*Sent via E-mail to chpost@dec.ny.gov*

August 1, 2014

Mr. Charles Post
NYSDEC Central Office
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7016

Re: 202-218 Morgan Avenue BCP Site (BCP Site #C224133)
Annual Post-Remediation Groundwater Monitoring
GHD File 8616480.5

Dear Mr. Post:

GHD Consulting Services Inc. (GHD) personnel completed annual post-remediation groundwater monitoring activities at the 202-218 Morgan Avenue Brownfield Cleanup Program (BCP) Site located in Brooklyn, Kings County, New York (Figure 1) in May 2014. The following is a summary of the findings of the annual monitoring activities, submitted on behalf of Rolling Frito-Lay Sales, LP (Frito-Lay).

## 1 Groundwater Monitoring Well Sampling Methods

One (1) round of groundwater samples were taken from the five (5) on-Site (MW-1, MW-2R, MW-4, MW-5, and MW-6) and two (2) off-Site (MW-7 and MW-8) groundwater monitoring wells shown on Figure 2 on May 14, 2014. Prior to purging the monitoring wells, a headspace reading was taken using a photoionization detector (PID), and depth to water and total depth of well measurements were taken using an electronic water level meter for use in calculating well volumes and static groundwater elevations. A minimum of three (3) well volumes were purged from each monitoring well using a peristaltic pump with dedicated tubing. Groundwater field parameters (i.e., temperature, conductivity, salinity, dissolved oxygen, pH, oxidation reduction potential, and turbidity) were recorded during purging using a YSI 6920 multi-parameter water quality meter with flow through cell.

Following purging, the peristaltic pump tubing was removed from the well and groundwater samples were taken using dedicated disposable bailers. Samples being analyzed for dissolved metals were field filtered through a 0.45-micron in-line filter prior to removing the peristaltic pump tubing. Samples were placed in containers provided by the laboratory, placed in ice filled coolers, and delivered to Alpha Analytical for analysis. Each groundwater sample was analyzed for:

- Target Compound List (TCL) volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B;
- Target Analyte List (TAL) metals (total) by EPA Methods 6020A and 7470A;

- TAL metals (dissolved) by EPA Methods 6020A and 7470A (samples MW-1, MW-7, and MW-8 only);
- Polychlorinated biphenyls (PCBs) by EPA Method 8082A;
- Alkalinity by EPA Method 2320B;
- Chloride by EPA Method 9251;
- Chemical Oxygen Demand (COD) by EPA Method 5220D;
- Biological Oxygen Demand (BOD) 5-day by EPA Method 5210B;
- Total Organic Carbon (TOC) by EPA Method 5310C; and
- Total Organic Halogens (TOX) by EPA Method 9020B (Alpha Analytical subcontracted this analysis to ALS Environmental).

One (1) duplicate sample and one (1) matrix spike/matrix spike duplicate (MS/MSD) sample were taken for quality control purposes from MW-5 and MW-1, respectively. The laboratory analytical reports for groundwater samples are included as Attachment A to this letter report, and field sampling logs are included as Attachment B. Groundwater monitoring well purge water was containerized in a 55-gallon steel drum staged onsite for proper disposal by Frito-Lay at a later date.

## 2 Groundwater Monitoring Well Sampling Results

Depth to water measurements were taken from each of the groundwater monitoring wells prior to purging (Table 1). This information was used to calculate groundwater elevations, which were used to create groundwater contour figures and infer groundwater flow direction (Figure 3). Based on the calculated groundwater elevations, it was inferred that groundwater flow at the time of sampling was generally to the southeast, towards English Kills; however, the Site is likely influenced by tidal activity, which means groundwater flow directions could fluctuate.

Groundwater field parameters were recorded every 4 minutes (which equates to approximately every 2.0 liters) during purging using a YSI 6920 multi-parameter water quality meter with flow-through cell (Table 2).

Laboratory analytical results for groundwater samples are compared to the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) Class GA ambient water quality standards and guidance values in Table 3. For comparison, the groundwater analytical baseline data collected in June 2013 following completion of remedial activities is also included on Table 3. Figures 4, 5, and 6 identify groundwater sample locations and analytes that exceed Class GA groundwater standards or guidance values for total metals, dissolved metals, and other analytes, respectively.

Laboratory analytical results for samples taken in May 2014 identified VOCs, total and dissolved metals, PCBs, and chloride concentrations that exceeded Class GA standards or guidance values, as follows:

| Sample Identification | Analyte | Class GA Standard or Guidance Value (ug/L) | Concentration (ug/L) | |
|---|---|---|---|---|
| | | | Post-Remediation Baseline (June 2013) | May 2014 |
| **On-Site Monitoring Wells** | | | | |
| **MW-1** | Vinyl chloride | 2 | 3.4 | 5.8 |
| | Total Antimony | 3 | Non-Detect | 6.53 |
| | Total Iron | 300 | 4,100 | 21,500 |
| | Total Lead | 25 | 6 | 147.4 |
| | Total Manganese | 300 | 3,000 | 2,458 |
| | Total Mercury | 0.7 | Non-Detect | 3.27 |
| | Total Sodium | 20,000 | 220,000 | 290,000 |
| | Dissolved Iron | 300 | 760 | 7,470 |
| | Dissolved Manganese | 300 | 2,500 | 2,728 |
| | Dissolved Sodium | 20,000 | 190,000 | 356,000 |
| | Total PCBs | 0.09 | Non-Detect | 1.184 |
| | Chloride | 250,000 | Not Reported | 600,000 |
| **MW-2R** | Total Antimony | 3 | Non-Detect | 3.12 |
| | Total Arsenic | 25 | Non-Detect | 36.36 |
| | Total Iron | 300 | 13,000 | 58,600 |
| | Total Lead | 25 | 120 | 73.18 |
| | Total Manganese | 300 | 900 | 374.7 |
| | Total Sodium | 20,000 | 770,000 | 142,000 |
| | Chloride | 250,000 | Not Reported | 270,000 |
| **MW-4** | Methyl tert butyl ether | 10 (G) | 34 | 13 |
| | Total Sodium | 20,000 | 250,000 | 303,000 |
| | Total PCBs | 0.09 | Non-Detect | 0.110 |
| | Chloride | 250,000 | Not Reported | 460,000 |
| **MW-5** | Total Antimony | 3 | Non-Detect | 3.01 |
| | Total Iron | 300 | 4,000 | 16,400 |
| | Total Lead | 25 | 6 | 244.8 |
| | Total Magnesium | 35,000 (G) | 120,000 | 147,000 |
| | Total Manganese | 300 | 950 | 1,020 |
| | Total Mercury | 0.7 | Non-Detect | 6.02 |
| | Total Sodium | 20,000 | 740,000 | 1,140,000 |
| | Total PCBs | 0.09 | Non-Detect | 0.449 |
| | Chloride | 20,000 | Not Reported | 1,400,000 |
| **MW-6** | Methyl tert butyl ether | 10 (G) | 16 | 14 |
| | Total Antimony | 3 | Non-Detect | 3.09 |

| Sample Identification | Analyte | Class GA Standard or Guidance Value (ug/L) | Concentration (ug/L) | |
|---|---|---|---|---|
| | | | Post-Remediation Baseline (June 2013) | May 2014 |
| | Total Iron | 300 | 650 | 5,820 |
| | Total Magnesium | 35,000 (G) | 47,000 | 46,300 |
| | Total Manganese | 300 | 640 | 1,526 |
| | Total Sodium | 20,000 | 410,000 | 385,000 |
| | Total PCBs | 0.09 | Non-Detect | 0.466 |
| | Chloride | 250,000 | Not Reported | 620,000 |
| **Off-Site Monitoring Wells** | | | | |
| **MW-7** | Benzene | 1 | 3.2 | 2.3 |
| | Vinyl chloride | 2 | 2.7 | 5.5 |
| | Trichloroethene | 5 | 1.4 | 9.1 |
| | cis-1,2-Dichloroethene | 5 | 1.2 | 16 |
| | Total Iron | 300 | 6,400 | 3,170 |
| | Total Manganese | 300 | 830 | 823.6 |
| | Total Nickel | 100 | 100 | 121.9 |
| | Total Sodium | 20,000 | 330,000 | 153,000 |
| | Dissolved Iron | 300 | 980 | 13,400 |
| | Dissolved Manganese | 300 | 950 | 853.8 |
| | Dissolved Nickel | 100 | 110 | 135.9 |
| | Dissolved Sodium | 20,000 | 380,000 | 175,000 |
| **MW-8** | Total Iron | 300 | 13,000 | 25,800 |
| | Total Manganese | 300 | 780 | 1,180 |
| | Total Sodium | 20,000 | 420,000 | 504,000 |
| | Dissolved Iron | 300 | 1,200 | 19,400 |
| | Dissolved Manganese | 300 | 810 | 971.8 |
| | Dissolved Sodium | 20,000 | 450,000 | 500,000 |
| | Chloride | 250,000 | Not Reported | 740,000 |

## 3 Conclusions

Based on summary data tables included in the Site Management Plan (SMP, Gannett Fleming Engineers, P.C., September 2013), post-remediation baseline groundwater samples for TCL VOCs, TAL metals (total), and TAL metals (dissolved) were taken from each of the groundwater monitoring wells on June 11 and 12, 2013, following completion of remedial activities at the Site. The most recent round of groundwater samples for PCBs was taken on November 20, 2009; and for alkalinity, chemical oxygen demand, biological oxygen demand, total organic carbon, and total organic halides were taken on July 11, 2011. These samples were taken prior to completion of remedial activities at the Site; however, these

concentrations were used as baseline concentrations for these analytes since no post-remediation baseline concentrations were reported in the SMP or Final Engineering Report (Gannett Fleming Engineers, P.C., October 2013).

The commonly identified VOCs in on-Site groundwater samples are vinyl chloride and methyl tert butyl ether. Concentrations of these analytes have remained fairly stable, or have slightly decreased, when compared to the post-remediation baseline sample results. Groundwater samples taken from off-Site (upgradient) groundwater monitoring well MW-7 identified the most analytes above standards, including benzene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride, concentrations of which have remained fairly stable, or have slightly increased, when compared to the post-remediation baseline sample results. With the exception of vinyl chloride, none of these analytes occur on-Site at concentrations above groundwater standards.

Chloride concentrations exceeded standards in every groundwater sample taken, with the exception of groundwater sample MW-7, which had a concentration equal to the standard. There were no previous concentrations reported for chloride, so it is not possible to determine how these concentrations compare to previous data. These elevated chloride concentrations are not unexpected due to the Site's proximity to English Kills, which likely contains brackish water that could impact the groundwater monitoring wells through tidal influences.

Exceedances of groundwater standards for metals are identified in total and dissolved samples taken from the on-Site and off-Site monitoring wells. The most commonly identified exceedances for total metals include antimony (4 of 7 samples), iron (6 of 7 samples), manganese (6 of 7 samples), and sodium (all samples). The most commonly identified exceedances for dissolved metals include iron (3 of 7 samples), manganese (3 of 7 samples), and sodium (3 of 7 samples). Concentrations of these analytes in both total and dissolved samples have remained fairly stable compared to post-remediation baseline results, with minor increases and decreases identified for certain analytes.

During the May 2014 sampling event, mercury was detected at concentrations that exceed standards in unfiltered samples taken from MW-1 and MW-5. These concentrations are higher than those identified during the post-remediation baseline sampling event; however, mercury concentrations have historically exceeded the groundwater standard in groundwater samples taken from across the Site (refer to tables in the SMP). Mercury was not detected at concentrations above laboratory detection limits in any of the dissolved (filtered) samples taken in May 2014, which is consistent with historical data and suggests that mercury concentrations might be a result of elevated turbidity in the samples.

The only other exceedance of standards identified in groundwater samples taken in May 2014 was for total PCBs in groundwater samples from 4 of the 7 monitoring wells (MW-1, MW-4, MW-5, and MW-6). These exceedances suggest an increase in PCB concentrations when compared to post-remediation baseline data, since post-remediation baseline data indicated non-detectable concentrations of PCBs in each sample analyzed. At this point, it is not possible to determine if these results indicate an increasing trend in PCB concentrations at the Site, or if it is an isolated occurrence. These concentrations will continue to be monitored during future sampling events to determine if further action related to PCBs may be required.

Due to the fact that there are only two rounds of post-remediation groundwater data available at this time, it is not possible to determine long-term trends in analyte concentrations. In addition, the variability of data

across the Site when compared to historic data (i.e. some parameters have decreased in concentration where others have increased) does not indicate a discernable trend in groundwater quality. After collection of the next round of groundwater samples, which is scheduled for May 2015, it will be possible to begin to determine groundwater quality trends and determine if further action is required.

Please contact me at 315-679-5838 or Ian McNamara at 315-679-5732 if you have any questions or require additional information.

Sincerely,

GHD CONSULTING SERVICES INC.

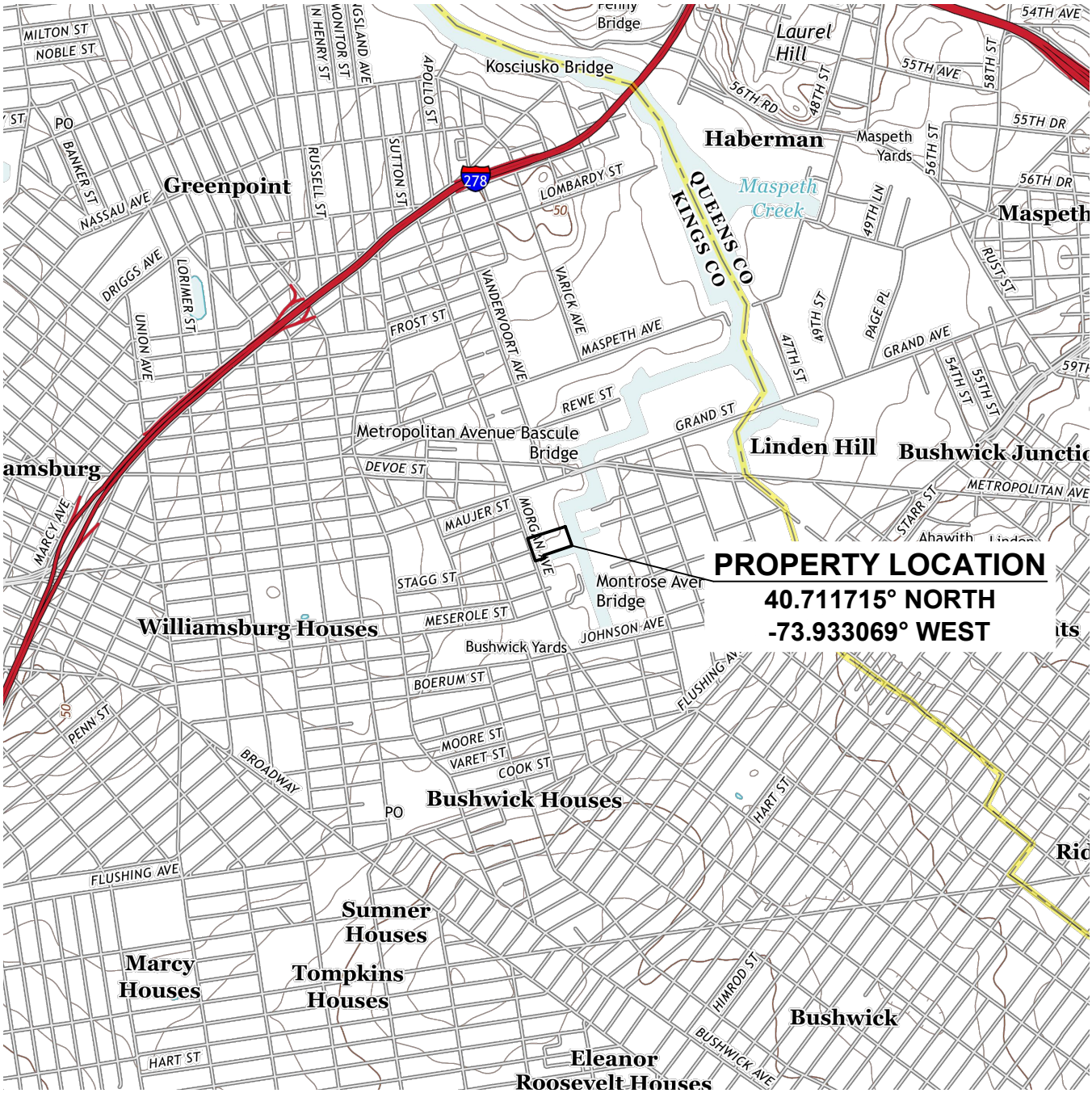
Damian J. Vanetti, PE
Principal Engineer – Environment

DJV/IAM/jfs
Enclosures
cc w/encs: Jim O'Brien – Frito-Lay
Clint Palmer – Frito-Lay
Cedric Robinson – Frito-Lay

Enclosures:

Figure 1 – Site Location Map
Figure 2 – Site Layout
Figure 3 – Groundwater Elevation and Flow Direction
Figure 4 – Exceedances of Groundwater Standards – Total Metals
Figure 5 – Exceedances of Groundwater Standards – Dissolved Metals
Figure 6 – Exceedances of Groundwater Standards – Other Analytes
Table 1 – Groundwater Elevation Data
Table 2 – Groundwater Field Parameter Data
Table 3 – Summary of Groundwater Sample Laboratory Analytical Results
Attachment A – Laboratory Analytical Reports
Attachment B – Groundwater Field Sampling Logs

# Figures





QUADRANGLE LOCATION

CONTOUR INTERVAL: 10 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLES:
BROOKLYN, NY (2013)
(U.S. GEOLOGICAL SURVEY WEBSITE)

0 1000 2000 3000 4000'

SCALE 1"=2000' AT ORIGINAL SIZE

N

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Frito-Lay
202-218 Morgan Ave., Brooklyn, NY BCP Site
BCP Site #C224133

Site Location Map

| | |
|---|---|
| Job Number | 86-16480 |
| Revision | A |
| Date | 05.29.2014 |

Figure 1

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 27 June 2014 - 1:37 PM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 1.dwg


0 30 60 90 120'

SCALE 1"=60' AT ORIGINAL SIZE

N

NOTES:
1. Aerial photograph is a 2012, 2-foot resolution, true color image taken from the U.S. Geological Survey website: http://earthexplorer.usgs.gov/
2. Site is not currently in the same configuration as the aerial photograph depicts. The majority of site is currently covered in asphalt pavement used for additional parking.
3. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.

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202-218 Morgan Ave., Brooklyn, NY BCP Site
BCP Site #C224133

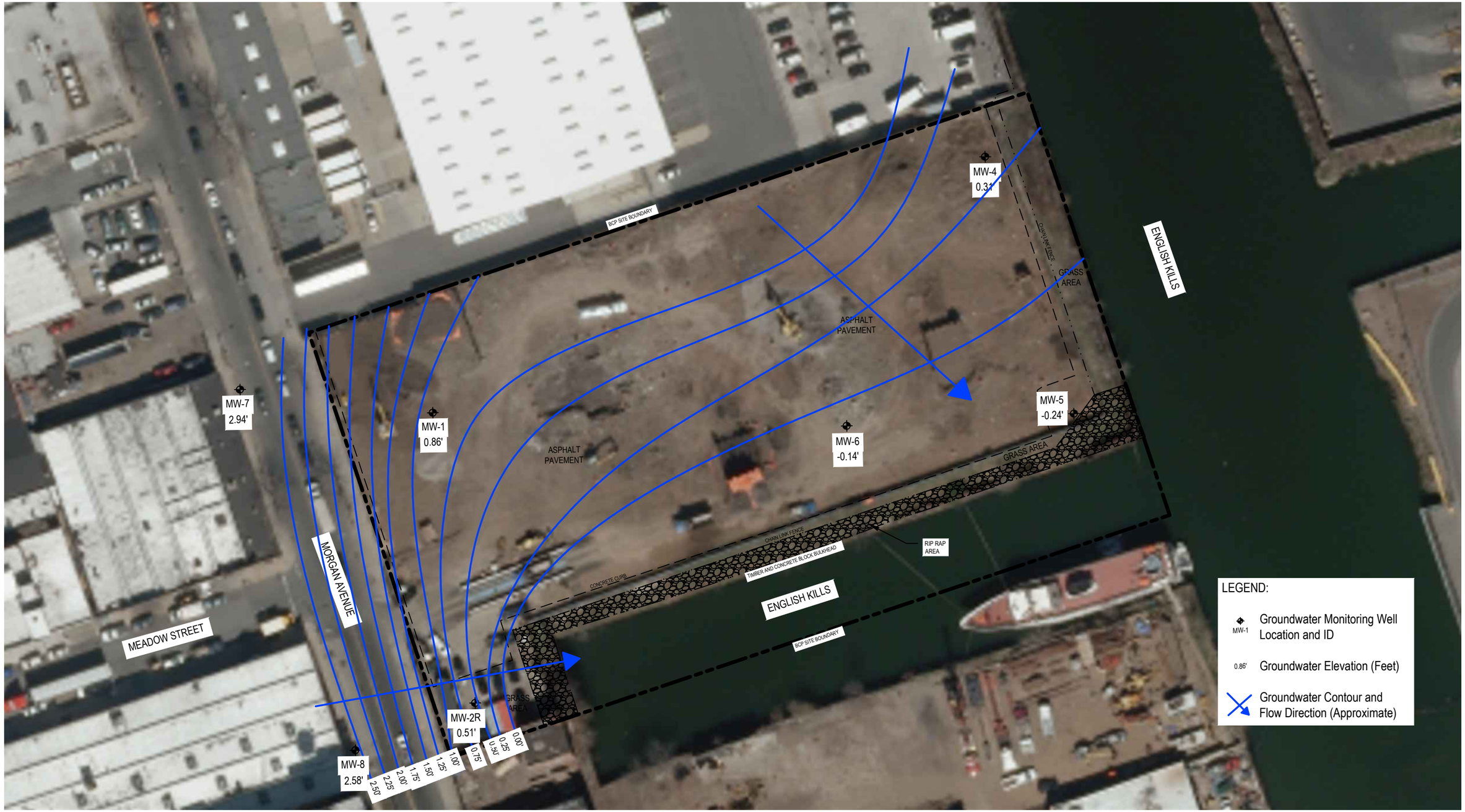
Site Layout

| | |
|---|---|
| Job Number | 86-16480 |
| Revision | A |
| Date | 06.27.2014 |

Figure 2

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 1 August 2014 - 12:19 PM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 2.dwg




0 30 60 90 120'

SCALE 1"=60' AT ORIGINAL SIZE

N

NOTES:
1. Aerial photograph is a 2012, 2-foot resolution, true color image taken from the U.S. Geological Survey website: http://earthexplorer.usgs.gov/
2. Site is not currently in the same configuration as the aerial photograph depicts. The majority of site is currently covered in asphalt pavement used for additional parking.
3. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.

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BCP Site #C224133

# Groundwater Elevation and Flow Direction

Job Number 86-16480
Revision A
Date 05.29.2014

# Figure 3

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 1 August 2014 - 11:33 AM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 3 - GW Elevation and Flow.dwg


0 30 60 90 120'

SCALE 1"=60' AT ORIGINAL SIZE

N

NOTES:
1. Only analytes that exceed groundwater standards are shown here. For complete results, see tables in report.
2. Aerial photograph is a 2012, 2-foot resolution, true color image taken from the U.S. Geological Survey website: http://earthexplorer.usgs.gov/
3. Site is not currently in the same configuration as the aerial photograph depicts. The majority of site is currently covered in asphalt pavement used for additional parking.
4. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.

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202-218 Morgan Ave., Brooklyn, NY BCP Site
BCP Site #C224133

# Exceedances of Groundwater Standards - Total Metals

Job Number 86-16480
Revision A
Date 05.29.2014

# Figure 4

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 1 August 2014 - 12:20 PM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 4 - GW Exceedances Total Metals.dwg


0 30 60 90 120'

SCALE 1"=60' AT ORIGINAL SIZE

N

NOTES:
1. Only analytes that exceed groundwater standards are shown here. For complete results, see tables in report.
2. Aerial photograph is a 2012, 2-foot resolution, true color image taken from the U.S. Geological Survey website: http://earthexplorer.usgs.gov/
3. Site is not currently in the same configuration as the aerial photograph depicts. The majority of site is currently covered in asphalt pavement used for additional parking.
4. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.

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BCP Site #C224133

# Exceedances of Groundwater Standards - Dissolved Metals

Job Number 86-16480
Revision A
Date 05.29.2014

# Figure 5

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 1 August 2014 - 12:20 PM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 5 - GW Exceedances Dissolved Metals.dwg


0 30 60 90 120'

SCALE 1"=60' AT ORIGINAL SIZE

N

NOTES:
1. Only analytes that exceed groundwater standards are shown here. For complete results, see tables in report.
2. Aerial photograph is a 2012, 2-foot resolution, true color image taken from the U.S. Geological Survey website: http://earthexplorer.usgs.gov/
3. Site is not currently in the same configuration as the aerial photograph depicts. The majority of site is currently covered in asphalt pavement used for additional parking.
4. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.

Frito-Lay
202-218 Morgan Ave., Brooklyn, NY BCP Site
BCP Site #C224133

# Exceedances of Groundwater Standards - Other Analytes

Job Number 86-16480
Revision A
Date 05.29.2014

# Figure 6

One Remington Park Drive, Cazenovia NY 13035 USA **T** 1 315 679 5800 **F** 1 315 679 5801 **E** cazmail@ghd.com **W** www.ghd.com

Plot Date: 1 August 2014 - 12:21 PM Cad File No: G:\86\16480\202-218 Morgan Ave Brooklyn BCP Site\Annual Groundwater Sampling\May 2014\Figures\Figure 6 - GW Exceedances Other Analytes.dwg

# Tables

Table 1: (Page 1 of 1) Groundwater Elevation Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

| Monitoring Well I.D. | Date | Reference Point | Reference Elevation (feet) | DTW (feet) | DOW (feet) | Water Elevation (feet) | Well Volume (gal) |
|---|---|---|---|---|---|---|---|
| **MW-1** | 2009 | Top of PVC | 14.32 | - | - | 1.74 | - |
| | 2011 | | | - | - | 1.54 | - |
| | 5/14/2014 | | | 9.07 | 16.33 | 5.25 | 1.16 |
| **MW-2R** | 2009 | Top of PVC | 13.41 | - | - | 2.71 | - |
| | 2011 | | | - | - | 0.40 | - |
| | 5/14/2014 | | | 9.75 | 17.92 | 3.66 | 1.31 |
| **MW-4** | 2009 | Top of PVC | 16.01 | - | - | 2.04 | - |
| | 2011 | | | - | - | 0.54 | - |
| | 5/14/2014 | | | 9.91 | 16.48 | 6.10 | 1.05 |
| **MW-5** | 2009 | Top of PVC | 13.32 | - | - | 1.76 | - |
| | 2011 | | | - | - | -0.80 | - |
| | 5/14/2014 | | | 11.01 | 18.69 | 2.31 | 1.23 |
| **MW-6** | 2009 | Top of PVC | 15.51 | - | - | 1.11 | - |
| | 2011 | | | - | - | 0.80 | - |
| | 5/14/2014 | | | 10.36 | 17.05 | 5.15 | 1.07 |
| **MW-7** | 2009 | Top of PVC | 11.11 | - | - | 2.92 | - |
| | 2011 | | | - | - | 1.48 | - |
| | 5/14/2014 | | | 8.17 | 15.42 | 2.94 | 1.16 |
| **MW-8** | 2009 | Top of PVC | 11.43 | - | - | 2.50 | - |
| | 2011 | | | - | - | 2.32 | - |
| | 5/14/2014 | | | 8.85 | 14.45 | 2.58 | 0.90 |

DTW - depth to water

DOW - depth of well

DTW and DOW measurements taken prior to purging using a electronic water level meter

2009 and 2011 groundwater elevation information taken from the Site Management Plan prepared by Gannett Fleming (September 2013)

Reference elevations taken from as-built plan prepared by PS&S (August 21, 2013)

Table 2: (Page 1 of 1) Groundwater Field Parameter Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

| Well I.D. | Date | Time | Temp ( °C ) | Conductivity (mS/cm) | Salinity (%) | Dissolved Oxygen (%) | pH (units) | ORP (mV) | Turbidity (NTU) | Amount Purged (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 5/14/2014 | 16:20 | 16.23 | 2.187 | 1.12 | 1.07 | 6.90 | -111.3 | 15.1 | 3.50 | Purged 3.50 gallons, water tinted black, petroleum like sheen, sulfur odor |
| | | 16:24 | 15.00 | 2.554 | 1.33 | 0.21 | 6.80 | -108.8 | 528.5 | | |
| | | 16:28 | 14.54 | 2.683 | 1.40 | 0.12 | 6.77 | -111.8 | 392.3 | | |
| | | 16:32 | 14.51 | 2.722 | 1.42 | 0.10 | 6.76 | -116.5 | 243.5 | | |
| | | 16:36 | 14.48 | 2.724 | 1.42 | 0.08 | 6.77 | -120.7 | 127.1 | | |
| | | 16:40 | 14.43 | 2.734 | 1.43 | 0.05 | 6.78 | -126.4 | 189.5 | | |
| | | 16:44 | 14.43 | 2.731 | 1.42 | 0.04 | 6.78 | -125.8 | 94.1 | | |
| MW-2R | 5/14/2014 | 13:25 | 17.15 | 1.762 | 0.88 | 1.26 | 7.53 | -134.3 | 892.4 | 5.00 | Purged 5.00 gallons, water clear, slight petroleum like sheen, slight sulfur odor |
| | | 13:29 | 15.09 | 1.534 | 0.78 | 0.20 | 7.00 | -123.7 | 703.5 | | |
| | | 13:33 | 14.59 | 1.532 | 0.78 | 0.11 | 6.94 | -118.2 | 604.9 | | |
| | | 13:37 | 14.56 | 1.543 | 0.78 | 0.30 | 6.98 | -113.1 | 138.8 | | |
| | | 13:41 | 14.61 | 1.553 | 0.79 | 0.12 | 6.97 | -114.5 | 160.1 | | |
| | | 13:45 | 14.53 | 1.569 | 0.80 | 0.07 | 6.99 | -119.6 | 136.6 | | |
| | | 13:49 | 14.49 | 1.583 | 0.80 | 0.04 | 6.99 | -121.0 | 38.3 | | |
| | | 13:53 | 14.40 | 1.607 | 0.82 | 0.03 | 6.99 | -121.4 | 15.1 | | |
| | | 13:57 | 14.38 | 1.609 | 0.82 | 0.03 | 7.00 | -121.3 | 8.4 | | |
| MW-4 | 5/14/2014 | 10:24 | 14.38 | 3.230 | 1.70 | 10.72 | 9.21 | 2.7 | 2.5 | 3.50 | Purged 3.50 gallons, water clear, no sheen, no odor |
| | | 10:28 | 13.67 | 3.174 | 1.67 | 0.06 | 10.31 | -235.9 | 127.8 | | |
| | | 10:32 | 13.66 | 3.192 | 1.68 | 0.01 | 10.74 | -247.4 | 29.1 | | |
| | | 10:36 | 13.62 | 3.164 | 1.66 | -0.04 | 11.19 | -262.1 | 8.3 | | |
| | | 10:40 | 13.67 | 3.126 | 1.64 | -0.05 | 11.29 | -263.7 | 4.7 | | |
| | | 10:44 | 13.67 | 3.080 | 1.62 | -0.06 | 11.34 | -269.2 | 3.3 | | |
| | | 10:48 | 13.69 | 3.013 | 1.58 | -0.06 | 11.33 | -271.8 | 1.9 | | |
| MW-5 | 5/14/2014 | 11:20 | 15.76 | 8.314 | 4.66 | 1.48 | 8.47 | -112.4 | 191.4 | 4.00 | Purged 4.00 gallons, water clear, no sheen, no odor |
| | | 11:24 | 13.73 | 8.224 | 4.60 | 0.29 | 7.26 | -132.2 | 56.3 | | |
| | | 11:28 | 13.55 | 8.207 | 4.58 | 0.16 | 7.10 | -155.3 | 14.6 | | |
| | | 11:32 | 13.27 | 8.271 | 4.62 | 0.08 | 7.05 | -159.1 | 8.6 | | |
| | | 11:36 | 13.38 | 8.280 | 4.63 | 0.04 | 7.03 | -158.2 | 4.3 | | |
| | | 11:40 | 13.07 | 8.328 | 4.66 | 0.01 | 7.02 | -157.7 | 2.6 | | |
| | | 11:44 | 13.09 | 8.331 | 4.66 | 0.00 | 7.02 | -156.4 | 1.7 | | |
| | | 11:48 | 13.08 | 8.336 | 4.66 | 0.00 | 7.01 | -155.0 | 1.0 | | |
| MW-6 | 5/14/2014 | 12:28 | 17.08 | 4.457 | 2.38 | 0.93 | 7.56 | -236.4 | 165.7 | 3.50 | Purged 3.50 gallons, water clear, no sheen, sulfur odor |
| | | 12:32 | 15.81 | 4.174 | 2.23 | 0.14 | 7.29 | -297.1 | 10.3 | | |
| | | 12:36 | 15.73 | 3.954 | 2.10 | 0.07 | 7.30 | -296.6 | 2.9 | | |
| | | 12:40 | 15.57 | 3.861 | 2.05 | 0.04 | 7.33 | -298.4 | 1.4 | | |
| | | 12:44 | 15.56 | 3.798 | 2.02 | 0.03 | 7.34 | -298.4 | 0.6 | | |
| | | 12:48 | 15.45 | 3.751 | 1.99 | 0.01 | 7.33 | -294.5 | 0.1 | | |
| | | 12:52 | 15.50 | 3.734 | 1.98 | 0.01 | 7.31 | -296.0 | 1.1 | | |
| MW-7 | 5/14/2014 | 14:38 | 14.73 | 1.390 | 0.70 | 0.85 | 7.54 | -116.7 | 885.7 | 3.50 | Purged 3.50 gallons, water cloudy, rusty orange color, no sheen, no odor |
| | | 14:42 | 14.68 | 1.312 | 0.66 | 0.27 | 7.22 | -109.0 | 513.7 | | |
| | | 14:46 | 13.91 | 1.331 | 0.67 | 0.13 | 7.19 | -107.8 | 447.2 | | |
| | | 14:50 | 13.88 | 1.362 | 0.69 | 0.12 | 7.20 | -109.1 | 879.7 | | |
| | | 14:54 | 13.73 | 1.407 | 0.71 | 0.07 | 7.22 | -112.8 | 313.0 | | |
| | | 14:58 | 13.74 | 1.442 | 0.73 | 0.05 | 7.24 | -116.4 | 240.5 | | |
| | | 15:02 | 13.71 | 1.480 | 0.75 | 0.04 | 7.26 | -119.3 | 226.4 | | |
| MW-8 | 5/14/2014 | 15:29 | 13.85 | 3.506 | 1.85 | 1.01 | 6.83 | -68.5 | 194.1 | 2.75 | Purged 2.75 gallons, water cloudy, rusty orange color, no sheen, no odor |
| | | 15:33 | 12.91 | 3.470 | 1.83 | 0.30 | 6.68 | -63.6 | 160.3 | | |
| | | 15:37 | 12.88 | 3.397 | 1.79 | 0.24 | 6.65 | -63.7 | 132.0 | | |
| | | 15:41 | 12.64 | 3.427 | 1.81 | 0.20 | 6.64 | -67.9 | 103.8 | | |
| | | 15:45 | 12.55 | 3.515 | 1.86 | 0.11 | 6.66 | -82.8 | 315.6 | | |
| | | 15:49 | 12.51 | 3.534 | 1.87 | 0.04 | 6.68 | -92.1 | 287.0 | | |

Field parameters collected during purging using a YSI 6920 with flow thru cell and GeoPump2 peristaltic pump

Table 3: (Page 1 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-1 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | R.L. | | | R.L. | |
| Methylene chloride | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethane | 5 | U | 1 | | U | 2.5 | |
| Chloroform | 7 | U | 1 | | U | 2.5 | |
| Carbon tetrachloride | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichloropropane | 1 | U | 1 | | U | 1 | |
| Dibromochloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| 1,1,2-Trichloroethane | 1 | U | 1 | | U | 1.5 | |
| Tetrachloroethene | 5 | U | 1 | | U | 0.5 | |
| Chlorobenzene | 5 | 1 | | | 0.72 | J | |
| Trichlorofluoromethane | 5 | UJ | 1 | | U | 2.5 | |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | | U | 0.5 | |
| 1,1,1-Trichloroethane | 5 | U | 1 | | U | 2.5 | |
| Bromodichloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| Bromoform | 50 (G) | UJ | 1 | | U | 2 | |
| 1,1,2,2-Tetrachloroethane | 5 | U | 1 | | U | 0.5 | |
| Benzene | 1 | U | 0.5 | | U | 0.5 | |
| Toluene | 5 | U | 1 | | U | 2.5 | |
| Ethylbenzene | 5 | U | 1 | | U | 2.5 | |
| Chloromethane | - | U | 1 | | U | 2.5 | |
| Bromomethane | 5 | U | 1 | | U | 2.5 | |
| Vinyl chloride | 2 | **3.4** | | | **5.8** | | |
| Chloroethane | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethene | 5 | U | 1 | | U | 0.5 | |
| trans-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Trichloroethene | 5 | UJ | 1 | | 0.17 | J | |
| 1,2-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| 1,3-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,4-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| Methyl tert butyl ether | 10 (G) | 1.5 | | | 4.6 | | 2.5 |
| p/m-Xylene | 5 | - | | | | U | |
| o-Xylene | 5 | - | | | | U | |
| cis-1,2-Dichloroethene | 5 | U | 1 | | 2.1 | J | |
| Styrene | 5 | U | 1 | | | U | |
| Dichlorodifluoromethane | 5 | U | 1 | | | U | |
| Acetone | 50 (G) | U | 10 | | 2.7 | J | |
| Carbon disulfide | 60 (G) | U | 1 | | | U | |
| 2-Butanone | 50 (G) | U | 1 | | | U | |
| 4-Methyl-2-pentanone | - | U | 1 | | | U | |
| 2-Hexanone | 50 (G) | U | 1 | | | U | |
| Bromochloromethane | 5 | - | | | | U | |
| 1,2-Dibromoethane | 5 | U | 1 | | | U | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | | | U | |
| Isopropylbenzene | 5 | UJ | 1 | | | U | |
| 1,2,3-Trichlorobenzene | 5 | - | | | | U | |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | | | U | |
| Methyl Acetate | - | - | | | | U | |
| Cyclohexane | - | U | 1 | | | U | |
| 1,4-Dioxane | - | - | | | | U | |
| Freon-113 | 5 | U | 1 | | | U | |
| Methyl cyclohexane | - | U | 1 | | | U | |
| Total Xylenes | 5 | UJ | 1 | | - | | |
| Total VOCs | | 5.9 | | | 16.09 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

NS - Not sampled

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 2 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-2R | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | R.L. | | | R.L. | |
| Methylene chloride | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethane | 5 | U | 1 | | U | 2.5 | |
| Chloroform | 7 | U | 1 | | U | 2.5 | |
| Carbon tetrachloride | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichloropropane | 1 | U | 1 | | U | 1 | |
| Dibromochloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| 1,1,2-Trichloroethane | 1 | U | 1 | | U | 1.5 | |
| Tetrachloroethene | 5 | U | 1 | | U | 0.5 | |
| Chlorobenzene | 5 | 1 | | | U | 2.5 | |
| Trichlorofluoromethane | 5 | UJ | 1 | | U | 2.5 | |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | | U | 0.5 | |
| 1,1,1-Trichloroethane | 5 | U | 1 | | U | 2.5 | |
| Bromodichloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| Bromoform | 50 (G) | UJ | 1 | | U | 2 | |
| 1,1,2,2-Tetrachloroethane | 5 | U | 1 | | U | 0.5 | |
| Benzene | 1 | U | 0.5 | | U | 0.5 | |
| Toluene | 5 | U | 1 | | U | 2.5 | |
| Ethylbenzene | 5 | U | 1 | | U | 2.5 | |
| Chloromethane | - | U | 1 | | U | 2.5 | |
| Bromomethane | 5 | U | 1 | | U | 2.5 | |
| Vinyl chloride | 2 | **4.7** | | | U | 1 | |
| Chloroethane | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethene | 5 | U | 1 | | U | 0.5 | |
| trans-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Trichloroethene | 5 | UJ | 1 | | U | 0.5 | |
| 1,2-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| 1,3-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,4-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| Methyl tert butyl ether | 10 (G) | 1.6 | | 1.6 | J | | |
| p/m-Xylene | 5 | - | | | U | 2.5 | |
| o-Xylene | 5 | - | | | U | 2.5 | |
| cis-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Styrene | 5 | U | 1 | | U | 2.5 | |
| Dichlorodifluoromethane | 5 | U | 1 | | U | 5 | |
| Acetone | 50 (G) | U | 10 | 2.3 | J | | |
| Carbon disulfide | 60 (G) | U | 1 | | U | 5 | |
| 2-Butanone | 50 (G) | U | 1 | | U | 5 | |
| 4-Methyl-2-pentanone | - | U | 1 | | U | 5 | |
| 2-Hexanone | 50 (G) | U | 1 | | U | 5 | |
| Bromochloromethane | 5 | - | | | U | 2.5 | |
| 1,2-Dibromoethane | 5 | U | 1 | | U | 2 | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | | U | 2.5 | |
| Isopropylbenzene | 5 | UJ | 1 | | U | 2.5 | |
| 1,2,3-Trichlorobenzene | 5 | - | | | U | 2.5 | |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | | U | 2.5 | |
| Methyl Acetate | - | - | | | U | 2 | |
| Cyclohexane | - | U | 1 | | U | 10 | |
| 1,4-Dioxane | - | - | | | U | 250 | |
| Freon-113 | 5 | U | 1 | | U | 2.5 | |
| Methyl cyclohexane | - | U | 1 | | U | 10 | |
| Total Xylenes | 5 | UJ | 1 | - | | | |
| Total VOCs | | 7.3 | | 3.9 | | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

NS - Not sampled

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 3 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | |
|---|---|---|---|---|---|
| | | MW-4 | | | |
| Date Sampled | | Baseline | | 5/14/2014 | |
| **VOCs by EPA Method 8260B** | | | R.L. | | R.L. |
| Methylene chloride | 5 | U | 1 | U | 2.5 |
| 1,1-Dichloroethane | 5 | U | 1 | U | 2.5 |
| Chloroform | 7 | U | 1 | U | 2.5 |
| Carbon tetrachloride | 5 | U | 1 | U | 0.5 |
| 1,2-Dichloropropane | 1 | U | 1 | U | 1 |
| Dibromochloromethane | 50 (G) | U | 1 | U | 0.5 |
| 1,1,2-Trichloroethane | 1 | U | 1 | U | 1.5 |
| Tetrachloroethene | 5 | U | 1 | U | 0.5 |
| Chlorobenzene | 5 | U | 1 | U | 2.5 |
| Trichlorofluoromethane | 5 | UJ | 1 | U | 2.5 |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | U | 0.5 |
| 1,1,1-Trichloroethane | 5 | U | 1 | U | 2.5 |
| Bromodichloromethane | 50 (G) | U | 1 | U | 0.5 |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | U | 0.5 |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | U | 0.5 |
| Bromoform | 50 (G) | UJ | 1 | U | 2 |
| 1,1,2,2-Tetrachloroethane | 5 | U | 1 | U | 0.5 |
| Benzene | 1 | U | 0.5 | U | 0.5 |
| Toluene | 5 | U | 1 | U | 2.5 |
| Ethylbenzene | 5 | U | 1 | U | 2.5 |
| Chloromethane | - | U | 1 | U | 2.5 |
| Bromomethane | 5 | UJ | 1 | U | 2.5 |
| Vinyl chloride | 2 | U | 1 | U | 1 |
| Chloroethane | 5 | U | 1 | U | 2.5 |
| 1,1-Dichloroethene | 5 | U | 1 | U | 0.5 |
| trans-1,2-Dichloroethene | 5 | U | 1 | U | 2.5 |
| Trichloroethene | 5 | U | 1 | U | 0.5 |
| 1,2-Dichlorobenzene | 3 | U | 1 | U | 2.5 |
| 1,3-Dichlorobenzene | 3 | U | 1 | U | 2.5 |
| 1,4-Dichlorobenzene | 3 | U | 1 | U | 2.5 |
| Methyl tert butyl ether | 10 (G) | **34** | | **13** | |
| p/m-Xylene | 5 | - | | U | 2.5 |
| o-Xylene | 5 | - | | U | 2.5 |
| cis-1,2-Dichloroethene | 5 | U | 1 | U | 2.5 |
| Styrene | 5 | U | 1 | U | 2.5 |
| Dichlorodifluoromethane | 5 | UJ | 1 | U | 5 |
| Acetone | 50 (G) | 43 | | 5 | |
| Carbon disulfide | 60 (G) | U | 1 | U | 5 |
| 2-Butanone | 50 (G) | U | 1 | U | 5 |
| 4-Methyl-2-pentanone | - | U | 1 | U | 5 |
| 2-Hexanone | 50 (G) | U | 1 | U | 5 |
| Bromochloromethane | 5 | - | | U | 2.5 |
| 1,2-Dibromoethane | 5 | U | 1 | U | 2 |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | U | 2.5 |
| Isopropylbenzene | 5 | U | 1 | U | 2.5 |
| 1,2,3-Trichlorobenzene | 5 | - | | U | 2.5 |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | U | 2.5 |
| Methyl Acetate | - | - | | U | 2 |
| Cyclohexane | - | U | 1 | U | 10 |
| 1,4-Dioxane | - | - | | U | 250 |
| Freon-113 | 5 | U | 1 | U | 2.5 |
| Methyl cyclohexane | - | U | 1 | U | 10 |
| Total Xylenes | 5 | U | 1 | - | |
| Total VOCs | | 77 | | 18 | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

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R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 4 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-5 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | R.L. | | | R.L. | |
| Methylene chloride | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethane | 5 | U | 1 | | U | 2.5 | |
| Chloroform | 7 | U | 1 | | U | 2.5 | |
| Carbon tetrachloride | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichloropropane | 1 | U | 1 | | U | 1 | |
| Dibromochloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| 1,1,2-Trichloroethane | 1 | U | 1 | | U | 1.5 | |
| Tetrachloroethene | 5 | U | 1 | | U | 0.5 | |
| Chlorobenzene | 5 | U | 1 | | U | 2.5 | |
| Trichlorofluoromethane | 5 | UJ | 1 | | U | 2.5 | |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | | U | 0.5 | |
| 1,1,1-Trichloroethane | 5 | U | 1 | | U | 2.5 | |
| Bromodichloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| Bromoform | 50 (G) | UJ | 1 | | U | 2 | |
| 1,1,2,2-Tetrachloroethane | 5 | U | 1 | | U | 0.5 | |
| Benzene | 1 | U | 0.5 | | U | 0.5 | |
| Toluene | 5 | U | 1 | | U | 2.5 | |
| Ethylbenzene | 5 | U | 1 | | U | 2.5 | |
| Chloromethane | - | U | 1 | | U | 2.5 | |
| Bromomethane | 5 | UJ | 1 | | U | 2.5 | |
| Vinyl chloride | 2 | U | 1 | | U | 1 | |
| Chloroethane | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethene | 5 | U | 1 | | U | 0.5 | |
| trans-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Trichloroethene | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,3-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,4-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| Methyl tert butyl ether | 10 (G) | **16** | | | 9.3 | | |
| p/m-Xylene | 5 | - | | | U | 2.5 | |
| o-Xylene | 5 | - | | | U | 2.5 | |
| cis-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Styrene | 5 | U | 1 | | U | 2.5 | |
| Dichlorodifluoromethane | 5 | UJ | 1 | | U | 5 | |
| Acetone | 50 (G) | U | 10 | | 2.2 | J | |
| Carbon disulfide | 60 (G) | U | 1 | | U | 5 | |
| 2-Butanone | 50 (G) | U | 1 | | U | 5 | |
| 4-Methyl-2-pentanone | - | U | 1 | | U | 5 | |
| 2-Hexanone | 50 (G) | U | 1 | | U | 5 | |
| Bromochloromethane | 5 | - | | | U | 2.5 | |
| 1,2-Dibromoethane | 5 | U | 1 | | U | 2 | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | | U | 2.5 | |
| Isopropylbenzene | 5 | U | 1 | | U | 2.5 | |
| 1,2,3-Trichlorobenzene | 5 | - | | | U | 2.5 | |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | | U | 2.5 | |
| Methyl Acetate | - | - | | | U | 2 | |
| Cyclohexane | - | U | 1 | | U | 10 | |
| 1,4-Dioxane | - | - | | | U | 250 | |
| Freon-113 | 5 | U | 1 | | U | 2.5 | |
| Methyl cyclohexane | - | U | 1 | | U | 10 | |
| Total Xylenes | 5 | U | 1 | | - | | |
| Total VOCs | | 16 | | | 11.5 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

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R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 5 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-6 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | R.L. | | | R.L. | |
| Methylene chloride | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethane | 5 | U | 1 | | U | 2.5 | |
| Chloroform | 7 | U | 1 | | U | 2.5 | |
| Carbon tetrachloride | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichloropropane | 1 | U | 1 | | U | 1 | |
| Dibromochloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| 1,1,2-Trichloroethane | 1 | U | 1 | | U | 1.5 | |
| Tetrachloroethene | 5 | U | 1 | | U | 0.5 | |
| Chlorobenzene | 5 | U | 1 | | U | 2.5 | |
| Trichlorofluoromethane | 5 | UJ | 1 | | U | 2.5 | |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | | U | 0.5 | |
| 1,1,1-Trichloroethane | 5 | U | 1 | | U | 2.5 | |
| Bromodichloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| Bromoform | 50 (G) | UJ | 1 | | U | 2 | |
| 1,1,2,2-Tetrachloroethane | 5 | U | 1 | | U | 0.5 | |
| Benzene | 1 | **1.1** | | | U | 0.5 | |
| Toluene | 5 | 4.4 | | | U | 2.5 | |
| Ethylbenzene | 5 | 1.3 | | | U | 2.5 | |
| Chloromethane | - | U | 1 | | U | 2.5 | |
| Bromomethane | 5 | UJ | 1 | | U | 2.5 | |
| Vinyl chloride | 2 | U | 1 | | U | 1 | |
| Chloroethane | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethene | 5 | U | 1 | | U | 0.5 | |
| trans-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Trichloroethene | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,3-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,4-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| Methyl tert butyl ether | 10 (G) | **16** | | | **14** | | |
| p/m-Xylene | 5 | - | | | U | | |
| o-Xylene | 5 | - | | | U | | |
| cis-1,2-Dichloroethene | 5 | U | 1 | | U | | |
| Styrene | 5 | U | 1 | | U | | |
| Dichlorodifluoromethane | 5 | UJ | 1 | | U | | |
| Acetone | 50 (G) | 12 | | | 3.7 | J | |
| Carbon disulfide | 60 (G) | U | 1 | | U | | |
| 2-Butanone | 50 (G) | U | 1 | | U | | |
| 4-Methyl-2-pentanone | - | U | 1 | | U | | |
| 2-Hexanone | 50 (G) | U | 1 | | U | | |
| Bromochloromethane | 5 | - | | | U | | |
| 1,2-Dibromoethane | 5 | U | 1 | | U | | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | | U | | |
| Isopropylbenzene | 5 | U | 1 | | U | | |
| 1,2,3-Trichlorobenzene | 5 | - | | | U | | |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | | U | | |
| Methyl Acetate | - | - | | | U | | |
| Cyclohexane | - | U | 1 | | U | | |
| 1,4-Dioxane | - | - | | | U | | |
| Freon-113 | 5 | U | 1 | | U | | |
| Methyl cyclohexane | - | U | 1 | | U | | |
| Total Xylenes | 5 | **5.2** | | | - | | |
| Total VOCs | | 34.8 | | | 17.7 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

NS - Not sampled

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 6 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-7 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | | R.L. | | | R.L. |
| Methylene chloride | 5 | | U | 1 | | U | 2.5 |
| 1,1-Dichloroethane | 5 | | U | 1 | 0.75 | J | |
| Chloroform | 7 | | U | 1 | | U | 2.5 |
| Carbon tetrachloride | 5 | | U | 1 | | U | 0.5 |
| 1,2-Dichloropropane | 1 | | U | 1 | | U | 1 |
| Dibromochloromethane | 50 (G) | | U | 1 | | U | 0.5 |
| 1,1,2-Trichloroethane | 1 | | U | 1 | | U | 1.5 |
| Tetrachloroethene | 5 | | U | 1 | 2.2 | | |
| Chlorobenzene | 5 | 1 | | | | U | 2.5 |
| Trichlorofluoromethane | 5 | | UJ | 1 | | U | 2.5 |
| 1,2-Dichloroethane | 0.6 | | U | 0.5 | | U | 0.5 |
| 1,1,1-Trichloroethane | 5 | | U | 1 | | U | 2.5 |
| Bromodichloromethane | 50 (G) | | U | 1 | | U | 0.5 |
| trans-1,3-Dichloropropene | 0.4 | | U | 1 | | U | 0.5 |
| cis-1,3-Dichloropropene | 0.4 | | U | 1 | | U | 0.5 |
| Bromoform | 50 (G) | | UJ | 1 | | U | 2 |
| 1,1,2,2-Tetrachloroethane | 5 | | U | 1 | | U | 0.5 |
| Benzene | 1 | **3.2** | | | **2.3** | | |
| Toluene | 5 | | U | 1 | | U | 2.5 |
| Ethylbenzene | 5 | | U | 1 | | U | 2.5 |
| Chloromethane | - | | U | 1 | | U | 2.5 |
| Bromomethane | 5 | | U | 1 | | U | 2.5 |
| Vinyl chloride | 2 | **2.7** | | | **5.5** | | |
| Chloroethane | 5 | | U | 1 | | U | 2.5 |
| 1,1-Dichloroethene | 5 | | U | 1 | | U | 0.5 |
| trans-1,2-Dichloroethene | 5 | | U | 1 | | U | 2.5 |
| Trichloroethene | 5 | 1.4 | J | | **9.1** | | |
| 1,2-Dichlorobenzene | 3 | | UJ | 1 | | U | 2.5 |
| 1,3-Dichlorobenzene | 3 | | U | 1 | | U | 2.5 |
| 1,4-Dichlorobenzene | 3 | | UJ | 1 | | U | 2.5 |
| Methyl tert butyl ether | 10 (G) | | U | 0.5 | | U | 2.5 |
| p/m-Xylene | 5 | - | | | | U | 2.5 |
| o-Xylene | 5 | - | | | | U | 2.5 |
| cis-1,2-Dichloroethene | 5 | 1.2 | | | **16** | | |
| Styrene | 5 | | U | 1 | | U | 2.5 |
| Dichlorodifluoromethane | 5 | | U | 1 | | U | 5 |
| Acetone | 50 (G) | | U | 10 | 1.6 | J | |
| Carbon disulfide | 60 (G) | | U | 1 | | U | 5 |
| 2-Butanone | 50 (G) | | U | 1 | | U | 5 |
| 4-Methyl-2-pentanone | - | | U | 1 | | U | 5 |
| 2-Hexanone | 50 (G) | | U | 1 | | U | 5 |
| Bromochloromethane | 5 | - | | | | U | 2.5 |
| 1,2-Dibromoethane | 5 | | U | 1 | | U | 2 |
| 1,2-Dibromo-3-chloropropane | 0.04 | | UJ | 1 | | U | 2.5 |
| Isopropylbenzene | 5 | | UJ | 1 | | U | 2.5 |
| 1,2,3-Trichlorobenzene | 5 | - | | | | U | 2.5 |
| 1,2,4-Trichlorobenzene | 5 | | UJ | 1 | | U | 2.5 |
| Methyl Acetate | - | - | | | | U | 2 |
| Cyclohexane | - | | U | 1 | | U | 10 |
| 1,4-Dioxane | - | - | | | | U | 250 |
| Freon-113 | 5 | | U | 1 | | U | 2.5 |
| Methyl cyclohexane | - | | U | 1 | | U | 10 |
| Total Xylenes | 5 | | UJ | 1 | - | | |
| Total VOCs | | 9.5 | | | 37.45 | | |

All values reported as ug/L (parts per billion)

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R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 7 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-8 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **VOCs by EPA Method 8260B** | | | R.L. | | | R.L. | |
| Methylene chloride | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethane | 5 | U | 1 | | U | 2.5 | |
| Chloroform | 7 | U | 1 | | U | 2.5 | |
| Carbon tetrachloride | 5 | U | 1 | | U | 0.5 | |
| 1,2-Dichloropropane | 1 | U | 1 | | U | 1 | |
| Dibromochloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| 1,1,2-Trichloroethane | 1 | U | 1 | | U | 1.5 | |
| Tetrachloroethene | 5 | U | 1 | | U | 0.5 | |
| Chlorobenzene | 5 | U | 1 | | U | 2.5 | |
| Trichlorofluoromethane | 5 | UJ | 1 | | U | 2.5 | |
| 1,2-Dichloroethane | 0.6 | U | 0.5 | | U | 0.5 | |
| 1,1,1-Trichloroethane | 5 | UJ | 1 | | U | 2.5 | |
| Bromodichloromethane | 50 (G) | U | 1 | | U | 0.5 | |
| trans-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| cis-1,3-Dichloropropene | 0.4 | U | 1 | | U | 0.5 | |
| Bromoform | 50 (G) | U | 1 | | U | 2 | |
| 1,1,2,2-Tetrachloroethane | 5 | UJ | 1 | | U | 0.5 | |
| Benzene | 1 | U | 0.5 | | U | 0.5 | |
| Toluene | 5 | U | 1 | | U | 2.5 | |
| Ethylbenzene | 5 | U | 1 | | U | 2.5 | |
| Chloromethane | - | U | 1 | | U | 2.5 | |
| Bromomethane | 5 | U | 1 | | U | 2.5 | |
| Vinyl chloride | 2 | U | 1 | | U | 1 | |
| Chloroethane | 5 | U | 1 | | U | 2.5 | |
| 1,1-Dichloroethene | 5 | U | 1 | | U | 0.5 | |
| trans-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Trichloroethene | 5 | UJ | 1 | | U | 0.5 | |
| 1,2-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| 1,3-Dichlorobenzene | 3 | U | 1 | | U | 2.5 | |
| 1,4-Dichlorobenzene | 3 | UJ | 1 | | U | 2.5 | |
| Methyl tert butyl ether | 10 (G) | U | 0.5 | | U | 2.5 | |
| p/m-Xylene | 5 | - | | | U | 2.5 | |
| o-Xylene | 5 | - | | | U | 2.5 | |
| cis-1,2-Dichloroethene | 5 | U | 1 | | U | 2.5 | |
| Styrene | 5 | U | 1 | | U | 2.5 | |
| Dichlorodifluoromethane | 5 | U | 1 | | U | 5 | |
| Acetone | 50 (G) | U | 10 | 1.4 | J | | |
| Carbon disulfide | 60 (G) | U | 1 | | U | 5 | |
| 2-Butanone | 50 (G) | U | 1 | | U | 5 | |
| 4-Methyl-2-pentanone | - | U | 1 | | U | 5 | |
| 2-Hexanone | 50 (G) | U | 1 | | U | 5 | |
| Bromochloromethane | 5 | - | | | U | 2.5 | |
| 1,2-Dibromoethane | 5 | U | 1 | | U | 2 | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | 1 | | U | 2.5 | |
| Isopropylbenzene | 5 | U | 1 | | U | 2.5 | |
| 1,2,3-Trichlorobenzene | 5 | - | | | U | 2.5 | |
| 1,2,4-Trichlorobenzene | 5 | UJ | 1 | | U | 2.5 | |
| Methyl Acetate | - | - | | | U | 2 | |
| Cyclohexane | - | U | 1 | | U | 10 | |
| 1,4-Dioxane | - | - | | | U | 250 | |
| Freon-113 | 5 | U | 1 | | U | 2.5 | |
| Methyl cyclohexane | - | U | 1 | | U | 10 | |
| Total Xylenes | 5 | U | 1 | - | | | |
| Total VOCs | | ND | | 1.4 | | | |

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(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

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R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 8 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | | | Duplicate | | |
| Date Sampled | | Baseline (MW-2R) | | 5/14/2014 (MW-5) | | |
| **VOCs by EPA Method 8260B** | | | RPD | | RPD | |
| Methylene chloride | 5 | U | NA | U | NA | |
| 1,1-Dichloroethane | 5 | U | NA | U | NA | |
| Chloroform | 7 | U | NA | U | NA | |
| Carbon tetrachloride | 5 | U | NA | U | NA | |
| 1,2-Dichloropropane | 1 | U | NA | U | NA | |
| Dibromochloromethane | 50 (G) | U | NA | U | NA | |
| 1,1,2-Trichloroethane | 1 | U | NA | U | NA | |
| Tetrachloroethene | 5 | U | NA | U | NA | |
| Chlorobenzene | 5 | U | 0.00% | U | NA | |
| Trichlorofluoromethane | 5 | UJ | NA | U | NA | |
| 1,2-Dichloroethane | 0.6 | U | NA | U | NA | |
| 1,1,1-Trichloroethane | 5 | UJ | NA | U | NA | |
| Bromodichloromethane | 50 (G) | U | NA | U | NA | |
| trans-1,3-Dichloropropene | 0.4 | U | NA | U | NA | |
| cis-1,3-Dichloropropene | 0.4 | U | NA | U | NA | |
| Bromoform | 50 (G) | U | NA | U | NA | |
| 1,1,2,2-Tetrachloroethane | 5 | UJ | NA | U | NA | |
| Benzene | 1 | U | NA | U | NA | |
| Toluene | 5 | U | NA | U | NA | |
| Ethylbenzene | 5 | U | NA | U | NA | |
| Chloromethane | - | U | NA | U | NA | |
| Bromomethane | 5 | U | NA | U | NA | |
| Vinyl chloride | 2 | **6.2** | 27.52% | U | NA | |
| Chloroethane | 5 | U | NA | U | NA | |
| 1,1-Dichloroethene | 5 | U | NA | U | NA | |
| trans-1,2-Dichloroethene | 5 | U | NA | U | NA | |
| Trichloroethene | 5 | UJ | NA | U | NA | |
| 1,2-Dichlorobenzene | 3 | UJ | NA | U | NA | |
| 1,3-Dichlorobenzene | 3 | U | NA | U | NA | |
| 1,4-Dichlorobenzene | 3 | UJ | NA | U | NA | |
| Methyl tert butyl ether | 10 (G) | U | 104.76% | 10 | | 7.25% |
| p/m-Xylene | 5 | - | | U | NA | |
| o-Xylene | 5 | - | | U | NA | |
| cis-1,2-Dichloroethene | 5 | U | NA | U | NA | |
| Styrene | 5 | U | NA | U | NA | |
| Dichlorodifluoromethane | 5 | U | NA | U | NA | |
| Acetone | 50 (G) | U | NA | 2.7 | J | 20.41% |
| Carbon disulfide | 60 (G) | U | NA | U | NA | |
| 2-Butanone | 50 (G) | U | NA | U | NA | |
| 4-Methyl-2-pentanone | - | U | NA | U | NA | |
| 2-Hexanone | 50 (G) | U | NA | U | NA | |
| Bromochloromethane | 5 | - | | U | NA | |
| 1,2-Dibromoethane | 5 | U | NA | U | NA | |
| 1,2-Dibromo-3-chloropropane | 0.04 | UJ | NA | U | NA | |
| Isopropylbenzene | 5 | U | NA | U | NA | |
| 1,2,3-Trichlorobenzene | 5 | - | | U | NA | |
| 1,2,4-Trichlorobenzene | 5 | UJ | NA | U | NA | |
| Methyl Acetate | - | - | | U | NA | |
| Cyclohexane | - | U | NA | U | NA | |
| 1,4-Dioxane | - | - | | U | NA | |
| Freon-113 | 5 | U | NA | U | NA | |
| Methyl cyclohexane | - | U | NA | U | NA | |
| Total Xylenes | 5 | U | NA | - | | |
| Total VOCs | | 6.2 | | 12.7 | | |

All values reported as ug/L (parts per billion)

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(G) - Guidance value

Baseline data was collected on 6/11/2013 and 6/12/2013 by others, following completion of remedial activities

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NS - Not sampled

R.L. - Laboratory Reporting Limit

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 9 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-1 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | 220 | | | 2,710 | | |
| Antimony | 3 | | U | 12 | **6.53** | | |
| Arsenic | 25 | | U | 8 | 4.26 | | |
| Barium | 1,000 | 180 | | | 218.7 | | |
| Beryllium | 3 (G) | | U | 4 | 0.17 | J | |
| Cadmium | 5 | | U | 4 | 0.83 | | |
| Calcium | - | 210,000 | | | 166,000 | | |
| Chromium | 50 | | U | 50 | 35.47 | | |
| Cobalt | - | | U | 20 | 3.58 | | |
| Copper | 200 | | U | 50 | 66.06 | | |
| Iron | 300 | **4,100** | | | **21,500** | | |
| Lead | 25 | 6 | | | **147.4** | | |
| Magnesium | 35,000 (G) | **36,000** | | | 29,100 | | |
| Manganese | 300 | **3,000** | | | **2,458** | | |
| Mercury | 0.7 | | U | 1 | **3.27** | | |
| Nickel | 100 | | U | 50 | 30.45 | | |
| Potassium | - | 18,000 | | | 13,900 | | |
| Selenium | 10 | | U | 40 | 1.03 | J | |
| Silver | 50 | | U | 20 | 0.66 | | |
| Sodium | 20,000 | **220,000** | **J** | | **290,000** | | |
| Thallium | 0.5 (G) | | U | 10 | 0.04 | J | |
| Vanadium | - | | U | 50 | 9.55 | | |
| Zinc | 2,000 (G) | | U | 50 | 298.2 | | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | 9.6 | J | |
| Antimony | 3 | | U | 12 | 0.17 | J | |
| Arsenic | 25 | 8.3 | | | 1.68 | | |
| Barium | 1,000 | 140 | | | 175.8 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | | U | 0.2 |
| Calcium | - | 180,000 | | | 193,000 | | |
| Chromium | 50 | | U | 50 | 3.34 | | |
| Cobalt | - | | U | 20 | 0.82 | | |
| Copper | 200 | | U | 50 | 0.64 | J | |
| Iron | 300 | **760** | | | **7,470** | | |
| Lead | 25 | | U | 4 | | U | 1 |
| Magnesium | 35,000 (G) | 30,000 | | | 27,300 | | |
| Manganese | 300 | **2,500** | | | **2,728** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | | U | 50 | 7.43 | | |
| Potassium | - | 15,000 | | | 14,200 | | |
| Selenium | 10 | | U | 40 | 1.29 | J | |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **190,000** | **J** | | **356,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 0.35 | J | |
| Zinc | 2,000 (G) | | U | 50 | 2.48 | J | |

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**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 10 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-2R | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | 4,200 | J | | 404 | | |
| Antimony | 3 | | U | 12 | **3.12** | | |
| Arsenic | 25 | | U | 8 | **36.36** | | |
| Barium | 1,000 | 200 | | | 192.8 | | |
| Beryllium | 3 (G) | | U | 4 | 0.1 | J | |
| Cadmium | 5 | | U | 4 | 0.19 | J | |
| Calcium | - | 320,000 | | | 88,100 | | |
| Chromium | 50 | | U | 50 | 10.5 | | |
| Cobalt | - | | U | 20 | 1.18 | | |
| Copper | 200 | | U | 50 | 20.21 | | |
| Iron | 300 | **13,000** | **J** | | **58,600** | | |
| Lead | 25 | **120** | **J** | | **73.18** | | |
| Magnesium | 35,000 (G) | **140,000** | | | 33,900 | | |
| Manganese | 300 | **900** | | | **374.7** | | |
| Mercury | 0.7 | | U | 1 | 0.38 | | |
| Nickel | 100 | | U | 50 | 3.41 | | |
| Potassium | - | 55,000 | | | 14,400 | | |
| Selenium | 10 | | U | 40 | 0.53 | J | |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **770,000** | **J** | | **142,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 6.59 | | |
| Zinc | 2,000 (G) | 120 | | | 68.19 | | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | - | | |
| Antimony | 3 | | U | 12 | - | | |
| Arsenic | 25 | | U | 8 | - | | |
| Barium | 1,000 | 160 | | | - | | |
| Beryllium | 3 (G) | | U | 4 | - | | |
| Cadmium | 5 | | U | 4 | - | | |
| Calcium | - | 320,000 | | | - | | |
| Chromium | 50 | | U | 50 | - | | |
| Cobalt | - | | U | 20 | - | | |
| Copper | 200 | | U | 50 | - | | |
| Iron | 300 | **870** | | | - | | |
| Lead | 25 | | U | 4 | - | | |
| Magnesium | 35,000 (G) | **140,000** | | | - | | |
| Manganese | 300 | **830** | | | - | | |
| Mercury | 0.7 | | U | 1 | - | | |
| Nickel | 100 | | U | 50 | - | | |
| Potassium | - | 55,000 | | | - | | |
| Selenium | 10 | | U | 40 | - | | |
| Silver | 50 | | U | 20 | - | | |
| Sodium | 20,000 | **760,000** | **J** | | - | | |
| Thallium | 0.5 (G) | | U | 10 | - | | |
| Vanadium | - | | U | 50 | - | | |
| Zinc | 2,000 (G) | | U | 50 | - | | |

All values reported as ug/L (parts per billion)

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R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 11 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-4 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | 250 | | | 103 | | |
| Antimony | 3 | | U | 12 | 2.91 | | |
| Arsenic | 25 | | U | 8 | 9.74 | | |
| Barium | 1,000 | 660 | | | 92.03 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | 0.05 | J | |
| Calcium | - | 520,000 | J | | 272,000 | | |
| Chromium | 50 | | U | 50 | 0.77 | J | |
| Cobalt | - | | U | 20 | 0.36 | | |
| Copper | 200 | | U | 50 | 1.12 | J | |
| Iron | 300 | **650** | | | 186 | | |
| Lead | 25 | 9 | | | 3.12 | | |
| Magnesium | 35,000 (G) | 8,400 | J | | 6,600 | | |
| Manganese | 300 | 100 | | | 5.31 | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | | U | 50 | 3.56 | | |
| Potassium | - | 64,000 | | | 70,700 | | |
| Selenium | 10 | | U | 40 | 0.55 | J | |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **250,000** | **J** | | **303,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 0.92 | J | |
| Zinc | 2,000 (G) | | U | 50 | 13.78 | | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | - | | |
| Antimony | 3 | | U | 12 | - | | |
| Arsenic | 25 | | U | 8 | - | | |
| Barium | 1,000 | 620 | | | - | | |
| Beryllium | 3 (G) | | U | 4 | - | | |
| Cadmium | 5 | | U | 4 | - | | |
| Calcium | - | 440,000 | J | | - | | |
| Chromium | 50 | | U | 50 | - | | |
| Cobalt | - | | U | 20 | - | | |
| Copper | 200 | | U | 50 | - | | |
| Iron | 300 | | U | 280 | - | | |
| Lead | 25 | | U | 4 | - | | |
| Magnesium | 35,000 (G) | | UJ | 2,000 | - | | |
| Manganese | 300 | | U | 40 | - | | |
| Mercury | 0.7 | | U | 1 | - | | |
| Nickel | 100 | | U | 50 | - | | |
| Potassium | - | 65,000 | | | - | | |
| Selenium | 10 | | U | 40 | - | | |
| Silver | 50 | | U | 20 | - | | |
| Sodium | 20,000 | **250,000** | **J** | | - | | |
| Thallium | 0.5 (G) | | U | 10 | - | | |
| Vanadium | - | | U | 50 | - | | |
| Zinc | 2,000 (G) | | U | 50 | - | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 12 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-5 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | | U | 180 | 2,380 | | |
| Antimony | 3 | | U | 12 | **3.01** | | |
| Arsenic | 25 | 25 | | | 11.91 | | |
| Barium | 1,000 | 56 | | | 126.4 | | |
| Beryllium | 3 (G) | | U | 4 | 0.12 | J | |
| Cadmium | 5 | | U | 4 | 1.56 | | |
| Calcium | - | 210,000 | J | | 243,000 | | |
| Chromium | 50 | | U | 50 | 8.36 | | |
| Cobalt | - | | U | 20 | 3.84 | | |
| Copper | 200 | | U | 50 | 49.9 | | |
| Iron | 300 | **4,000** | | | **16,400** | | |
| Lead | 25 | 6 | | | **244.8** | | |
| Magnesium | 35,000 (G) | **120,000** | **J** | | **147,000** | | |
| Manganese | 300 | **950** | | | **1,020** | | |
| Mercury | 0.7 | | U | 1 | **6.02** | | |
| Nickel | 100 | | U | 50 | 26.93 | | |
| Potassium | - | 73,000 | | | 75,300 | | |
| Selenium | 10 | | U | 40 | 0.77 | J | |
| Silver | 50 | | U | 20 | 0.17 | J | |
| Sodium | 20,000 | **740,000** | **J** | | **1,140,000** | | |
| Thallium | 0.5 (G) | | U | 10 | 0.06 | J | |
| Vanadium | - | | U | 50 | 12.03 | | |
| Zinc | 2,000 (G) | | U | 50 | 736.6 | | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | - | | |
| Antimony | 3 | | U | 12 | - | | |
| Arsenic | 25 | 10 | | | - | | |
| Barium | 1,000 | 54 | | | - | | |
| Beryllium | 3 (G) | | U | 4 | - | | |
| Cadmium | 5 | | U | 4 | - | | |
| Calcium | - | 220,000 | J | | - | | |
| Chromium | 50 | | U | 50 | - | | |
| Cobalt | - | | U | 20 | - | | |
| Copper | 200 | | U | 50 | - | | |
| Iron | 300 | **370** | | | - | | |
| Lead | 25 | 4 | | | - | | |
| Magnesium | 35,000 (G) | **120,000** | **J** | | - | | |
| Manganese | 300 | **970** | | | - | | |
| Mercury | 0.7 | | U | 1 | - | | |
| Nickel | 100 | | U | 50 | - | | |
| Potassium | - | 77,000 | | | - | | |
| Selenium | 10 | | U | 40 | - | | |
| Silver | 50 | | U | 20 | - | | |
| Sodium | 20,000 | **760,000** | **J** | | - | | |
| Thallium | 0.5 (G) | | U | 10 | - | | |
| Vanadium | - | | U | 50 | - | | |
| Zinc | 2,000 (G) | | U | 50 | - | | |

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 13 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-6 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | | U | 180 | 137 | | |
| Antimony | 3 | | U | 12 | **3.09** | | |
| Arsenic | 25 | 14 | | | 7.55 | | |
| Barium | 1,000 | 140 | | | 104.8 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | 0.93 | | |
| Calcium | - | 360,000 | J | | 292,000 | | |
| Chromium | 50 | | U | 50 | 3.97 | | |
| Cobalt | - | | U | 20 | 4.53 | | |
| Copper | 200 | | U | 50 | 3.64 | | |
| Iron | 300 | **650** | | | **5,820** | | |
| Lead | 25 | 10 | | | 9.28 | | |
| Magnesium | 35,000 (G) | **47,000** | **J** | | **46,300** | | |
| Manganese | 300 | **640** | | | **1,526** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | | U | 50 | 22.81 | | |
| Potassium | - | 66,000 | | | 61,100 | | |
| Selenium | 10 | | U | 40 | 0.51 | J | |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **410,000** | **J** | | **385,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 2.66 | J | |
| Zinc | 2,000 (G) | | U | 50 | 819.6 | | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | - | | |
| Antimony | 3 | | U | 12 | - | | |
| Arsenic | 25 | 10 | | | - | | |
| Barium | 1,000 | 130 | | | - | | |
| Beryllium | 3 (G) | | U | 4 | - | | |
| Cadmium | 5 | | U | 4 | - | | |
| Calcium | - | 340,000 | J | | - | | |
| Chromium | 50 | | U | 50 | - | | |
| Cobalt | - | | U | 20 | - | | |
| Copper | 200 | | U | 50 | - | | |
| Iron | 300 | **370** | | | - | | |
| Lead | 25 | 5 | | | - | | |
| Magnesium | 35,000 (G) | **46,000** | **J** | | - | | |
| Manganese | 300 | **630** | | | - | | |
| Mercury | 0.7 | | U | 1 | - | | |
| Nickel | 100 | | U | 50 | - | | |
| Potassium | - | 65,000 | | | - | | |
| Selenium | 10 | | U | 40 | - | | |
| Silver | 50 | | U | 20 | - | | |
| Sodium | 20,000 | **400,000** | **J** | | - | | |
| Thallium | 0.5 (G) | | U | 10 | - | | |
| Vanadium | - | | U | 50 | - | | |
| Zinc | 2,000 (G) | | U | 50 | - | | |

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 14 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-7 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | | U | 180 | 2.89 | J | |
| Antimony | 3 | | U | 12 | 0.52 | J | |
| Arsenic | 25 | | U | 8 | 1.4 | | |
| Barium | 1,000 | 150 | | | 85.68 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | | U | 0.2 |
| Calcium | - | 110,000 | | | 109,000 | | |
| Chromium | 50 | | U | 50 | 0.99 | J | |
| Cobalt | - | | U | 20 | 1.15 | | |
| Copper | 200 | | U | 50 | 1.13 | J | |
| Iron | 300 | **6,400** | | | **3,170** | | |
| Lead | 25 | | U | 4 | | U | 1 |
| Magnesium | 35,000 (G) | 7,300 | | | 7,040 | | |
| Manganese | 300 | **830** | | | **823.6** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | 100 | | | **121.9** | | |
| Potassium | - | 13,000 | | | 9,020 | | |
| Selenium | 10 | | U | 40 | | U | 5 |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **330,000** | **J** | | **153,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | | U | 0.5 |
| Zinc | 2,000 (G) | | U | 50 | 9.03 | J | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | 68.3 | | |
| Antimony | 3 | | U | 12 | 0.75 | J | |
| Arsenic | 25 | | U | 8 | 5.08 | | |
| Barium | 1,000 | 150 | | | 119.3 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | 0.05 | J | |
| Calcium | - | 130,000 | | | 118,000 | | |
| Chromium | 50 | | U | 50 | 23.34 | | |
| Cobalt | - | | U | 20 | 1.28 | | |
| Copper | 200 | | U | 50 | 1.31 | | |
| Iron | 300 | **980** | | | **13,400** | | |
| Lead | 25 | | U | 4 | 2.24 | | |
| Magnesium | 35,000 (G) | 8,500 | | | 8,240 | | |
| Manganese | 300 | **950** | | | **853.8** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | **110** | | | **135.9** | | |
| Potassium | - | 15,000 | | | 10,400 | | |
| Selenium | 10 | | U | 40 | 0.59 | J | |
| Silver | 50 | | U | 20 | 0.13 | J | |
| Sodium | 20,000 | **380,000** | **J** | | **175,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 0.54 | J | |
| Zinc | 2,000 (G) | | U | 50 | 6.31 | J | |

All values reported as ug/L (parts per billion)

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Baseline data was collected on 6/12/2013 by others, following completion of remedial activities

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 15 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | MW-8 | | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | | |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | R.L. | | | R.L. |
| Aluminum | - | 220 | | | 230 | | |
| Antimony | 3 | | U | 12 | 0.5 | J | |
| Arsenic | 25 | | U | 8 | 0.39 | J | |
| Barium | 1,000 | 270 | | | 376.1 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | 0.65 | | |
| Calcium | - | 150,000 | | | 221,000 | | |
| Chromium | 50 | | U | 50 | 1.29 | | |
| Cobalt | - | | U | 20 | 0.21 | | |
| Copper | 200 | | U | 50 | 1.36 | J | |
| Iron | 300 | **13,000** | | | **25,800** | | |
| Lead | 25 | 7.8 | | | 2.72 | | |
| Magnesium | 35,000 (G) | 7,700 | | | 10,000 | | |
| Manganese | 300 | **780** | | | **1,180** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | | U | 50 | 0.93 | | |
| Potassium | - | 18,000 | | | 15,900 | | |
| Selenium | 10 | | U | 40 | | U | 5 |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **420,000** | **J** | | **504,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 2.15 | J | |
| Zinc | 2,000 (G) | | U | 50 | 6.77 | J | |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | 180 | 3.95 | J | |
| Antimony | 3 | | U | 12 | 0.19 | J | |
| Arsenic | 25 | | U | 8 | 0.89 | | |
| Barium | 1,000 | 200 | | | 366.9 | | |
| Beryllium | 3 (G) | | U | 4 | | U | 0.5 |
| Cadmium | 5 | | U | 4 | | U | 0.2 |
| Calcium | - | 160,000 | | | 217,000 | | |
| Chromium | 50 | | U | 50 | 1.56 | | |
| Cobalt | - | | U | 20 | 0.33 | J | |
| Copper | 200 | | U | 50 | 0.68 | J | |
| Iron | 300 | **1,200** | | | **19,400** | | |
| Lead | 25 | | U | 4 | | U | 1 |
| Magnesium | 35,000 (G) | 8,200 | | | 11,600 | | |
| Manganese | 300 | **810** | | | **971.8** | | |
| Mercury | 0.7 | | U | 1 | | U | 0.2 |
| Nickel | 100 | | U | 50 | 3.29 | | |
| Potassium | - | 19,000 | | | 17,800 | | |
| Selenium | 10 | | U | 40 | 1.08 | J | |
| Silver | 50 | | U | 20 | | U | 0.4 |
| Sodium | 20,000 | **450,000** | **J** | | **500,000** | | |
| Thallium | 0.5 (G) | | U | 10 | | U | 0.5 |
| Vanadium | - | | U | 50 | 0.48 | J | |
| Zinc | 2,000 (G) | | U | 50 | 3.82 | J | |

All values reported as ug/L (parts per billion)

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U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 16 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|
| | | DUPLICATE | | | | | |
| Date Sampled | | Baseline (MW-2R) | | RPD | 5/14/2014 (MW-5) | | RPD |
| **Total Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | 1,700 | J | 84.75% | 4,070 | | 52.40% |
| Antimony | 3 | | U | NA | **4.21** | | 33.24% |
| Arsenic | 25 | | U | NA | 19.91 | | 50.28% |
| Barium | 1,000 | 160 | | 22.22% | 167.5 | | 27.97% |
| Beryllium | 3 (G) | | U | NA | 0.21 | J | 54.55% |
| Cadmium | 5 | | U | NA | 2.45 | | 44.39% |
| Calcium | - | 280,000 | | 13.33% | 240,000 | | 1.24% |
| Chromium | 50 | | U | NA | 14.57 | | 54.16% |
| Cobalt | - | | U | NA | 6.66 | | 53.71% |
| Copper | 200 | | U | NA | 88.29 | | 55.56% |
| Iron | 300 | **9,000** | **J** | 36.36% | **30,600** | | 60.43% |
| Lead | 25 | **49** | **J** | 84.02% | **375.6** | | 42.17% |
| Magnesium | 35,000 (G) | **120,000** | | 15.38% | **137,000** | | 7.04% |
| Manganese | 300 | **790** | | 13.02% | **1,016** | | 0.39% |
| Mercury | 0.7 | | U | NA | **12.5** | | 69.98% |
| Nickel | 100 | | U | NA | 45.52 | | 51.32% |
| Potassium | - | 48,000 | | 13.59% | 70,000 | | 7.30% |
| Selenium | 10 | | U | NA | 1.18 | J | 42.05% |
| Silver | 50 | | U | NA | 0.33 | J | 64.00% |
| Sodium | 20,000 | **660,000** | **J** | 15.38% | **1,130,000** | | 0.88% |
| Thallium | 0.5 (G) | | U | NA | 0.11 | J | 58.82% |
| Vanadium | - | | U | NA | 22.13 | | 59.13% |
| Zinc | 2,000 (G) | 76 | | 44.90% | 1,320 | | 56.73% |
| **Dissolved Metals by EPA Methods 6020A and 7470A** | | | | | | | |
| Aluminum | - | | U | NA | - | | |
| Antimony | 3 | | U | NA | - | | |
| Arsenic | 25 | | U | NA | - | | |
| Barium | 1,000 | 160 | | 0.00% | - | | |
| Beryllium | 3 (G) | | U | NA | - | | |
| Cadmium | 5 | | U | NA | - | | |
| Calcium | - | 310,000 | | 3.17% | - | | |
| Chromium | 50 | | U | NA | - | | |
| Cobalt | - | | U | NA | - | | |
| Copper | 200 | | U | NA | - | | |
| Iron | 300 | **750** | | 14.81% | - | | |
| Lead | 25 | | U | NA | - | | |
| Magnesium | 35,000 (G) | **140,000** | | 0.00% | - | | |
| Manganese | 300 | **860** | | 3.55% | - | | |
| Mercury | 0.7 | | U | NA | - | | |
| Nickel | 100 | | U | NA | - | | |
| Potassium | - | 54,000 | | 1.83% | - | | |
| Selenium | 10 | | U | NA | - | | |
| Silver | 50 | | U | NA | - | | |
| Sodium | 20,000 | **750,000** | **J** | 1.32% | - | | |
| Thallium | 0.5 (G) | | U | NA | - | | |
| Vanadium | - | | U | NA | - | | |
| Zinc | 2,000 (G) | | U | NA | - | | |

All values reported as ug/L (parts per billion)

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U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

NA - Not Applicable

R.L. - Laboratory Reporting Limit

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 17 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-1 | | | | |
| Date Sampled | | Baseline | | 5/14/2014 | | |
| **PCBs by EPA Method 8082A** | | | R.L. | | | R.L. |
| Aroclor 1016 | | U | 0.05 | U | | 0.083 |
| Aroclor 1221 | | U | 0.05 | U | | 0.083 |
| Aroclor 1232 | | U | 0.05 | U | | 0.083 |
| Aroclor 1242 | | U | 0.05 | U | | 0.083 |
| Aroclor 1248 | | U | 0.05 | 0.768 | | |
| Aroclor 1254 | | U | 0.05 | 0.416 | | |
| Aroclor 1260 | | U | 0.05 | U | | 0.083 |
| Aroclor 1262 | | - | | U | | 0.083 |
| Aroclor 1268 | | - | | U | | 0.083 |
| Total PCBs | 0.09 | ND | | **1.184** | | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 347,000 | | 400,000 | | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | **600,000** | | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 690,000 | | 1,300,000 | | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | 10,600 | | U | | 50,000 |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 5,400 | | 10,600 | | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | U | | 20 |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 18 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-2R | | | | |
| Date Sampled | | Baseline | | 5/14/2014 | | |
| **PCBs by EPA Method 8082A** | | | R.L. | | R.L. | |
| Aroclor 1016 | | U | 0.05 | U | 0.083 | |
| Aroclor 1221 | | U | 0.05 | U | 0.083 | |
| Aroclor 1232 | | U | 0.05 | U | 0.083 | |
| Aroclor 1242 | | U | 0.05 | U | 0.083 | |
| Aroclor 1248 | | U | 0.05 | U | 0.083 | |
| Aroclor 1254 | | U | 0.05 | U | 0.083 | |
| Aroclor 1260 | | U | 0.05 | U | 0.083 | |
| Aroclor 1262 | | - | | U | 0.083 | |
| Aroclor 1268 | | - | | U | 0.083 | |
| Total PCBs | 0.09 | ND | | ND | | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 308,000 | | 312,000 | | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | **270,000** | | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 32,900 | | 74,000 | | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | U | 6,000 | U | 10,000 | |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 2,800 | | 11,200 | | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | 26.9 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 19 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-4 | | | | |
| Date Sampled | | Baseline | | 5/14/2014 | | |
| **PCBs by EPA Method 8082A** | | | R.L. | | | R.L. |
| Aroclor 1016 | | U | 0.05 | U | | 0.083 |
| Aroclor 1221 | | U | 0.05 | U | | 0.083 |
| Aroclor 1232 | | U | 0.05 | U | | 0.083 |
| Aroclor 1242 | | U | 0.05 | U | | 0.083 |
| Aroclor 1248 | | U | 0.05 | 0.110 | | |
| Aroclor 1254 | | U | 0.05 | U | | 0.083 |
| Aroclor 1260 | | U | 0.05 | U | | 0.083 |
| Aroclor 1262 | | - | | U | | 0.083 |
| Aroclor 1268 | | - | | U | | 0.083 |
| Total PCBs | 0.09 | ND | | **0.110** | | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 446,000 | | 186,000 | | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | **460,000** | | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 1,170,000 | | 150,000 | | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | 11,700 | | | U | 5,000 |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 26,900 | | 52,100 | | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | 47.4 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 20 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-5 | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | |
| **PCBs by EPA Method 8082A** | | | R.L. | | | R.L. |
| Aroclor 1016 | | U | 0.05 | | U | 0.083 |
| Aroclor 1221 | | U | 0.05 | | U | 0.083 |
| Aroclor 1232 | | U | 0.05 | | U | 0.083 |
| Aroclor 1242 | | U | 0.05 | | U | 0.083 |
| Aroclor 1248 | | U | 0.05 | 0.195 | | |
| Aroclor 1254 | | U | 0.05 | 0.170 | | |
| Aroclor 1260 | | U | 0.05 | 0.084 | | |
| Aroclor 1262 | | - | | | U | 0.083 |
| Aroclor 1268 | | - | | | U | 0.083 |
| Total PCBs | 0.09 | ND | | **0.449** | | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 637,000 | | 387,000 | | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | **1,400,000** | | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 324,000 | | 220,000 | | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | 21,000 | | 13,000 | | |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 18,800 | | 23,200 | | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | 66.5 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 21 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-6 | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | |
| **PCBs by EPA Method 8082A** | | | R.L. | | | R.L. |
| Aroclor 1016 | | U | 0.05 | | U | 0.083 |
| Aroclor 1221 | | U | 0.05 | | U | 0.083 |
| Aroclor 1232 | | U | 0.05 | | U | 0.083 |
| Aroclor 1242 | | U | 0.05 | 0.279 | | |
| Aroclor 1248 | | U | 0.05 | | U | 0.083 |
| Aroclor 1254 | | U | 0.05 | 0.187 | | |
| Aroclor 1260 | | U | 0.05 | | U | 0.083 |
| Aroclor 1262 | | - | | | U | 0.083 |
| Aroclor 1268 | | - | | | U | 0.083 |
| Total PCBs | 0.09 | ND | | **0.466** | | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 530,000 | | 560,000 | | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | **620,000** | | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 994,000 | | 320,000 | | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | 12,300 | | 26,000 | | |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 24,000 | | 35,100 | | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | 47.4 | | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 22 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | |
|---|---|---|---|---|---|
| | | MW-7 | | | |
| Date Sampled | | Baseline | | 5/14/2014 | |
| **PCBs by EPA Method 8082A** | | | **R.L.** | | **R.L.** |
| Aroclor 1016 | | U | 0.05 | U | 0.083 |
| Aroclor 1221 | | U | 0.05 | U | 0.083 |
| Aroclor 1232 | | U | 0.05 | U | 0.083 |
| Aroclor 1242 | | U | 0.05 | U | 0.083 |
| Aroclor 1248 | | U | 0.05 | U | 0.083 |
| Aroclor 1254 | | U | 0.05 | U | 0.083 |
| Aroclor 1260 | | U | 0.05 | U | 0.083 |
| Aroclor 1262 | | - | | U | 0.083 |
| Aroclor 1268 | | - | | U | 0.083 |
| Total PCBs | 0.09 | ND | | ND | |
| **Alkalinity by EPA Method 2320B** | | | | | |
| Alkalinity, Total | - | 291,000 | | 330,000 | |
| **Chloride by EPA Method 9251** | | | | | |
| Chloride | 250,000 | - | | 250,000 | |
| **COD by EPA Method 5220D** | | | | | |
| Chemical Oxygen Demand | - | 199,000 | | 35,000 | |
| **BOD by EPA Method 5210B** | | | | | |
| BOD, 5 day | - | 10,300 | | 14,000 | |
| **TOC by EPA Method 5310C** | | | | | |
| Total Organic Carbon | - | 5,200 | | 6,440 | |
| **TOX by EPA Method 9020B** | | | | | |
| Halogen, Total Organic | - | - | | 50.4 | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 23 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | | |
|---|---|---|---|---|---|---|
| | | MW-8 | | | | |
| Date Sampled | | Baseline | | | 5/14/2014 | |
| **PCBs by EPA Method 8082A** | | | R.L. | | | R.L. |
| Aroclor 1016 | | U | 0.05 | | U | 0.083 |
| Aroclor 1221 | | U | 0.05 | | U | 0.083 |
| Aroclor 1232 | | U | 0.05 | | U | 0.083 |
| Aroclor 1242 | | U | 0.05 | | U | 0.083 |
| Aroclor 1248 | | U | 0.05 | | U | 0.083 |
| Aroclor 1254 | | U | 0.05 | | U | 0.083 |
| Aroclor 1260 | | U | 0.05 | | U | 0.083 |
| Aroclor 1262 | | - | | | U | 0.083 |
| Aroclor 1268 | | - | | | U | 0.083 |
| Total PCBs | 0.09 | ND | | | ND | |
| **Alkalinity by EPA Method 2320B** | | | | | | |
| Alkalinity, Total | - | 613,000 | | | 575,000 | |
| **Chloride by EPA Method 9251** | | | | | | |
| Chloride | 250,000 | - | | | **740,000** | |
| **COD by EPA Method 5220D** | | | | | | |
| Chemical Oxygen Demand | - | 359,000 | | | 49,000 | |
| **BOD by EPA Method 5210B** | | | | | | |
| BOD, 5 day | - | U | 6,000 | | 3,400 | |
| **TOC by EPA Method 5310C** | | | | | | |
| Total Organic Carbon | - | 5,500 | | | 7,620 | |
| **TOX by EPA Method 9020B** | | | | | | |
| Halogen, Total Organic | - | - | | | 40.5 | |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

R.L. - Laboratory Reporting Limit

**Bold and boxed results indicate an exceedance of Groundwater Standards**

Table 3: (Page 24 of 24) Summary of Groundwater Sample Laboratory Analytical Results. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133

| Analyte | GW Std^ (ug/L) | Sample Identification | | | |
|---|---|---|---|---|---|
| | | | | DUPLICATE | |
| Date Sampled | | Baseline (MW-5) | | 5/14/2014 (MW-5) | |
| **PCBs by EPA Method 8082A** | | | **RPD** | | **RPD** |
| Aroclor 1016 | | U | NA | U | NA |
| Aroclor 1221 | | U | NA | U | NA |
| Aroclor 1232 | | U | NA | U | NA |
| Aroclor 1242 | | U | NA | U | NA |
| Aroclor 1248 | | U | NA | U | 117.07% |
| Aroclor 1254 | | U | NA | U | 133.33% |
| Aroclor 1260 | | U | NA | U | 89.66% |
| Aroclor 1262 | | - | | U | NA |
| Aroclor 1268 | | - | | U | NA |
| Total PCBs | 0.09 | ND | | ND | |
| **Alkalinity by EPA Method 2320B** | | | | | |
| Alkalinity, Total | - | - | | 391,000 | 1.03% |
| **Chloride by EPA Method 9251** | | | | | |
| Chloride | 250,000 | - | | **1,300,000** | 7.41% |
| **COD by EPA Method 5220D** | | | | | |
| Chemical Oxygen Demand | - | - | | 230,000 | 4.44% |
| **BOD by EPA Method 5210B** | | | | | |
| BOD, 5 day | - | - | | 23,000 | 55.56% |
| **TOC by EPA Method 5310C** | | | | | |
| Total Organic Carbon | - | - | | 22,700 | 2.18% |
| **TOX by EPA Method 9020B** | | | | | |
| Halogen, Total Organic | - | - | | 46.1 | 36.23% |

All values reported as ug/L (parts per billion)

^ - GW Std - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

Baseline groundwater data was collected 11/20/2009 (PCBs) and 7/11/2011 (Other Analytes) by others

U - Analyzed for but Not Detected

J - Indicates an estimated value

( - ) - No standard established or no sample analyzed for specific analyte

ND - Analyzed for but Not Detected above laboratory detection limits

NA - Not Applicable

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory detection limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

**Bold and boxed results indicate an exceedance of Groundwater Standards**

# Attachments

# Attachment A

Laboratory Analytical Reports

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1410493 |
| Client: | GHD Inc<br>One Remington Park Drive<br>Cazenovia, NY 13035 |
| ATTN: | Ian McNamara |
| Phone: | (315) 679-5800 |
| Project Name: | MORGAN AVE. BROOKLYN BCP SITE |
| Project Number: | 86-16480 |
| Report Date: | 05/23/14 |



Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Alpha Sample ID | Client ID | Sample Location | Collection Date/Time |
|---|---|---|---|
| L1410493-01 | MW-4 | BROOKLYN, NY | 05/14/14 10:55 |
| L1410493-02 | MW-5 | BROOKLYN, NY | 05/14/14 11:55 |
| L1410493-03 | MW-6 | BROOKLYN, NY | 05/14/14 13:00 |
| L1410493-04 | MW-2R | BROOKLYN, NY | 05/14/14 14:00 |
| L1410493-05 | MW-7 | BROOKLYN, NY | 05/14/14 15:10 |
| L1410493-06 | MW-8 | BROOKLYN, NY | 05/14/14 15:55 |
| L1410493-07 | MW-1 | BROOKLYN, NY | 05/14/14 16:50 |
| L1410493-08 | DUPLICATE | BROOKLYN, NY | 05/14/14 00:00 |
| L1410493-09 | TRIP BLANK | BROOKLYN, NY | 05/14/14 00:00 |

| | | | |
|---|---|---|---|
| **Project Name:** | MORGAN AVE. BROOKLYN BCP SITE | **Lab Number:** | L1410493 |
| **Project Number:** | 86-16480 | **Report Date:** | 05/23/14 |

## Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

| | | | |
|---|---|---|---|
| **Project Name:** | MORGAN AVE. BROOKLYN BCP SITE | **Lab Number:** | L1410493 |
| **Project Number:** | 86-16480 | **Report Date:** | 05/23/14 |

**Case Narrative (continued)**

Report Submission

The analysis of TOX was subcontracted, and the results will be issued under separate cover.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1410493-05, -06 and -07 were field filtered for Dissolved Metals.

Volatile Organics

The WG691588-4/-5 MS/MSD recoveries, performed on L1410493-07, are outside the acceptance criteria for 1,2,3-trichlorobenzene (40%/40%) and 1,2,4-trichlorobenzene (53%/54%); however, the associated LCS/LCSD recoveries are within overall method allowances.

Total Metals

L1410493-05: The dissolved results are greater than the total results. The sample containers were verified as being labeled correctly by the laboratory. The samples were field filtered.

The WG690695-3/-4 MS/MSD recoveries for calcium (60%/20%), iron (20%/0%), manganese (MSD at 66%), and sodium (20%/0%), performed on L1410493-07, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG690695-3/-4 MS recoveries, performed on L1410493-07, are outside the acceptance criteria for magnesium (MS at 0%), potassium (MS at 25%) and selenium (40%/46%). A post digestion spike was performed and was within acceptance criteria.

The WG690695-4/-5 MS/MSD RPDs, performed on L1410493-07, are above the acceptance criteria for magnesium (45%) and potassium (38%).

Dissolved Metals

The WG690757-3/-4 MS/MSD recoveries for calcium (0%/20% and sodium (0%/0%), performed on L1410493-

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493
**Project Number:** 86-16480 **Report Date:** 05/23/14

**Case Narrative (continued)**

07, do not apply because the sample concentrations are greater than four times the spike amounts added. The WG690757-3/-4 MS/MSD recoveries, performed on L1410493-07, are outside the acceptance criteria for magnesium (144%/148%). A post digestion spike was performed and was within acceptance criteria.

Chloride

The WG691249-4 MS recovery (0%), performed on L1410493-07, does not apply because the sample concentration is greater than four times the spike amount added.

Chemical Oxygen Demand

The WG690373-3 MS recovery (83%), performed on L1410493-07, is outside the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

BOD, 5 day

L1410493-01, -04 and -07 were set at the correct dilution for BOD analysis according to prep screening; however, not enough depletion occurred. Therefore, the samples are reported as "non-detect" at an elevated detection limit. Due to the expiration of the method required holding time, re-analysis could not be performed. The WG690036-2 LCS recovery (122%), associated with L1410493-01 through -08, is outside the acceptance criteria. Due to the expiration of the method required holding time, no further action was taken. The WG690036-4 MS recovery (184%), performed on L1410493-07, is outside the acceptance criteria; however, due to the expiration of the method required holding time, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 05/23/14

# ORGANICS

# VOLATILES

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-01 | Date Collected: | 05/14/14 10:55 |
| Client ID: | MW-4 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 03:27 | | |
| Analyst: | MS | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 13 | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-01 Date Collected: 05/14/14 10:55

Client ID: MW-4 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 5.0 | | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-02 | Date Collected: | 05/14/14 11:55 |
| Client ID: | MW-5 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 03:54 | | |
| Analyst: | MS | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 9.3 | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-02 Date Collected: 05/14/14 11:55

Client ID: MW-5 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.2 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-03 | Date Collected: | 05/14/14 13:00 |
| Client ID: | MW-6 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 04:22 | | |
| Analyst: | MS | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 14 | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-03 Date Collected: 05/14/14 13:00

Client ID: MW-6 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 3.7 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-04 | Date Collected: | 05/14/14 14:00 |
| Client ID: | MW-2R | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 04:50 | | |
| Analyst: | MS | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 1.6 | J | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-04 Date Collected: 05/14/14 14:00

Client ID: MW-2R Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.3 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-05 | Date Collected: | 05/14/14 15:10 |
| Client ID: | MW-7 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 17:02 | | |
| Analyst: | PD | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | 0.75 | J | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 2.2 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | 2.3 | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 5.5 | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 9.1 | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-05 Date Collected: 05/14/14 15:10

Client ID: MW-7 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 16 | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.6 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 81 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-06 | Date Collected: | 05/14/14 15:55 |
| Client ID: | MW-8 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 17:29 | | |
| Analyst: | PD | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-06 Date Collected: 05/14/14 15:55

Client ID: MW-8 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.4 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 81 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-07 | Date Collected: | 05/14/14 16:50 |
| Client ID: | MW-1 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 05:17 | | |
| Analyst: | MS | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | 0.72 | J | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 5.8 | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.17 | J | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 4.6 | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-07 Date Collected: 05/14/14 16:50

Client ID: MW-1 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 2.1 | J | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.7 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-08 | Date Collected: | 05/14/14 00:00 |
| Client ID: | DUPLICATE | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 17:57 | | |
| Analyst: | PD | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 10 | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-08 Date Collected: 05/14/14 00:00

Client ID: DUPLICATE Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.7 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 79 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-09 | Date Collected: | 05/14/14 00:00 |
| Client ID: | TRIP BLANK | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | | |
| Analytical Method: | 1,8260C | | |
| Analytical Date: | 05/22/14 18:25 | | |
| Analyst: | PD | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-09 Date Collected: 05/14/14 00:00

Client ID: TRIP BLANK Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.5 | J | ug/l | 5.0 | 1.0 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 80 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/14 20:58
Analyst: MS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,07 Batch: WG691588-3 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/14 20:58
Analyst: MS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,07 Batch: WG691588-3 | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.0 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/22/14 10:05
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,08-09 Batch: WG691705-3 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.13 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.14 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.33 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.14 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.17 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/22/14 10:05
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06,08-09 Batch: WG691705-3 | | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.0 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.24 |
| 1,4-Dioxane | ND | | ug/l | 250 | 41. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.29 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG691588-1 WG691588-2 | | | | | | | | |
| Methylene chloride | 93 | | 95 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethane | 101 | | 103 | | 70-130 | 2 | | 20 |
| Chloroform | 110 | | 111 | | 70-130 | 1 | | 20 |
| 2-Chloroethylvinyl ether | 79 | | 87 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 113 | | 114 | | 63-132 | 1 | | 20 |
| 1,2-Dichloropropane | 100 | | 102 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 101 | | 107 | | 63-130 | 6 | | 20 |
| 1,1,2-Trichloroethane | 104 | | 112 | | 70-130 | 7 | | 20 |
| Tetrachloroethene | 114 | | 116 | | 70-130 | 2 | | 20 |
| Chlorobenzene | 106 | | 108 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 112 | | 112 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 103 | | 108 | | 70-130 | 5 | | 20 |
| 1,1,1-Trichloroethane | 112 | | 113 | | 67-130 | 1 | | 20 |
| Bromodichloromethane | 103 | | 105 | | 67-130 | 2 | | 20 |
| trans-1,3-Dichloropropene | 104 | | 111 | | 70-130 | 7 | | 20 |
| cis-1,3-Dichloropropene | 97 | | 101 | | 70-130 | 4 | | 20 |
| 1,1-Dichloropropene | 106 | | 106 | | 70-130 | 0 | | 20 |
| Bromoform | 92 | | 100 | | 54-136 | 8 | | 20 |
| 1,1,2,2-Tetrachloroethane | 82 | | 91 | | 67-130 | 10 | | 20 |
| Benzene | 101 | | 103 | | 70-130 | 2 | | 20 |
| Toluene | 104 | | 106 | | 70-130 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG691588-1 WG691588-2 | | | | | | | | |
| Ethylbenzene | 110 | | 112 | | 70-130 | 2 | | 20 |
| Chloromethane | 73 | | 73 | | 64-130 | 0 | | 20 |
| Bromomethane | 72 | | 74 | | 39-139 | 3 | | 20 |
| Vinyl chloride | 76 | | 78 | | 55-140 | 3 | | 20 |
| Chloroethane | 97 | | 102 | | 55-138 | 5 | | 20 |
| 1,1-Dichloroethene | 98 | | 99 | | 61-145 | 1 | | 20 |
| trans-1,2-Dichloroethene | 101 | | 102 | | 70-130 | 1 | | 20 |
| Trichloroethene | 108 | | 109 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 106 | | 111 | | 70-130 | 5 | | 20 |
| 1,3-Dichlorobenzene | 113 | | 115 | | 70-130 | 2 | | 20 |
| 1,4-Dichlorobenzene | 112 | | 115 | | 70-130 | 3 | | 20 |
| Methyl tert butyl ether | 97 | | 106 | | 63-130 | 9 | | 20 |
| p/m-Xylene | 121 | | 123 | | 70-130 | 2 | | 20 |
| o-Xylene | 117 | | 118 | | 70-130 | 1 | | 20 |
| cis-1,2-Dichloroethene | 101 | | 106 | | 70-130 | 5 | | 20 |
| Dibromomethane | 96 | | 103 | | 70-130 | 7 | | 20 |
| 1,2,3-Trichloropropane | 96 | | 101 | | 64-130 | 5 | | 20 |
| Acrylonitrile | 88 | | 103 | | 70-130 | 16 | | 20 |
| Isopropyl Ether | 102 | | 106 | | 70-130 | 4 | | 20 |
| tert-Butyl Alcohol | 94 | | 113 | | 70-130 | 18 | | 20 |
| Styrene | 118 | | 121 | | 70-130 | 3 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG691588-1 WG691588-2 | | | | | | | | |
| Dichlorodifluoromethane | 73 | | 74 | | 36-147 | 1 | | 20 |
| Acetone | 100 | | 116 | | 58-148 | 15 | | 20 |
| Carbon disulfide | 86 | | 88 | | 51-130 | 2 | | 20 |
| 2-Butanone | 92 | | 107 | | 63-138 | 15 | | 20 |
| Vinyl acetate | 96 | | 108 | | 70-130 | 12 | | 20 |
| 4-Methyl-2-pentanone | 84 | | 96 | | 59-130 | 13 | | 20 |
| 2-Hexanone | 81 | | 95 | | 57-130 | 16 | | 20 |
| Bromochloromethane | 104 | | 107 | | 70-130 | 3 | | 20 |
| 2,2-Dichloropropane | 111 | | 115 | | 63-133 | 4 | | 20 |
| 1,2-Dibromoethane | 94 | | 103 | | 70-130 | 9 | | 20 |
| 1,3-Dichloropropane | 98 | | 106 | | 70-130 | 8 | | 20 |
| 1,1,1,2-Tetrachloroethane | 114 | | 117 | | 64-130 | 3 | | 20 |
| Bromobenzene | 88 | | 90 | | 70-130 | 2 | | 20 |
| n-Butylbenzene | 120 | | 121 | | 53-136 | 1 | | 20 |
| sec-Butylbenzene | 113 | | 114 | | 70-130 | 1 | | 20 |
| tert-Butylbenzene | 107 | | 108 | | 70-130 | 1 | | 20 |
| o-Chlorotoluene | 106 | | 106 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 102 | | 103 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 93 | | 101 | | 41-144 | 8 | | 20 |
| Hexachlorobutadiene | 91 | | 95 | | 63-130 | 4 | | 20 |
| Isopropylbenzene | 95 | | 95 | | 70-130 | 0 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG691588-1 WG691588-2 | | | | | | | | |
| p-Isopropyltoluene | 115 | | 116 | | 70-130 | 1 | | 20 |
| Naphthalene | 76 | | 91 | | 70-130 | 18 | | 20 |
| n-Propylbenzene | 103 | | 104 | | 69-130 | 1 | | 20 |
| 1,2,3-Trichlorobenzene | 77 | | 90 | | 70-130 | 16 | | 20 |
| 1,2,4-Trichlorobenzene | 99 | | 109 | | 70-130 | 10 | | 20 |
| 1,3,5-Trimethylbenzene | 116 | | 118 | | 64-130 | 2 | | 20 |
| 1,2,4-Trimethylbenzene | 110 | | 112 | | 70-130 | 2 | | 20 |
| Methyl Acetate | 84 | | 99 | | 70-130 | 16 | | 20 |
| Ethyl Acetate | 87 | | 101 | | 70-130 | 15 | | 20 |
| Cyclohexane | 111 | | 112 | | 70-130 | 1 | | 20 |
| Ethyl-Tert-Butyl-Ether | 103 | | 109 | | 70-130 | 6 | | 20 |
| Tertiary-Amyl Methyl Ether | 97 | | 105 | | 66-130 | 8 | | 20 |
| 1,4-Dioxane | 92 | | 108 | | 56-162 | 16 | | 20 |
| Freon-113 | 114 | | 115 | | 70-130 | 1 | | 20 |
| 1,4-Diethylbenzene | 115 | | 117 | | 70-130 | 2 | | 20 |
| 4-Ethyltoluene | 109 | | 110 | | 70-130 | 1 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 109 | | 114 | | 70-130 | 4 | | 20 |
| Ethyl ether | 102 | | 109 | | 59-134 | 7 | | 20 |
| trans-1,4-Dichloro-2-butene | 76 | | 88 | | 70-130 | 15 | | 20 |
| Iodomethane | 76 | | 76 | | 70-130 | 0 | | 20 |
| Methyl cyclohexane | 115 | | 116 | | 70-130 | 1 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG691588-1 WG691588-2

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 104 | | 70-130 |
| Toluene-d8 | 98 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 81 | | 70-130 |
| Dibromofluoromethane | 106 | | 105 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,08-09 Batch: WG691705-1 WG691705-2 | | | | | | | | |
| Methylene chloride | 93 | | 92 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | 101 | | 100 | | 70-130 | 1 | | 20 |
| Chloroform | 106 | | 106 | | 70-130 | 0 | | 20 |
| 2-Chloroethylvinyl ether | **64** | Q | **63** | Q | 70-130 | 2 | | 20 |
| Carbon tetrachloride | 108 | | 105 | | 63-132 | 3 | | 20 |
| 1,2-Dichloropropane | 98 | | 97 | | 70-130 | 1 | | 20 |
| Dibromochloromethane | 94 | | 93 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 95 | | 70-130 | 1 | | 20 |
| Tetrachloroethene | 110 | | 107 | | 70-130 | 3 | | 20 |
| Chlorobenzene | 103 | | 101 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 119 | | 115 | | 62-150 | 3 | | 20 |
| 1,2-Dichloroethane | 98 | | 97 | | 70-130 | 1 | | 20 |
| 1,1,1-Trichloroethane | 109 | | 106 | | 67-130 | 3 | | 20 |
| Bromodichloromethane | 98 | | 98 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 96 | | 96 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 93 | | 92 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 105 | | 102 | | 70-130 | 3 | | 20 |
| Bromoform | 81 | | 82 | | 54-136 | 1 | | 20 |
| 1,1,2,2-Tetrachloroethane | 72 | | 73 | | 67-130 | 1 | | 20 |
| Benzene | 100 | | 99 | | 70-130 | 1 | | 20 |
| Toluene | 101 | | 100 | | 70-130 | 1 | | 20 |

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**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,08-09 Batch: WG691705-1 WG691705-2 | | | | | | | | |
| Ethylbenzene | 106 | | 104 | | 70-130 | 2 | | 20 |
| Chloromethane | 106 | | 101 | | 64-130 | 5 | | 20 |
| Bromomethane | 64 | | 68 | | 39-139 | 6 | | 20 |
| Vinyl chloride | 94 | | 91 | | 55-140 | 3 | | 20 |
| Chloroethane | 108 | | 97 | | 55-138 | 11 | | 20 |
| 1,1-Dichloroethene | 104 | | 101 | | 61-145 | 3 | | 20 |
| trans-1,2-Dichloroethene | 103 | | 101 | | 70-130 | 2 | | 20 |
| Trichloroethene | 104 | | 102 | | 70-130 | 2 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 108 | | 107 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 106 | | 106 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 91 | | 92 | | 63-130 | 1 | | 20 |
| p/m-Xylene | 117 | | 115 | | 70-130 | 2 | | 20 |
| o-Xylene | 113 | | 112 | | 70-130 | 1 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 102 | | 70-130 | 2 | | 20 |
| Dibromomethane | 90 | | 90 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 84 | | 82 | | 64-130 | 2 | | 20 |
| Acrylonitrile | 80 | | 79 | | 70-130 | 1 | | 20 |
| Isopropyl Ether | 100 | | 100 | | 70-130 | 0 | | 20 |
| tert-Butyl Alcohol | 81 | | 80 | | 70-130 | 1 | | 20 |
| Styrene | 114 | | 112 | | 70-130 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,08-09 Batch: WG691705-1 WG691705-2 | | | | | | | | |
| Dichlorodifluoromethane | 100 | | 96 | | 36-147 | 4 | | 20 |
| Acetone | 78 | | 78 | | 58-148 | 0 | | 20 |
| Carbon disulfide | 101 | | 98 | | 51-130 | 3 | | 20 |
| 2-Butanone | 81 | | 81 | | 63-138 | 0 | | 20 |
| Vinyl acetate | 91 | | 90 | | 70-130 | 1 | | 20 |
| 4-Methyl-2-pentanone | 73 | | 73 | | 59-130 | 0 | | 20 |
| 2-Hexanone | 70 | | 71 | | 57-130 | 1 | | 20 |
| Bromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 112 | | 109 | | 63-133 | 3 | | 20 |
| 1,2-Dibromoethane | 86 | | 87 | | 70-130 | 1 | | 20 |
| 1,3-Dichloropropane | 90 | | 91 | | 70-130 | 1 | | 20 |
| 1,1,1,2-Tetrachloroethane | 108 | | 107 | | 64-130 | 1 | | 20 |
| Bromobenzene | 85 | | 86 | | 70-130 | 1 | | 20 |
| n-Butylbenzene | 113 | | 110 | | 53-136 | 3 | | 20 |
| sec-Butylbenzene | 107 | | 105 | | 70-130 | 2 | | 20 |
| tert-Butylbenzene | 102 | | 100 | | 70-130 | 2 | | 20 |
| o-Chlorotoluene | 102 | | 101 | | 70-130 | 1 | | 20 |
| p-Chlorotoluene | 98 | | 98 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 84 | | 82 | | 41-144 | 2 | | 20 |
| Hexachlorobutadiene | 81 | | 80 | | 63-130 | 1 | | 20 |
| Isopropylbenzene | 90 | | 89 | | 70-130 | 1 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,08-09 Batch: WG691705-1 WG691705-2 | | | | | | | | |
| p-Isopropyltoluene | 109 | | 107 | | 70-130 | 2 | | 20 |
| Naphthalene | **64** | Q | **64** | Q | 70-130 | 0 | | 20 |
| n-Propylbenzene | 99 | | 97 | | 69-130 | 2 | | 20 |
| 1,2,3-Trichlorobenzene | **66** | Q | **66** | Q | 70-130 | 0 | | 20 |
| 1,2,4-Trichlorobenzene | 89 | | 88 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 111 | | 110 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 105 | | 104 | | 70-130 | 1 | | 20 |
| Methyl Acetate | 81 | | 78 | | 70-130 | 4 | | 20 |
| Ethyl Acetate | 78 | | 78 | | 70-130 | 0 | | 20 |
| Cyclohexane | 111 | | 108 | | 70-130 | 3 | | 20 |
| Ethyl-Tert-Butyl-Ether | 99 | | 99 | | 70-130 | 0 | | 20 |
| Tertiary-Amyl Methyl Ether | 92 | | 92 | | 66-130 | 0 | | 20 |
| 1,4-Dioxane | 80 | | 77 | | 56-162 | 4 | | 20 |
| Freon-113 | 115 | | 112 | | 70-130 | 3 | | 20 |
| 1,4-Diethylbenzene | 110 | | 107 | | 70-130 | 3 | | 20 |
| 4-Ethyltoluene | 105 | | 104 | | 70-130 | 1 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 102 | | 101 | | 70-130 | 1 | | 20 |
| Ethyl ether | 103 | | 101 | | 59-134 | 2 | | 20 |
| trans-1,4-Dichloro-2-butene | **60** | Q | **60** | Q | 70-130 | 0 | | 20 |
| Iodomethane | 86 | | 82 | | 70-130 | 5 | | 20 |
| Methyl cyclohexane | 112 | | 110 | | 70-130 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06,08-09 Batch: WG691705-1 WG691705-2 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | | 96 | | 70-130 |
| Toluene-d8 | 99 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 83 | | 70-130 |
| Dibromofluoromethane | 106 | | 106 | | 70-130 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG691588-4 WG691588-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Methylene chloride | ND | 10 | 9.9 | 99 | | 9.8 | 98 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | ND | 10 | 12 | 118 | | 12 | 116 | | 70-130 | 0 | | 20 |
| Chloroform | ND | 10 | 12 | 118 | | 12 | 116 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | ND | 10 | 12 | 121 | | 12 | 119 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | ND | 10 | 10 | 104 | | 10 | 102 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | ND | 10 | 9.8 | 98 | | 9.5 | 95 | | 63-130 | 3 | | 20 |
| 1,1,2-Trichloroethane | ND | 10 | 10 | 100 | | 9.7 | 97 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | ND | 10 | 11 | 107 | | 11 | 106 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 0.72J | 10 | 11 | 110 | | 11 | 108 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | ND | 10 | 14 | 141 | | 13 | 135 | | 62-150 | 7 | | 20 |
| 1,2-Dichloroethane | ND | 10 | 11 | 108 | | 10 | 104 | | 70-130 | 10 | | 20 |
| 1,1,1-Trichloroethane | ND | 10 | 12 | 122 | | 12 | 118 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | ND | 10 | 11 | 106 | | 10 | 103 | | 67-130 | 10 | | 20 |
| trans-1,3-Dichloropropene | ND | 10 | 9.2 | 92 | | 8.8 | 88 | | 70-130 | 4 | | 20 |
| cis-1,3-Dichloropropene | ND | 10 | 9.0 | 90 | | 8.8 | 88 | | 70-130 | 2 | | 20 |
| 1,1-Dichloropropene | ND | 10 | 11 | 108 | | 10 | 106 | | 70-130 | 10 | | 20 |
| Bromoform | ND | 10 | 8.5 | 85 | | 8.0 | 80 | | 54-136 | 6 | | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 10 | 7.4 | 74 | | 7.0 | 70 | | 67-130 | 6 | | 20 |
| Benzene | ND | 10 | 11 | 109 | | 11 | 107 | | 70-130 | 0 | | 20 |
| Toluene | ND | 10 | 10 | 104 | | 10 | 102 | | 70-130 | 0 | | 20 |
| Ethylbenzene | ND | 10 | 10 | 104 | | 10 | 103 | | 70-130 | 0 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG691588-4 WG691588-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Chloromethane | ND | 10 | 12 | 124 | | 12 | 122 | | 64-130 | 0 | | 20 |
| Bromomethane | ND | 10 | 7.4 | 74 | | 7.9 | 79 | | 39-139 | 7 | | 20 |
| Vinyl chloride | 5.8 | 10 | 15 | 97 | | 15 | 95 | | 55-140 | 0 | | 20 |
| Chloroethane | ND | 10 | 11 | 110 | | 11 | 106 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | ND | 10 | 11 | 112 | | 11 | 107 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | ND | 10 | 11 | 110 | | 11 | 107 | | 70-130 | 0 | | 20 |
| Trichloroethene | 0.17J | 10 | 11 | 110 | | 11 | 109 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 8.7 | 87 | | 8.5 | 85 | | 70-130 | 2 | | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 9.1 | 91 | | 9.0 | 90 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 8.9 | 89 | | 8.9 | 89 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 4.6 | 10 | 15 | 103 | | 14 | 96 | | 63-130 | 7 | | 20 |
| p/m-Xylene | ND | 20 | 23 | 113 | | 22 | 112 | | 70-130 | 4 | | 20 |
| o-Xylene | ND | 20 | 22 | 111 | | 22 | 110 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 2.1J | 10 | 13 | 129 | | 12 | 124 | | 70-130 | 8 | | 20 |
| Dibromomethane | ND | 10 | 9.6 | 96 | | 9.2 | 92 | | 70-130 | 4 | | 20 |
| 1,2,3-Trichloropropane | ND | 10 | 8.5 | 85 | | 8.0 | 80 | | 64-130 | 6 | | 20 |
| Acrylonitrile | ND | 10 | 8.3 | 83 | | 7.7 | 77 | | 70-130 | 8 | | 20 |
| Isopropyl Ether | ND | 10 | 11 | 109 | | 10 | 106 | | 70-130 | 10 | | 20 |
| tert-Butyl Alcohol | ND | 50 | 39 | 78 | | 38 | 75 | | 70-130 | 3 | | 20 |
| Styrene | ND | 20 | 20 | 98 | | 19 | 96 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | ND | 10 | 12 | 121 | | 11 | 110 | | 36-147 | 9 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG691588-4 WG691588-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Acetone | 2.7J | 10 | 11 | 112 | | 11 | 109 | | 58-148 | 0 | | 20 |
| Carbon disulfide | ND | 10 | 10 | 105 | | 10 | 104 | | 51-130 | 0 | | 20 |
| 2-Butanone | ND | 10 | 8.6 | 86 | | 8.0 | 80 | | 63-138 | 7 | | 20 |
| Vinyl acetate | ND | 10 | 9.6 | 96 | | 9.1 | 91 | | 70-130 | 5 | | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 7.4 | 74 | | 7.0 | 70 | | 59-130 | 6 | | 20 |
| 2-Hexanone | ND | 10 | 7.0 | 70 | | 6.6 | 66 | | 57-130 | 6 | | 20 |
| Bromochloromethane | ND | 10 | 11 | 109 | | 10 | 106 | | 70-130 | 10 | | 20 |
| 2,2-Dichloropropane | ND | 10 | 11 | 109 | | 10 | 105 | | 63-133 | 10 | | 20 |
| 1,2-Dibromoethane | ND | 10 | 8.9 | 89 | | 8.5 | 85 | | 70-130 | 5 | | 20 |
| 1,3-Dichloropropane | ND | 10 | 9.5 | 95 | | 9.1 | 91 | | 70-130 | 4 | | 20 |
| 1,1,1,2-Tetrachloroethane | ND | 10 | 11 | 115 | | 11 | 112 | | 64-130 | 0 | | 20 |
| Bromobenzene | ND | 10 | 8.0 | 80 | | 7.8 | 78 | | 70-130 | 3 | | 20 |
| n-Butylbenzene | ND | 10 | 7.2 | 72 | | 7.5 | 75 | | 53-136 | 4 | | 20 |
| sec-Butylbenzene | ND | 10 | 8.0 | 80 | | 8.2 | 82 | | 70-130 | 2 | | 20 |
| tert-Butylbenzene | ND | 10 | 8.5 | 85 | | 8.7 | 87 | | 70-130 | 2 | | 20 |
| o-Chlorotoluene | ND | 10 | 9.2 | 92 | | 9.2 | 92 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | ND | 10 | 8.6 | 87 | | 8.6 | 86 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 5.9 | 59 | | 5.9 | 59 | | 41-144 | 0 | | 20 |
| Hexachlorobutadiene | ND | 10 | 2.5 | **25** | Q | 3.0 | **30** | Q | 63-130 | 18 | | 20 |
| Isopropylbenzene | ND | 10 | 8.3 | 83 | | 8.3 | 83 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | ND | 10 | 8.2 | 82 | | 8.4 | 84 | | 70-130 | 2 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG691588-4 WG691588-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Naphthalene | ND | 10 | 4.9 | **49** | Q | 4.6 | **46** | Q | 70-130 | 6 | | 20 |
| n-Propylbenzene | ND | 10 | 8.5 | 85 | | 8.6 | 86 | | 69-130 | 1 | | 20 |
| 1,2,3-Trichlorobenzene | ND | 10 | 4.0 | **40** | Q | 4.0 | **40** | Q | 70-130 | 0 | | 20 |
| 1,2,4-Trichlorobenzene | ND | 10 | 5.3 | **53** | Q | 5.4 | **54** | Q | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | ND | 10 | 9.5 | 95 | | 9.6 | 96 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | ND | 10 | 9.1 | 91 | | 9.1 | 91 | | 70-130 | 0 | | 20 |
| Methyl Acetate | ND | 10 | 7.9 | 79 | | 7.4 | 74 | | 70-130 | 7 | | 20 |
| Ethyl Acetate | ND | 10 | 7.9J | 79 | | 7.4J | 74 | | 70-130 | 7 | | 20 |
| Cyclohexane | ND | 10 | 11 | 109 | | 11 | 107 | | 70-130 | 0 | | 20 |
| Ethyl-Tert-Butyl-Ether | ND | 10 | 10 | 106 | | 10 | 103 | | 70-130 | 0 | | 20 |
| Tertiary-Amyl Methyl Ether | ND | 10 | 9.7 | 97 | | 9.4 | 94 | | 66-130 | 3 | | 20 |
| 1,4-Dioxane | ND | 500 | 350 | 71 | | 340 | 68 | | 56-162 | 3 | | 20 |
| Freon-113 | ND | 10 | 12 | 124 | | 12 | 118 | | 70-130 | 0 | | 20 |
| 1,4-Diethylbenzene | ND | 10 | 7.8 | 78 | | 8.0 | 80 | | 70-130 | 3 | | 20 |
| 4-Ethyltoluene | ND | 10 | 9.1 | 91 | | 9.2 | 92 | | 70-130 | 1 | | 20 |
| 1,2,4,5-Tetramethylbenzene | ND | 10 | 7.3 | 74 | | 7.6 | 76 | | 70-130 | 4 | | 20 |
| Ethyl ether | ND | 10 | 11 | 110 | | 10 | 104 | | 59-134 | 10 | | 20 |
| trans-1,4-Dichloro-2-butene | ND | 10 | 4.4 | **44** | Q | 3.9 | **39** | Q | 70-130 | 12 | | 20 |
| Iodomethane | ND | 10 | 14 | **141** | Q | 16 | **157** | Q | 70-130 | 13 | | 20 |
| Methyl cyclohexane | ND | 10 | 8.6J | 86 | | 9.0J | 90 | | 70-130 | 5 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 QC Batch ID: WG691588-4 WG691588-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 97 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 82 | | 70-130 |
| Dibromofluoromethane | 107 | | 107 | | 70-130 |
| Toluene-d8 | 98 | | 98 | | 70-130 |

# PCBS

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-01 | Date Collected: | 05/14/14 10:55 |
| Client ID: | MW-4 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 17:13 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | 0.110 | | ug/l | 0.083 | 0.051 | 1 | B |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | 0.110 | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | B |
| Decachlorobiphenyl | 56 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 53 | | 30-150 | A |
| Decachlorobiphenyl | 51 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-02 | Date Collected: | 05/14/14 11:55 |
| Client ID: | MW-5 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 17:25 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | 0.195 | | ug/l | 0.083 | 0.051 | 1 | B |
| Aroclor 1254 | 0.170 | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | 0.084 | | ug/l | 0.083 | 0.032 | 1 | B |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | 0.449 | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 56 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 66 | | 30-150 | A |
| Decachlorobiphenyl | 53 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-03 | Date Collected: | 05/14/14 13:00 |
| Client ID: | MW-6 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/20/14 17:12 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | 0.279 | | ug/l | 0.083 | 0.060 | 1 | B |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | 1 | A |
| Aroclor 1254 | 0.187 | | ug/l | 0.083 | 0.034 | 1 | B |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | 0.466 | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 58 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-04 | Date Collected: | 05/14/14 14:00 |
| Client ID: | MW-2R | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 18:39 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | 1 | A |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | ND | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | B |
| Decachlorobiphenyl | 40 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 38 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-05 | Date Collected: | 05/14/14 15:10 |
| Client ID: | MW-7 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 18:51 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | 1 | A |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | ND | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | B |
| Decachlorobiphenyl | 60 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 58 | | 30-150 | A |
| Decachlorobiphenyl | 57 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-06 | Date Collected: | 05/14/14 15:55 |
| Client ID: | MW-8 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 19:03 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | 1 | A |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | ND | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 53 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 80 | | 30-150 | A |
| Decachlorobiphenyl | 52 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-07 | Date Collected: | 05/14/14 16:50 |
| Client ID: | MW-1 | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | See Narrative |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 19:16 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | 0.768 | | ug/l | 0.083 | 0.051 | 1 | B |
| Aroclor 1254 | 0.416 | | ug/l | 0.083 | 0.034 | 1 | B |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | 1.18 | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 51 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 48 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

## SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1410493-08 | Date Collected: | 05/14/14 00:00 |
| Client ID: | DUPLICATE | Date Received: | 05/15/14 |
| Sample Location: | BROOKLYN, NY | Field Prep: | Not Specified |
| Matrix: | Water | Extraction Method: | EPA 3510C |
| Analytical Method: | 1,8082A | Extraction Date: | 05/18/14 18:09 |
| Analytical Date: | 05/19/14 19:28 | Cleanup Method1: | EPA 3665A |
| Analyst: | JW | Cleanup Date1: | 05/19/14 |
| | | Cleanup Method2: | EPA 3660B |
| | | Cleanup Date2: | 05/19/14 |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by GC - Westborough Lab** | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | 1 | A |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | 1 | A |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | 1 | A |
| PCBs, Total | ND | | ug/l | 0.083 | 0.029 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 56 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 30-150 | A |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/19/14 17:37
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/18/14 18:09
Cleanup Method1: EPA 3665A
Cleanup Date1: 05/19/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 05/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08 Batch: WG690509-1 | | | | | | |
| Aroclor 1016 | ND | | ug/l | 0.083 | 0.055 | A |
| Aroclor 1221 | ND | | ug/l | 0.083 | 0.053 | A |
| Aroclor 1232 | ND | | ug/l | 0.083 | 0.031 | A |
| Aroclor 1242 | ND | | ug/l | 0.083 | 0.060 | A |
| Aroclor 1248 | ND | | ug/l | 0.083 | 0.051 | A |
| Aroclor 1254 | ND | | ug/l | 0.083 | 0.034 | A |
| Aroclor 1260 | ND | | ug/l | 0.083 | 0.032 | A |
| Aroclor 1262 | ND | | ug/l | 0.083 | 0.029 | A |
| Aroclor 1268 | ND | | ug/l | 0.083 | 0.038 | A |
| PCBs, Total | ND | | ug/l | 0.083 | 0.029 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 59 | | 30-150 | A |
| Decachlorobiphenyl | 63 | | 30-150 | B |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690509-4 WG690509-5 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 2.6 | 2.38 | 91 | | 2.40 | 92 | | 40-140 | 1 | | 50 | A |
| Aroclor 1260 | ND | 2.6 | 1.43 | 55 | | 1.51 | 58 | | 40-140 | 5 | | 50 | A |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 68 | | 30-150 | B |
| Decachlorobiphenyl | 44 | | 50 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 62 | | 30-150 | A |
| Decachlorobiphenyl | 32 | | 41 | | 30-150 | A |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|---|---|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG690509-2 WG690509-3 | | | | | | | | | |
| Aroclor 1016 | 71 | | 81 | | 40-140 | 13 | | 50 | A |
| Aroclor 1260 | 59 | | 67 | | 40-140 | 13 | | 50 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 77 | | 30-150 | B |
| Decachlorobiphenyl | 64 | | 66 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 70 | | 30-150 | A |
| Decachlorobiphenyl | 60 | | 63 | | 30-150 | A |

# METALS

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-01 Date Collected: 05/14/14 10:55

Client ID: MW-4 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 0.103 | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00291 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.00974 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.09203 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00005 | J | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 272. | | mg/l | 10.0 | 3.20 | 100 | 05/19/14 14:04 | 05/21/14 15:18 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.00077 | J | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00036 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.00112 | J | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 0.186 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.00312 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 6.60 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 0.00531 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:28 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.00356 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 70.7 | | mg/l | 2.00 | 0.540 | 20 | 05/19/14 14:04 | 05/21/14 12:43 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00055 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 303. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 12:43 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.00092 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.01378 | | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 14:45 | EPA 3005A | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-02 Date Collected: 05/14/14 11:55

Client ID: MW-5 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 2.38 | | mg/l | 0.200 | 0.0400 | 20 | 05/19/14 14:04 | 05/21/14 12:57 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00301 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.01191 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.1264 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | 0.00012 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00156 | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 243. | | mg/l | 20.0 | 6.40 | 200 | 05/19/14 14:04 | 05/21/14 15:32 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.00836 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00384 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.04990 | | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 16.4 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.2448 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 147. | | mg/l | 1.40 | 0.0486 | 20 | 05/19/14 14:04 | 05/21/14 12:57 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 1.020 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 12:57 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | 0.00602 | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:30 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.02693 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 75.3 | | mg/l | 2.00 | 0.540 | 20 | 05/19/14 14:04 | 05/21/14 12:57 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00077 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Silver, Total | 0.00017 | J | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 1140 | | mg/l | 20.0 | 3.00 | 200 | 05/19/14 14:04 | 05/21/14 15:32 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | 0.00006 | J | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.01203 | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:49 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.7366 | | mg/l | 0.2000 | 0.02400 | 20 | 05/19/14 14:04 | 05/21/14 12:57 | EPA 3005A | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-03 Date Collected: 05/14/14 13:00

Client ID: MW-6 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 0.137 | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00309 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.00755 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.1048 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00093 | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 292. | | mg/l | 20.0 | 6.40 | 200 | 05/19/14 14:04 | 05/21/14 15:36 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.00397 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00453 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.00364 | | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 5.82 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.00928 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 46.3 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 1.526 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 14:52 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:32 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.02281 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 61.1 | | mg/l | 2.00 | 0.540 | 20 | 05/19/14 14:04 | 05/21/14 14:52 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00051 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 385. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 14:52 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.00266 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 14:56 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.8196 | | mg/l | 0.2000 | 0.02400 | 20 | 05/19/14 14:04 | 05/21/14 14:52 | EPA 3005A | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-04
Client ID: MW-2R
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 14:00
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 0.404 | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00312 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.03636 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.1928 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | 0.00010 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00019 | J | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 88.1 | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 14:04 | 05/21/14 15:00 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.01050 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00118 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.02021 | | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 58.6 | | mg/l | 1.00 | 0.260 | 20 | 05/19/14 14:04 | 05/21/14 15:00 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.07318 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 33.9 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 0.3747 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | 0.00038 | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:34 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.00341 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 14.4 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00053 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 142. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 15:00 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.00659 | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.06819 | | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 15:03 | EPA 3005A | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-05
Client ID: MW-7
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 15:10
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 0.00289 | J | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00052 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.00140 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.08568 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | ND | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 109. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 14:04 | 05/21/14 13:19 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.00099 | J | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00115 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.00113 | J | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 3.17 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Lead, Total | ND | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 7.04 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 0.8236 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 13:19 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:35 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.1219 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 9.02 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | ND | | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 153. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 13:19 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | ND | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.00903 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 15:07 | EPA 3005A | 1,6020A | KL |
| **Dissolved Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Dissolved | 0.0683 | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Antimony, Dissolved | 0.00075 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Arsenic, Dissolved | 0.00508 | | mg/l | 0.00050 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Barium, Dissolved | 0.1193 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Beryllium, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Cadmium, Dissolved | 0.00005 | J | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-05
Client ID: MW-7
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 15:10
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium, Dissolved | 118. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 04:44 | 05/21/14 02:06 | NA | 1,6020A | BM |
| Chromium, Dissolved | 0.02334 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Cobalt, Dissolved | 0.00128 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Copper, Dissolved | 0.00131 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Iron, Dissolved | 13.4 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Lead, Dissolved | 0.00224 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Magnesium, Dissolved | 8.24 | | mg/l | 0.0700 | 0.0230 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Manganese, Dissolved | 0.8538 | | mg/l | 0.02000 | 0.00200 | 20 | 05/19/14 04:44 | 05/21/14 02:06 | NA | 1,6020A | BM |
| Mercury, Dissolved | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/21/14 11:14 | 05/21/14 14:04 | EPA 7470A | 1,7470A | AK |
| Nickel, Dissolved | 0.1359 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Potassium, Dissolved | 10.4 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Selenium, Dissolved | 0.00059 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Silver, Dissolved | 0.00013 | J | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Sodium, Dissolved | 175. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 04:44 | 05/21/14 02:06 | NA | 1,6020A | BM |
| Thallium, Dissolved | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Vanadium, Dissolved | 0.00054 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |
| Zinc, Dissolved | 0.00631 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 04:44 | 05/21/14 02:00 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-06 Date Collected: 05/14/14 15:55

Client ID: MW-8 Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: See Narrative

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 0.230 | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00050 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.00039 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.3761 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00065 | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 221. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 14:04 | 05/21/14 13:26 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.00129 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00021 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.00136 | J | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 25.8 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.00272 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 10.0 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 1.180 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 13:26 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:41 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.00093 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 15.9 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | ND | | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 504. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 13:26 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.00215 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.00677 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 15:10 | EPA 3005A | 1,6020A | KL |
| **Dissolved Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Dissolved | 0.00395 | J | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Antimony, Dissolved | 0.00019 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Arsenic, Dissolved | 0.00089 | | mg/l | 0.00050 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Barium, Dissolved | 0.3669 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Beryllium, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Cadmium, Dissolved | ND | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-06
Client ID: MW-8
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 15:55
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium, Dissolved | 217. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 04:44 | 05/21/14 02:18 | NA | 1,6020A | BM |
| Chromium, Dissolved | 0.00156 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Cobalt, Dissolved | 0.00033 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Copper, Dissolved | 0.00068 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Iron, Dissolved | 19.4 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Lead, Dissolved | ND | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Magnesium, Dissolved | 11.6 | | mg/l | 0.0700 | 0.0230 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Manganese, Dissolved | 0.9718 | | mg/l | 0.02000 | 0.00200 | 20 | 05/19/14 04:44 | 05/21/14 02:18 | NA | 1,6020A | BM |
| Mercury, Dissolved | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/21/14 11:14 | 05/21/14 14:06 | EPA 7470A | 1,7470A | AK |
| Nickel, Dissolved | 0.00329 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Potassium, Dissolved | 17.8 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Selenium, Dissolved | 0.00108 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Silver, Dissolved | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Sodium, Dissolved | 500. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 04:44 | 05/21/14 02:18 | NA | 1,6020A | BM |
| Thallium, Dissolved | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Vanadium, Dissolved | 0.00048 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |
| Zinc, Dissolved | 0.00382 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 04:44 | 05/21/14 02:12 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-07
Client ID: MW-1
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 16:50
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 2.71 | | mg/l | 0.200 | 0.0400 | 20 | 05/19/14 14:04 | 05/21/14 12:25 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00653 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.00426 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.2187 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | 0.00017 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00083 | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 166. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 14:04 | 05/21/14 12:25 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.03547 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00358 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.06606 | | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 21.5 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.1474 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 29.1 | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 2.458 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 12:25 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | 0.00327 | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:10 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.03045 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 13.9 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00103 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Silver, Total | 0.00066 | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 290. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 14:04 | 05/21/14 12:25 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | 0.00004 | J | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.00955 | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 0.2982 | | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 12:28 | EPA 3005A | 1,6020A | KL |
| **Dissolved Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Dissolved | 0.00960 | J | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Antimony, Dissolved | 0.00017 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Arsenic, Dissolved | 0.00168 | | mg/l | 0.00050 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Barium, Dissolved | 0.1758 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Beryllium, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Cadmium, Dissolved | ND | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Lab Number:** L1410493
**Project Number:** 86-16480
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-07
Client ID: MW-1
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 16:50
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium, Dissolved | 193. | | mg/l | 2.00 | 0.640 | 20 | 05/19/14 04:44 | 05/21/14 01:22 | NA | 1,6020A | BM |
| Chromium, Dissolved | 0.00334 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Cobalt, Dissolved | 0.00082 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Copper, Dissolved | 0.00064 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Iron, Dissolved | 7.47 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Lead, Dissolved | ND | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Magnesium, Dissolved | 27.3 | | mg/l | 0.0700 | 0.0230 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Manganese, Dissolved | 2.728 | | mg/l | 0.02000 | 0.00200 | 20 | 05/19/14 04:44 | 05/21/14 01:22 | NA | 1,6020A | BM |
| Mercury, Dissolved | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/21/14 11:14 | 05/21/14 13:32 | EPA 7470A | 1,7470A | AK |
| Nickel, Dissolved | 0.00743 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Potassium, Dissolved | 14.2 | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Selenium, Dissolved | 0.00129 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Silver, Dissolved | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Sodium, Dissolved | 356. | | mg/l | 2.00 | 0.300 | 20 | 05/19/14 04:44 | 05/21/14 01:22 | NA | 1,6020A | BM |
| Thallium, Dissolved | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Vanadium, Dissolved | 0.00035 | J | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |
| Zinc, Dissolved | 0.00248 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 04:44 | 05/21/14 01:16 | NA | 1,6020A | BM |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

**SAMPLE RESULTS**

Lab ID: L1410493-08 Date Collected: 05/14/14 00:00

Client ID: DUPLICATE Date Received: 05/15/14

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Westborough Lab** | | | | | | | | | | | |
| Aluminum, Total | 4.07 | | mg/l | 0.200 | 0.0400 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |
| Antimony, Total | 0.00421 | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Arsenic, Total | 0.01991 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Barium, Total | 0.1675 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Beryllium, Total | 0.00021 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Cadmium, Total | 0.00245 | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Calcium, Total | 240. | | mg/l | 20.0 | 6.40 | 200 | 05/19/14 14:04 | 05/21/14 15:39 | EPA 3005A | 1,6020A | KL |
| Chromium, Total | 0.01457 | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Cobalt, Total | 0.00666 | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Copper, Total | 0.08829 | | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Iron, Total | 30.6 | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Lead, Total | 0.3756 | | mg/l | 0.02000 | 0.00400 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |
| Magnesium, Total | 137. | | mg/l | 1.40 | 0.0486 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |
| Manganese, Total | 1.016 | | mg/l | 0.01000 | 0.00200 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |
| Mercury, Total | 0.01250 | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:43 | EPA 7470A | 1,7470A | AK |
| Nickel, Total | 0.04552 | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Potassium, Total | 70.0 | | mg/l | 2.00 | 0.540 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |
| Selenium, Total | 0.00118 | J | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Silver, Total | 0.00033 | J | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Sodium, Total | 1130 | | mg/l | 20.0 | 3.00 | 200 | 05/19/14 14:04 | 05/21/14 15:39 | EPA 3005A | 1,6020A | KL |
| Thallium, Total | 0.00011 | J | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Vanadium, Total | 0.02213 | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 15:29 | EPA 3005A | 1,6020A | KL |
| Zinc, Total | 1.320 | | mg/l | 0.2000 | 0.02400 | 20 | 05/19/14 14:04 | 05/21/14 15:14 | EPA 3005A | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab for sample(s): 01-08 Batch: WG690381-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/17/14 10:01 | 05/17/14 13:01 | 1,7470A | AK |

**Prep Information**

Digestion Method: EPA 7470A

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab for sample(s): 01-08 Batch: WG690695-1 | | | | | | | | | | |
| Aluminum, Total | ND | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Antimony, Total | 0.00047 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Arsenic, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Barium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Beryllium, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Cadmium, Total | ND | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Calcium, Total | ND | | mg/l | 0.100 | 0.0320 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Chromium, Total | 0.00037 | J | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Cobalt, Total | ND | | mg/l | 0.00020 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Copper, Total | 0.00168 | J | mg/l | 0.00200 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Iron, Total | ND | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Lead, Total | ND | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Magnesium, Total | ND | | mg/l | 0.0700 | 0.00243 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Manganese, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Nickel, Total | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Potassium, Total | ND | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Selenium, Total | ND | | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Silver, Total | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Sodium, Total | 0.0667 | J | mg/l | 0.100 | 0.0150 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Thallium, Total | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Vanadium, Total | ND | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |
| Zinc, Total | 0.00440 | J | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 14:04 | 05/21/14 12:10 | 1,6020A | KL |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
# Batch Quality Control

**Prep Information**

Digestion Method: EPA 3005A

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab for sample(s): 05-07 Batch: WG690757-1 | | | | | | | | | | |
| Aluminum, Dissolved | ND | | mg/l | 0.0100 | 0.00200 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Antimony, Dissolved | 0.00012 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Arsenic, Dissolved | ND | | mg/l | 0.00050 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Barium, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Beryllium, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Cadmium, Dissolved | ND | | mg/l | 0.00020 | 0.00005 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Calcium, Dissolved | ND | | mg/l | 0.100 | 0.0320 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Chromium, Dissolved | 0.00045 | J | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Cobalt, Dissolved | ND | | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Copper, Dissolved | ND | | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Iron, Dissolved | ND | | mg/l | 0.0500 | 0.0130 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Lead, Dissolved | ND | | mg/l | 0.00100 | 0.00020 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Magnesium, Dissolved | ND | | mg/l | 0.0700 | 0.0230 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Manganese, Dissolved | 0.00011 | J | mg/l | 0.00100 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Nickel, Dissolved | 0.00011 | J | mg/l | 0.00050 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Potassium, Dissolved | ND | | mg/l | 0.100 | 0.0270 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Selenium, Dissolved | ND | | mg/l | 0.00500 | 0.00030 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Silver, Dissolved | ND | | mg/l | 0.00040 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Sodium, Dissolved | 0.0273 | J | mg/l | 0.100 | 0.0150 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Thallium, Dissolved | ND | | mg/l | 0.00050 | 0.00003 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Vanadium, Dissolved | ND | | mg/l | 0.00500 | 0.00010 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |
| Zinc, Dissolved | ND | | mg/l | 0.01000 | 0.00120 | 1 | 05/19/14 04:44 | 05/21/14 00:38 | 1,6020A | BM |

**Prep Information**

Digestion Method: NA

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab for sample(s): 05-07 Batch: WG691328-1 | | | | | | | | | | |
| Mercury, Dissolved | ND | | mg/l | 0.00020 | 0.00006 | 1 | 05/21/14 11:14 | 05/21/14 13:28 | 1,7470A | AK |

**Prep Information**

Digestion Method: EPA 7470A

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG690381-2 | | | | | | | | |
| Mercury, Total | 109 | | - | | 80-120 | - | | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG690695-2 | | | | | |
| Aluminum, Total | 96 | - | 80-120 | - | |
| Antimony, Total | 110 | - | 80-120 | - | |
| Arsenic, Total | 106 | - | 80-120 | - | |
| Barium, Total | 101 | - | 80-120 | - | |
| Beryllium, Total | 99 | - | 80-120 | - | |
| Cadmium, Total | 111 | - | 80-120 | - | |
| Calcium, Total | 100 | - | 80-120 | - | |
| Chromium, Total | 103 | - | 80-120 | - | |
| Cobalt, Total | 105 | - | 80-120 | - | |
| Copper, Total | 105 | - | 80-120 | - | |
| Iron, Total | 100 | - | 80-120 | - | |
| Lead, Total | 109 | - | 80-120 | - | |
| Magnesium, Total | 107 | - | 80-120 | - | |
| Manganese, Total | 104 | - | 80-120 | - | |
| Nickel, Total | 103 | - | 80-120 | - | |
| Potassium, Total | 114 | - | 80-120 | - | |
| Selenium, Total | 109 | - | 80-120 | - | |
| Silver, Total | 101 | - | 80-120 | - | |
| Sodium, Total | 117 | - | 80-120 | - | |
| Thallium, Total | 99 | - | 80-120 | - | |
| Vanadium, Total | 105 | - | 80-120 | - | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG690695-2 | | | | | |
| Zinc, Total | 107 | - | 80-120 | - | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 Batch: WG690757-2 | | | | | |
| Aluminum, Dissolved | 114 | - | 80-120 | - | |
| Antimony, Dissolved | 89 | - | 80-120 | - | |
| Arsenic, Dissolved | 97 | - | 80-120 | - | |
| Barium, Dissolved | 94 | - | 80-120 | - | |
| Beryllium, Dissolved | 88 | - | 80-120 | - | |
| Cadmium, Dissolved | 104 | - | 80-120 | - | |
| Calcium, Dissolved | 100 | - | 80-120 | - | |
| Chromium, Dissolved | 92 | - | 80-120 | - | |
| Cobalt, Dissolved | 94 | - | 80-120 | - | |
| Copper, Dissolved | 95 | - | 80-120 | - | |
| Iron, Dissolved | 89 | - | 80-120 | - | |
| Lead, Dissolved | 97 | - | 80-120 | - | |
| Magnesium, Dissolved | 110 | - | 80-120 | - | |
| Manganese, Dissolved | 93 | - | 80-120 | - | |
| Nickel, Dissolved | 94 | - | 80-120 | - | |
| Potassium, Dissolved | 102 | - | 80-120 | - | |
| Selenium, Dissolved | 108 | - | 80-120 | - | |
| Silver, Dissolved | 96 | - | 80-120 | - | |
| Sodium, Dissolved | 110 | - | 80-120 | - | |
| Thallium, Dissolved | 96 | - | 80-120 | - | |
| Vanadium, Dissolved | 97 | - | 80-120 | - | |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 Batch: WG690757-2 | | | | | |
| Zinc, Dissolved | 101 | - | 80-120 | - | |
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 Batch: WG691328-2 | | | | | |
| Mercury, Dissolved | 116 | - | 70-130 | - | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690381-3 WG690381-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Mercury, Total | 0.00327 | 0.005 | 0.00825 | 100 | | 0.00831 | 101 | | 75-125 | 1 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | | MSD Found | MSD %Recovery | | Recovery Limits | RPD | | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690695-3 WG690695-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Aluminum, Total | 2.71 | 2 | 4.81 | 105 | | 4.81 | 105 | | 75-125 | 0 | | 20 |
| Antimony, Total | 0.00653 | 0.5 | 0.5208 | 99 | | 0.5144 | 98 | | 75-125 | 1 | | 20 |
| Arsenic, Total | 0.00426 | 0.12 | 0.1232 | 103 | | 0.1264 | 105 | | 75-125 | 3 | | 20 |
| Barium, Total | 0.2187 | 2 | 2.190 | 99 | | 2.176 | 98 | | 75-125 | 1 | | 20 |
| Beryllium, Total | 0.00017J | 0.05 | 0.05148 | 103 | | 0.05178 | 104 | | 75-125 | 1 | | 20 |
| Cadmium, Total | 0.00083 | 0.051 | 0.05458 | 107 | | 0.05752 | 113 | | 75-125 | 5 | | 20 |
| Calcium, Total | 166. | 10 | 172 | **60** | Q | 168 | **20** | Q | 75-125 | 2 | | 20 |
| Chromium, Total | 0.03547 | 0.2 | 0.2288 | 96 | | 0.2324 | 98 | | 75-125 | 2 | | 20 |
| Cobalt, Total | 0.00358 | 0.5 | 0.5018 | 100 | | 0.5000 | 100 | | 75-125 | 0 | | 20 |
| Copper, Total | 0.06606 | 0.25 | 0.3138 | 97 | | 0.3150 | 97 | | 75-125 | 0 | | 20 |
| Iron, Total | 21.5 | 1 | 22.1 | **20** | Q | 21.6 | **0** | Q | 75-125 | 2 | | 20 |
| Lead, Total | 0.1474 | 0.51 | 0.6784 | 105 | | 0.6714 | 104 | | 75-125 | 1 | | 20 |
| Magnesium, Total | 29.1 | 10 | 29.7 | **0** | Q | 47.1 | 114 | | 75-125 | **45** | Q | 20 |
| Manganese, Total | 2.458 | 0.5 | 2.834 | 75 | | 2.786 | **66** | Q | 75-125 | 2 | | 20 |
| Nickel, Total | 0.03045 | 0.5 | 0.5256 | 98 | | 0.5200 | 97 | | 75-125 | 1 | | 20 |
| Potassium, Total | 13.9 | 10 | 19.6 | **25** | Q | 28.8 | 117 | | 75-125 | **38** | Q | 20 |
| Selenium, Total | 0.00103J | 0.12 | 0.0487 | **40** | Q | 0.0552 | **46** | Q | 75-125 | 13 | | 20 |
| Silver, Total | 0.00066 | 0.05 | 0.04964 | 99 | | 0.04894 | 98 | | 75-125 | 1 | | 20 |
| Sodium, Total | 290. | 10 | 292 | **20** | Q | 282 | **0** | Q | 75-125 | 3 | | 20 |
| Thallium, Total | 0.00004J | 0.12 | 0.1172 | 98 | | 0.1179 | 98 | | 75-125 | 1 | | 20 |
| Vanadium, Total | 0.00955 | 0.5 | 0.5110 | 102 | | 0.5142 | 103 | | 75-125 | 1 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690695-3 WG690695-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | |
| Zinc, Total | 0.2982 | 0.5 | 0.8092 | 101 | 0.8178 | 103 | 75-125 | 1 | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | | MSD Found | MSD %Recovery | | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG690757-3 WG690757-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | |
| Aluminum, Dissolved | 0.00960J | 2 | 2.26 | 113 | | 2.26 | 113 | | 75-125 | 0 | 20 |
| Antimony, Dissolved | 0.00017J | 0.5 | 0.5406 | 108 | | 0.5390 | 108 | | 75-125 | 0 | 20 |
| Arsenic, Dissolved | 0.00168 | 0.12 | 0.1298 | 107 | | 0.1270 | 104 | | 75-125 | 2 | 20 |
| Barium, Dissolved | 0.1758 | 2 | 2.228 | 103 | | 2.242 | 103 | | 75-125 | 1 | 20 |
| Beryllium, Dissolved | ND | 0.05 | 0.04854 | 97 | | 0.04918 | 98 | | 75-125 | 1 | 20 |
| Cadmium, Dissolved | ND | 0.051 | 0.05660 | 111 | | 0.05682 | 111 | | 75-125 | 0 | 20 |
| Calcium, Dissolved | 193. | 10 | 192 | **0** | Q | 195 | **20** | Q | 75-125 | 2 | 20 |
| Chromium, Dissolved | 0.00334 | 0.2 | 0.2026 | 100 | | 0.2004 | 98 | | 75-125 | 1 | 20 |
| Cobalt, Dissolved | 0.00082 | 0.5 | 0.5036 | 100 | | 0.4978 | 99 | | 75-125 | 1 | 20 |
| Copper, Dissolved | 0.00064J | 0.25 | 0.2512 | 100 | | 0.2500 | 100 | | 75-125 | 0 | 20 |
| Iron, Dissolved | 7.47 | 1 | 8.22 | 75 | | 8.32 | 85 | | 75-125 | 1 | 20 |
| Lead, Dissolved | ND | 0.51 | 0.5360 | 105 | | 0.5390 | 106 | | 75-125 | 1 | 20 |
| Magnesium, Dissolved | 27.3 | 10 | 41.7 | **144** | Q | 42.1 | **148** | Q | 75-125 | 1 | 20 |
| Manganese, Dissolved | 2.728 | 0.5 | 3.234 | 101 | | 3.270 | 108 | | 75-125 | 1 | 20 |
| Nickel, Dissolved | 0.00743 | 0.5 | 0.5082 | 100 | | 0.5060 | 100 | | 75-125 | 0 | 20 |
| Potassium, Dissolved | 14.2 | 10 | 26.0 | 118 | | 26.1 | 119 | | 75-125 | 0 | 20 |
| Selenium, Dissolved | 0.00129J | 0.12 | 0.121 | 101 | | 0.126 | 105 | | 75-125 | 4 | 20 |
| Silver, Dissolved | ND | 0.05 | 0.05048 | 101 | | 0.05024 | 100 | | 75-125 | 0 | 20 |
| Sodium, Dissolved | 356. | 10 | 344 | **0** | Q | 346 | **0** | Q | 75-125 | 1 | 20 |
| Thallium, Dissolved | ND | 0.12 | 0.1261 | 105 | | 0.1271 | 106 | | 75-125 | 1 | 20 |
| Vanadium, Dissolved | 0.00035J | 0.5 | 0.5318 | 106 | | 0.5262 | 105 | | 75-125 | 1 | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG690757-3 WG690757-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | |
| Zinc, Dissolved | 0.00248J | 0.5 | 0.5290 | 106 | 0.5280 | 106 | 75-125 | 0 | 20 |
| Dissolved Metals - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG691328-3 WG691328-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | |
| Mercury, Dissolved | ND | 0.005 | 0.00578 | 116 | 0.00583 | 117 | 75-125 | 1 | 20 |

# INORGANICS
# &
# MISCELLANEOUS

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-01
Client ID: MW-4
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 10:55
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 186. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 460 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 12:16 | 1,9251 | LA |
| Chemical Oxygen Demand | 150 | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | ND | | mg/l | 5.0 | NA | 2.5 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 52.1 | | mg/l | 25.0 | 5.90 | 50 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-02
Client ID: MW-5
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 11:55
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 387. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 1400 | | mg/l | 100 | 20. | 100 | - | 05/21/14 13:15 | 1,9251 | LA |
| Chemical Oxygen Demand | 220 | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | 13. | | mg/l | 5.0 | NA | 2.5 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 23.2 | | mg/l | 5.00 | 1.18 | 10 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-03
Client ID: MW-6
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 13:00
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 560. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 620 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 13:19 | 1,9251 | LA |
| Chemical Oxygen Demand | 320 | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | 26. | | mg/l | 5.0 | NA | 2.5 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 35.1 | | mg/l | 5.00 | 1.18 | 10 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-04
Client ID: MW-2R
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 14:00
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 312. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 270 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 12:24 | 1,9251 | LA |
| Chemical Oxygen Demand | 74. | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | ND | | mg/l | 10 | NA | 5 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 11.2 | | mg/l | 5.00 | 1.18 | 10 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-05
Client ID: MW-7
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 15:10
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 330. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 250 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 11:15 | 1,9251 | LA |
| Chemical Oxygen Demand | 35. | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | 14. | | mg/l | 2.0 | NA | 1 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 6.44 | | mg/l | 2.50 | 0.590 | 5 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-06
Client ID: MW-8
Sample Location: BROOKLYN, NY
Matrix: Water

Date Collected: 05/14/14 15:55
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 575. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 740 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 12:26 | 1,9251 | LA |
| Chemical Oxygen Demand | 49. | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | 3.4 | | mg/l | 2.0 | NA | 1 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 7.62 | | mg/l | 2.50 | 0.590 | 5 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-07
Client ID: MW-1
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 16:50
Date Received: 05/15/14
Field Prep: See Narrative

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 400. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 600 | | mg/l | 10 | 2.0 | 10 | - | 05/21/14 12:28 | 1,9251 | LA |
| Chemical Oxygen Demand | 1300 | | mg/l | 40 | 7.0 | 2 | 05/17/14 08:05 | 05/17/14 11:29 | 30,5220D | TL |
| BOD, 5 day | ND | | mg/l | 50 | NA | 25 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 10.6 | | mg/l | 5.00 | 1.18 | 10 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480
**Lab Number:** L1410493
**Report Date:** 05/23/14

## SAMPLE RESULTS

Lab ID: L1410493-08
Client ID: DUPLICATE
Sample Location: BROOKLYN, NY
Matrix: Water
Date Collected: 05/14/14 00:00
Date Received: 05/15/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 391. | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| Chloride | 1300 | | mg/l | 100 | 20. | 100 | - | 05/21/14 13:21 | 1,9251 | LA |
| Chemical Oxygen Demand | 230 | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:30 | 30,5220D | TL |
| BOD, 5 day | 23. | | mg/l | 5.0 | NA | 2.5 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| Total Organic Carbon | 22.7 | | mg/l | 5.00 | 1.18 | 10 | - | 05/19/14 07:10 | 30,5310C | DW |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE **Lab Number:** L1410493

**Project Number:** 86-16480 **Report Date:** 05/23/14

# Method Blank Analysis
## Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG690036-1 | | | | | | | | | | |
| BOD, 5 day | ND | | mg/l | 2.0 | NA | 1 | 05/16/14 05:00 | 05/20/14 22:00 | 30,5210B | DE |
| General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG690373-1 | | | | | | | | | | |
| Chemical Oxygen Demand | ND | | mg/l | 20 | 3.5 | 1 | 05/17/14 08:05 | 05/17/14 11:25 | 30,5220D | TL |
| General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG690731-1 | | | | | | | | | | |
| Total Organic Carbon | ND | | mg/l | 0.500 | 0.118 | 1 | - | 05/19/14 07:10 | 30,5310C | DW |
| General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG691108-1 | | | | | | | | | | |
| Alkalinity, Total | ND | | mg CaCO3/L | 2.00 | NA | 1 | - | 05/20/14 11:33 | 30,2320B | SD |
| General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG691249-1 | | | | | | | | | | |
| Chloride | ND | | mg/l | 1.0 | 0.20 | 1 | - | 05/21/14 10:53 | 1,9251 | LA |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE

**Project Number:** 86-16480

**Lab Number:** L1410493

**Report Date:** 05/23/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG690036-2 | | | | | | | | |
| BOD, 5 day | **122** | Q | - | | 85-115 | - | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG690373-2 | | | | | | | | |
| Chemical Oxygen Demand | 104 | | - | | 93-106 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG690731-2 | | | | | | | | |
| Total Organic Carbon | 102 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG691108-2 | | | | | | | | |
| Alkalinity, Total | 103 | | - | | 90-110 | - | | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG691249-2 | | | | | | | | |
| Chloride | 107 | | - | | 90-110 | - | | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690036-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| BOD, 5 day | ND | 2000 | 3700 | **184** | Q | - | - | | 50-145 | - | | 35 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690373-3 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Chemical Oxygen Demand | 1300 | 476 | 1700 | **83** | Q | - | - | | 84-120 | - | | 12 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690731-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Total Organic Carbon | 10.6 | 40 | 53.0 | 106 | | - | - | | 80-120 | - | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG691108-3 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Alkalinity, Total | 400. | 100 | 501 | 101 | | - | - | | 86-116 | - | | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG691249-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | | | | | | | |
| Chloride | 600 | 20 | 600 | **0** | Q | - | - | | 58-140 | - | | 7 |

# Lab Duplicate Analysis
## Batch Quality Control

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690036-3 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | |
| BOD, 5 day | ND | 62 | mg/l | NC | | 35 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690373-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | |
| Chemical Oxygen Demand | 1300 | 1200 | mg/l | 8 | | 12 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG690731-3 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | |
| Total Organic Carbon | 10.6 | 11.4 | mg/l | 7 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG691108-4 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | |
| Alkalinity, Total | 400. | 410 | mg CaCO3/L | 2 | | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG691249-3 QC Sample: L1410493-07 Client ID: MW-1 | | | | | | |
| Chloride | 600 | 610 | mg/l | 2 | | 7 |

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

**Reagent H2O Preserved Vials Frozen on:** NA

**Cooler Information Custody Seal**

| Cooler | |
|---|---|
| A | Absent |
| D | Absent |
| B | Absent |
| C | Absent |
| E | Absent |

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-01A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-01B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-01C | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-01D | Vial H2SO4 preserved | A | N/A | 3.1 | Y | Absent | TOC-5310(28) |
| L1410493-01E | Vial H2SO4 preserved | A | N/A | 3.1 | Y | Absent | TOC-5310(28) |
| L1410493-01F | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-01G | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-01H | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-01I | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-01J | Plastic 500ml unpreserved | A | 7 | 3.1 | Y | Absent | BOD-5210(2) |
| L1410493-01K | Plastic 250ml H2SO4 preserved | A | <2 | 3.1 | Y | Absent | COD-5220(28) |
| L1410493-01L | Plastic 250ml unpreserved | A | N/A | 3.1 | Y | Absent | ALK-T-2320(14) |
| L1410493-01M | Plastic 250ml HNO3 preserved | A | <2 | 3.1 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-01N | Plastic 120ml unpreserved | A | 7 | 3.1 | Y | Absent | CL-9251(28) |
| L1410493-02A | Vial HCl preserved | D | N/A | 4.0 | Y | Absent | NYTCL-8260(14) |
| L1410493-02B | Vial HCl preserved | D | N/A | 4.0 | Y | Absent | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-02C | Vial HCl preserved | D | N/A | 4.0 | Y | Absent | NYTCL-8260(14) |
| L1410493-02D | Vial H2SO4 preserved | D | N/A | 4.0 | Y | Absent | TOC-5310(28) |
| L1410493-02E | Vial H2SO4 preserved | D | N/A | 4.0 | Y | Absent | TOC-5310(28) |
| L1410493-02F | Amber 1000ml Na2S2O3 | D | 7 | 4.0 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-02G | Amber 1000ml Na2S2O3 | D | 7 | 4.0 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-02H | Amber 1000ml Na2S2O3 | D | 7 | 4.0 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-02I | Amber 1000ml Na2S2O3 | D | 7 | 4.0 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-02J | Plastic 500ml unpreserved | D | 7 | 4.0 | Y | Absent | BOD-5210(2) |
| L1410493-02K | Plastic 250ml H2SO4 preserved | D | <2 | 4.0 | Y | Absent | COD-5220(28) |
| L1410493-02L | Plastic 250ml unpreserved | D | N/A | 4.0 | Y | Absent | ALK-T-2320(14) |
| L1410493-02M | Plastic 250ml HNO3 preserved | D | <2 | 4.0 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-02N | Plastic 120ml unpreserved | D | 7 | 4.0 | Y | Absent | CL-9251(28) |
| L1410493-03A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-03B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-03C | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-03D | Vial H2SO4 preserved | A | N/A | 3.1 | Y | Absent | TOC-5310(28) |
| L1410493-03E | Vial H2SO4 preserved | A | N/A | 3.1 | Y | Absent | TOC-5310(28) |
| L1410493-03F | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-03G | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-03H | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-03I | Amber 1000ml Na2S2O3 | A | 7 | 3.1 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-03J | Plastic 500ml unpreserved | A | 7 | 3.1 | Y | Absent | BOD-5210(2) |
| L1410493-03K | Plastic 250ml H2SO4 preserved | A | <2 | 3.1 | Y | Absent | COD-5220(28) |
| L1410493-03L | Plastic 250ml unpreserved | A | N/A | 3.1 | Y | Absent | ALK-T-2320(14) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-03M | Plastic 250ml HNO3 preserved | A | <2 | 3.1 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-03N | Plastic 120ml unpreserved | A | 7 | 3.1 | Y | Absent | CL-9251(28) |
| L1410493-04A | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-04B | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-04C | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-04D | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-04E | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-04F | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-04G | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-04H | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-04I | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-04J | Plastic 500ml unpreserved | E | 7 | 2.5 | Y | Absent | BOD-5210(2) |
| L1410493-04K | Plastic 250ml H2SO4 preserved | E | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1410493-04L | Plastic 250ml unpreserved | E | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1410493-04M | Plastic 500ml HNO3 preserved | E | <2 | 2.5 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-04N | Plastic 120ml unpreserved | E | 7 | 2.5 | Y | Absent | CL-9251(28) |
| L1410493-05A | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-05B | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-05C | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-05D | Vial H2SO4 preserved | B | N/A | 2.7 | Y | Absent | TOC-5310(28) |
| L1410493-05E | Vial H2SO4 preserved | B | N/A | 2.7 | Y | Absent | TOC-5310(28) |
| L1410493-05F | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-05G | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-05H | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-05I | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-05J | Plastic 500ml unpreserved | B | 7 | 2.7 | Y | Absent | BOD-5210(2) |
| L1410493-05K | Plastic 250ml H2SO4 preserved | B | <2 | 2.7 | Y | Absent | COD-5220(28) |
| L1410493-05L | Plastic 250ml unpreserved | B | N/A | 2.7 | Y | Absent | ALK-T-2320(14) |
| L1410493-05M | Plastic 250ml HNO3 preserved | B | <2 | 2.7 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-05N | Plastic 500ml HNO3 preserved | B | <2 | 2.7 | Y | Absent | CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28) |
| L1410493-05O | Plastic 120ml unpreserved | B | 7 | 2.7 | Y | Absent | CL-9251(28) |
| L1410493-06A | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-06B | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-06C | Vial HCl preserved | B | N/A | 2.7 | Y | Absent | NYTCL-8260(14) |
| L1410493-06D | Vial H2SO4 preserved | B | N/A | 2.7 | Y | Absent | TOC-5310(28) |
| L1410493-06E | Vial H2SO4 preserved | B | N/A | 2.7 | Y | Absent | TOC-5310(28) |
| L1410493-06F | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-06G | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-06H | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-06I | Amber 1000ml Na2S2O3 | B | 7 | 2.7 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-06J | Plastic 500ml unpreserved | B | 7 | 2.7 | Y | Absent | BOD-5210(2) |
| L1410493-06K | Plastic 250ml H2SO4 preserved | B | <2 | 2.7 | Y | Absent | COD-5220(28) |
| L1410493-06L | Plastic 250ml unpreserved | B | N/A | 2.7 | Y | Absent | ALK-T-2320(14) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

## Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-06M | Plastic 250ml HNO3 preserved | B | <2 | 2.7 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-06N | Plastic 500ml HNO3 preserved | B | <2 | 2.7 | Y | Absent | CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28) |
| L1410493-06O | Plastic 120ml unpreserved | B | 7 | 2.7 | Y | Absent | CL-9251(28) |
| L1410493-07A | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07A1 | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07A2 | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-07B | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07B1 | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07B2 | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-07C | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07C1 | Vial HCl preserved | C | N/A | 2.2 | Y | Absent | NYTCL-8260(14) |
| L1410493-07C2 | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-07D | Vial H2SO4 preserved | C | N/A | 2.2 | Y | Absent | TOC-5310(28) |
| L1410493-07D1 | Vial H2SO4 preserved | C | N/A | 2.2 | Y | Absent | TOC-5310(28) |
| L1410493-07D2 | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-07E | Vial H2SO4 preserved | C | N/A | 2.2 | Y | Absent | TOC-5310(28) |
| L1410493-07E1 | Vial H2SO4 preserved | C | N/A | 2.2 | Y | Absent | TOC-5310(28) |
| L1410493-07E2 | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-07F | Amber 1000ml Na2S2O3 | C | 7 | 2.2 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-07G | Amber 1000ml Na2S2O3 | C | 7 | 2.2 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-07H | Amber 1000ml Na2S2O3 | C | 7 | 2.2 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-07I | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-07I1 | Amber 1000ml Na2S2O3 | C | 7 | 2.2 | Y | Absent | - |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-07I2 | Amber 1000ml Na2S2O3 | C | 7 | 2.2 | Y | Absent | - |
| L1410493-07J | Plastic 500ml unpreserved | E | 7 | 2.5 | Y | Absent | BOD-5210(2) |
| L1410493-07J1 | Plastic 500ml unpreserved | C | 7 | 2.2 | Y | Absent | BOD-5210(2) |
| L1410493-07J2 | Plastic 500ml unpreserved | C | 7 | 2.2 | Y | Absent | BOD-5210(2) |
| L1410493-07K | Plastic 250ml H2SO4 preserved | E | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1410493-07K1 | Plastic 250ml H2SO4 preserved | C | <2 | 2.2 | Y | Absent | COD-5220(28) |
| L1410493-07K2 | Plastic 250ml H2SO4 preserved | C | <2 | 2.2 | Y | Absent | COD-5220(28) |
| L1410493-07L | Plastic 250ml unpreserved | E | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1410493-07L1 | Plastic 250ml unpreserved | C | N/A | 2.2 | Y | Absent | ALK-T-2320(14) |
| L1410493-07L2 | Plastic 250ml unpreserved | C | N/A | 2.2 | Y | Absent | ALK-T-2320(14) |
| L1410493-07M | Plastic 250ml HNO3 preserved | E | <2 | 2.5 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-07M1 | Plastic 500ml HNO3 preserved | C | <2 | 2.2 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-07M2 | Plastic 500ml HNO3 preserved | C | <2 | 2.2 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-07N | Plastic 500ml HNO3 preserved | E | <2 | 2.5 | Y | Absent | CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28) |
| L1410493-07N1 | Plastic 500ml HNO3 preserved | C | <2 | 2.2 | Y | Absent | CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CL-9251(28),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28) |
| L1410493-07N2 | Plastic 500ml HNO3 preserved | C | <2 | 2.2 | Y | Absent | CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CL-9251(28),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28) |
| L1410493-07O | Plastic 120ml unpreserved | C | 7 | 2.2 | Y | Absent | CL-9251(28) |
| L1410493-07O1 | Plastic 120ml unpreserved | C | 7 | 2.2 | Y | Absent | CL-9251(28) |
| L1410493-07O2 | Plastic 120ml unpreserved | E | 7 | 2.5 | Y | Absent | CL-9251(28) |
| L1410493-08A | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-08B | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-08C | Vial HCl preserved | E | N/A | 2.5 | Y | Absent | NYTCL-8260(14) |
| L1410493-08D | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-08E | Vial H2SO4 preserved | E | N/A | 2.5 | Y | Absent | TOC-5310(28) |
| L1410493-08F | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-08G | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-08H | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-08I | Amber 1000ml Na2S2O3 | E | 7 | 2.5 | Y | Absent | NYTCL-8082-1200ML(7) |
| L1410493-08J | Plastic 500ml unpreserved | E | 7 | 2.5 | Y | Absent | BOD-5210(2) |

*Values in parentheses indicate holding time in days

**Project Name:** MORGAN AVE. BROOKLYN BCP SITE
**Project Number:** 86-16480

**Lab Number:** L1410493
**Report Date:** 05/23/14

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1410493-08K | Plastic 250ml H2SO4 preserved | E | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1410493-08L | Plastic 250ml unpreserved | E | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1410493-08M | Plastic 250ml HNO3 preserved | E | <2 | 2.5 | Y | Absent | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180) |
| L1410493-08N | Plastic 120ml unpreserved | E | 7 | 2.5 | Y | Absent | CL-9251(28) |
| L1410493-09A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |
| L1410493-09B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | MORGAN AVE. BROOKLYN BCP SITE | **Lab Number:** | L1410493 |
| **Project Number:** | 86-16480 | **Report Date:** | 05/23/14 |

## GLOSSARY

### *Acronyms*

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### *Footnotes*

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### *Terms*

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### *Data Qualifiers*

**A** - Spectra identified as "Aldol Condensation Product".

**B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

**C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

**E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | MORGAN AVE. BROOKLYN BCP SITE | **Lab Number:** | L1410493 |
| **Project Number:** | 86-16480 | **Report Date:** | 05/23/14 |

***Data Qualifiers***

**H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**I** - The lower value for the two columns has been reported due to obvious interference.

**M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

**NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

**P** - The RPD between the results for the two columns exceeds the method-specified criteria.

**Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

**J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | MORGAN AVE. BROOKLYN BCP SITE | **Lab Number:** | L1410493 |
| **Project Number:** | 86-16480 | **Report Date:** | 05/23/14 |

## REFERENCES


1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.


## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

# Certification Information

Last revised April 15, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

**Westborough Facility**
**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
**EPA 625:** 4-Chloroaniline, 4-Methylphenol.
**SM4500**: Soil: Total Phosphorus, TKN, NO2, NO3.
**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

**Mansfield Facility**
**EPA 8270D:** Biphenyl.
**EPA 2540D:** TSS
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

***Drinking Water***
**EPA 200.8**: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
**EPA 300.0**: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
**EPA 332**: Perchlorate.
**Microbiology**: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

***Non-Potable Water***
**EPA 200.8**: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
**EPA 200.7**: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH**, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
**EPA 624**: Volatile Halocarbons & Aromatics,
**EPA 608**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
**EPA 625**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/15/14

ALPHA Job #: L1410493

## Client Information

Client: GHD
Address: 1 REMINGTON PARK DRIVE
CAZENOVIA, NY 13035
Phone: 315-679-5732
Fax: 315-679-5801
Email: ian.mcnamara@ghd.com

## Project Information

Project Name: MORGAN AVE BROOKLYN BCP SITE
Project Location: BROOKLYN, NY
Project #: 86-16480
(Use Project name as Project #) ☐
Project Manager: IAN MCNAMARA
ALPHAQuote #:

## Turn-Around Time

Standard ☒ Due Date: 5/22/14
Rush (only if pre approved) ☐ # of Days:

## Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Billing Information

☒ Same as Client Info
PO # 86-16480

## Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

**Sample Filtration**
☒ Done
☐ Lab to do
**Preservation**
☐ Lab to do
**(Please Specify below)**

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TOX (TOTAL ORGANIC HALIDES) | TCL VOCs | ALKALINITY | DISSOLVED TAL METALS | TOTAL TAL METALS | TOC | COD | CHLORIDE | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10493-01 | MW-4 | 5-14-14 | 10:55 | GW | IEM | X | X | X | | X | X | X | X | | 15 |
| 02 | MW-5 | | 11:55 | | | X | X | X | | X | X | X | X | | 15 |
| 03 | MW-6 | | 13:00 | | | X | X | X | | X | X | X | X | | 15 |
| 04 | MW-2R | | 14:00 | | | X | X | X | | X | X | X | X | | 16 |
| 05 | MW-7 | | 15:10 | | | X | X | X | X | X | X | X | X | | 16 |
| 06 | MW-8 | | 15:55 | | | X | X | X | X | X | X | X | X | | 16 |
| 07 | MW-1, MW-1MS, MW-1MSD | | 16:50 | | | X | X | X | X | X | X | X | X | MS/MSD SAMPLE | 48 |
| 08 | DUPLICATE | | 0:00 | | | X | X | X | | X | X | X | X | | 15 |
| 09 | TRIP BLANK | | 0:00 | | | | X | | | | | | | | 2 |
| | | | | | | | | | | | | | | | |
| Container Type | | | | | | A | V | P | P | P | V | P | P | | |
| Preservative | | | | | | D | B | A | C | C | D | D | A | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| IEM | 5-15-14 | | |
| | 5/15/14 1830 | Tom Tatem | 5-15-14 1830 |
| Tom Tatem | 5-15-14 2310 | | 5/15/14 2345 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/15/14

ALPHA Job #: L1410493

## Client Information

Client: GHD
Address: 1 REMSEN PARK DRIVE
CAZENOVIA, NY 13035
Phone: 315-679-5732
Fax: 315-679-5801
Email: ian.mcnamara@ghd.com

## Project Information

Project Name: MORGAN AVE BROOKLYN BCP SITE
Project Location: BROOKLYN, NY
Project #: 86-16480
(Use Project name as Project #) ☐
Project Manager: IAN MCNAMARA
ALPHAQuote #:

## Turn-Around Time

Standard ☒ Due Date: 5/22/14
Rush (only if pre approved) ☐ # of Days:

## Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Billing Information

☒ Same as Client Info
PO # 86-16480

## Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

**Sample Filtration**
☒ Done
☐ Lab to do
***Preservation***
☐ Lab to do
***(Please Specify below)***

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | BOD5 | PCBs | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|
| 10493-01 | MW-4 | 5-14-14 | 10:55 | GW | IEM | X | X | | 15 |
| 02 | MW-5 | | 11:55 | | | X | X | | 15 |
| 03 | MW-6 | | 13:00 | | | X | X | | 15 |
| 04 | MW-2R | | 14:00 | | | X | X | | 15 |
| 05 | MW-7 | | 15:10 | | | X | X | | 16 |
| 06 | MW-8 | | 15:55 | | | X | X | | 16 |
| 07 | MW-1, MW-1MS, MW-1MSD | | 16:50 | | | X | X | MS/MSD SAMPLE | 48 |
| 08 | DUPLICATE | | 0:00 | | | X | X | | 15 |
| | | | | | | | | | |
| | | | | | | | | | |

Container Type: P A
Preservative: A H

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| IEM | 5-15-14 14:45 | AAL | 5/15/14 14:45 |
| | 5/15/14 1830 | Tom Tobin | 5-15-14 1830 |
| Tom Tobin | 5-15-14 2340 | Will Mcn | 5/15/14 2340 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# Attachment B

Groundwater Field Sampling Logs

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-1 | **Sample Time:** 16:50

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 16.33' |
| Initial Static Water Level (Top of PVC): | 9.07' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 7.26 | ft. of water x .16 = | 1.16 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

| | | |
|---|---|---|
| Volume of Water Removed: | 3.5 | gallons |
| > 3 Volumes: | yes | no |
| Dry: | yes | no |

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 14.43 | °C | pH: | 6.78 | units |
| Salinity: | 1.42 | % | ORP: | -125.8 | mV |
| Spec. Cond.: | 2.731 | uS/cm | Turbidity: | 94.1 | NTU |
| Diss. Oxygen: | 0.04 | mg/L | PID: | 0.5 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals, Dissolved TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Black tinted water with petroleum like sheen, and sulfur odor

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

Dissolved metals sample taken with peristaltic prior to removing tubing due to elevated turbidity

MS/MSD taken at this location at 16:50

Well in good condition, No lock on well's J-plug

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-2R | **Sample Time:** 14:00

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 17.92' |
| Initial Static Water Level (Top of PVC): | 9.75' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 8.17 | ft. of water x .16 = | 1.31 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

Volume of Water Removed: 5 gallons

> 3 Volumes: yes | no

Dry: yes | no

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 14.38 | °C | pH: | 7.00 | units |
| Salinity: | 0.82 | % | ORP: | -121.3 | mV |
| Spec. Cond.: | 1.609 | uS/cm | Turbidity: | 8.4 | NTU |
| Diss. Oxygen: | 0.03 | mg/L | PID: | 0.0 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water started clear and increased in turbidity as sampling progressed, slight petroleum like sheen, sulfur odor

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

No dissolved metals sample since turbidity at time of total metals sample collection was low

Well in good condition, Lock on well's J-plug prevents J-plug from being inserted fully into casing leading to a poor seal

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-4 | **Sample Time:** 10:55

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 16.48' |
| Initial Static Water Level (Top of PVC): | 9.91' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 6.57 | ft. of water x .16 = | 1.05 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

Volume of Water Removed: 3.5 gallons

| | | |
|---|---|---|
| > 3 Volumes: | yes | no |
| Dry: | yes | no |

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 13.69 | °C | pH: | 11.33 | units |
| Salinity: | 1.58 | % | ORP: | -271.8 | mV |
| Spec. Cond.: | 3.013 | uS/cm | Turbidity: | 1.9 | NTU |
| Diss. Oxygen: | -0.06 | mg/L | PID: | 0.4 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water clear, no sheen, no odor

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

No dissolved metals sample since turbidity at time of total metals sample collection was low

Well in good condition, Lock on well's J-plug prevents J-plug from being inserted fully into casing leading to a poor seal

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-5 | **Sample Time:** 11:55

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 18.69' |
| Initial Static Water Level (Top of PVC): | 11.01' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 7.68 | ft. of water x .16 = | 1.23 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

Volume of Water Removed: 4 gallons

> 3 Volumes: yes / no

Dry: yes / no

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 13.08 | °C | pH: | 7.01 | units |
| Salinity: | 4.66 | % | ORP: | -155.0 | mV |
| Spec. Cond.: | 8.336 | uS/cm | Turbidity: | 1.0 | NTU |
| Diss. Oxygen: | 0.00 | mg/L | PID: | 0.3 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water clear, no sheen, no odor

Additional Comments:

- Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014
- No dissolved metals sample since turbidity at time of total metals sample collection was low
- Duplicate taken at this location at 11:55
- Well in good condition, No Lock on well's J-plug

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-6 | **Sample Time:** 13:00

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 17.05' |
| Initial Static Water Level (Top of PVC): | 10.36' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 6.69 | ft. of water x .16 = | 1.07 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

Volume of Water Removed: 3.5 gallons

> 3 Volumes: yes | no

Dry: yes | no

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 15.50 | °C | pH: | 7.31 | units |
| Salinity: | 1.98 | % | ORP: | -296.0 | mV |
| Spec. Cond.: | 3.734 | uS/cm | Turbidity: | 1.1 | NTU |
| Diss. Oxygen: | 0.01 | mg/L | PID: | 0.2 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water clear, no sheen, sulfur odor

Water developed black tint as sampling progressed

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

No dissolved metals sample since turbidity at time of total metals sample collection was low

Well in good condition, Lock on well's J-plug prevents J-plug from being inserted fully into casing leading to a poor seal

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-7 | **Sample Time:** 15:10

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 15.42' |
| Initial Static Water Level (Top of PVC): | 8.17' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 7.25 | ft. of water x .16 = | 1.16 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

| | | |
|---|---|---|
| Volume of Water Removed: | 3.5 | gallons |
| > 3 Volumes: | yes | no |
| Dry: | yes | no |

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 13.71 | °C | pH: | 7.26 | units |
| Salinity: | 0.75 | % | ORP: | -119.3 | mV |
| Spec. Cond.: | 1.480 | uS/cm | Turbidity: | 226.4 | NTU |
| Diss. Oxygen: | 0.04 | mg/L | PID: | 0.0 | ppm |

**Sampling Method:**

| | |
|---|---|
| Stainless Bailer: | |
| Teflon Bailer: | |
| Pos. Disp. Pump: | |
| Dis. Bailer: | X |
| Ded. Pump: | |
| Other: | X Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals, Dissolved TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water cloudy, rusty orange color, no sheen, no odor

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

Dissolved metals sample taken with peristaltic prior to removing tubing due to elevated turbidity

Well in good condition, No Lock on well's J-plug

# Groundwater Field Sampling Log

**Site Name:** 202-218 Morgan Avenue BCP Site | **Date:** 5/14/2014 | **Project #:** 86-16480

**Sampler(s):** IEM | **Sample ID:** MW-8 | **Sample Time:** 15:55

**Well Information:**

| | |
|---|---|
| Depth of Well (Top of PVC): | 14.45' |
| Initial Static Water Level (Top of PVC): | 8.85' |
| Depth to LNAPL/DNAPL (Top of PVC): | |
| LNAPL/DNAPL Thickness (inches): | |

**Well Volume Calculation:**

| | | | | |
|---|---|---|---|---|
| 1 in. Casing: | | ft. of water x .04 = | | gallons |
| 2 in. Casing: | 5.6 | ft. of water x .16 = | 0.90 | gallons |
| 3 in. Casing: | | ft. of water x .36 = | | gallons |
| 4 in. Casing: | | ft. of water x .64 = | | gallons |

**Evacuation Method:**

| | | | |
|---|---|---|---|
| Submersible: | | Centrifugal: | X |
| Airlift: | | Pos. Displ.: | |
| Bailer: | | Ded. Pump: | |

Volume of Water Removed: 2.75 gallons

| | | |
|---|---|---|
| > 3 Volumes: | yes | no |
| Dry: | yes | no |

**Field Tests:**

| | | Units: | | | Units: |
|---|---|---|---|---|---|
| Temperature: | 12.51 | °C | pH: | 6.68 | units |
| Salinity: | 1.87 | % | ORP: | -92.1 | mV |
| Spec. Cond.: | 3.534 | uS/cm | Turbidity: | 287.0 | NTU |
| Diss. Oxygen: | 0.04 | mg/L | PID: | 0.0 | ppm |

**Sampling Method:**

| | | |
|---|---|---|
| Stainless Bailer: | | |
| Teflon Bailer: | | |
| Pos. Disp. Pump: | | |
| Dis. Bailer: | X | |
| Ded. Pump: | | |
| Other: | X | Centrifugal Pump |

**Analysis:** TOX, Alkalinity, BOD-5 Day, Chloride, COD, TCL PCBs, TCL VOCs, TOC, Total TAL Metals, Dissolved TAL Metals

**Observations:**

Weather: 62°F, Overcast to Partly Cloudy, Humid

Physical Appearance and Odor of Sample: Water cloudy, rusty orange, no sheen, no odor

Additional Comments: Field parameters collected using a YSI 6920 with flow through cell and GeoPump2 peristaltic pump during purging on 5/14/2014

Dissolved metals sample taken with peristaltic prior to removing tubing due to elevated turbidity

Well in good condition, No Lock on well's J-plug