# DATA SUMMARY REPORT FOR REMEDIAL INVESTIGATION ACTIVITIES AT THE PELHAM FORMER GAS WORKS SITE

## Site No. V00565

## Pelham Manor, New York

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## TABLE OF CONTENTS



## LIST OF TABLES



## LIST OF FIGURES



## LIST OF APPENDICES

## 1.0 INTRODUCTION

The Pelham Former Gas Works Site (Site) is located almost entirely at 847 Pelham Parkway in the Village of Pelham Manor, New York (Figure 1). An off-site Remedial Investigation (RI) was conducted to evaluate the presence and extent of MGP residuals that may have migrated from the Pelham Former MGP Site to Eastchester Creek. This Data Summary Report presents the preliminary analytical data from the RI activities completed in Eastchester Creek adjacent to the Site between October and November 2009. The investigation activities were conducted in accordance with the protocols and procedures set forth in the New York State Department of Environmental Conservation (NYSDEC) approved Remedial Investigation Work Plan (Parsons, 2009). The RI activities are briefly described in the sections below followed by a summary of the results. Note that the proposed RI activities at the adjacent Getty property have not yet been conducted.

## 2.0 SEDIMENT INVESTIGATION ACTIVITIES

The scope of the sediment investigation included sediment probing and sediment sampling using Vibracore technology. All sampling locations are shown on Figure 2. Sediment investigation was conducted in two phases: Phase I – Sediment Probing and Phase II – Sediment Sampling.

### Phase I – Sediment Probing

Sediment probing was conducted from October 27 through October 29, 2009 by Ocean Surveys, Inc. (Ocean Surveys) of Old Saybrook, Connecticut. Sediment probing was conducted in a grid pattern within Eastchester Creek adjacent to the Site prior to collection of sediment samples to identify locations with significant sediment deposits indicating historic outfall locations. Sediment probing was conducted at 28 locations by manually advancing a steel probing rod through the water column and into the sediment until resistance was encountered that prohibited additional manual advancement of the rod.

Sediment probing locations with penetration depths are included in Table 1 and Figure 3.

### Phase II – Sediment Sampling

Once the Phase I sediment probing was completed, sediment sampling was conducted from November 2 through November 8, 2009 by Ocean Surveys using Vibracore technology in Eastchester Creek.

Sediment cores were collected at 19 locations (OS-SD-1 through OS-SD-19) to characterize potential impacts from the former MGP Site. Sediment coring locations and the percent recovery data are included in Table 2 and Figure 4. Each sediment core was visually classified using Burmeister soil classification system for soil type, grain size, texture, moisture content, and visible evidence of staining or impacts and screened for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID). These observations are noted in sediment coring logs included in Appendix A. A photo log of the sediment cores is included in Appendix B.

In each core collected for impact characterization, samples were collected and submitted from four depth intervals: 0 to 6 inches below sediment surface (bss), 6 to 12 inches bss, 1 to 2 feet bss, and at a deeper depth (not to exceed 20 feet bss) which was

determined in the field based on visual or olfactory observations. Sediment samples were submitted to Chemtech of Mountainside, NJ to be analyzed for VOCs, semivolatile compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs), target analyte list (TAL) metals, cyanide, and total organic carbon. SVOCs were analyzed on an accelerated turn around time (TAT) of 5 business days. The SVOC data was reviewed by Parsons and the fingerprinting consultant, NewFields Companies, LLC of Rockland, MA (NewFields), and locations for fingerprinting analysis were selected based on the SVOC results. The samples for fingerprinting were submitted to Alpha Analytical of Mansfield, MA and coordinated by NewFields.

In addition, a subset of samples (19 samples) was submitted to Chemtech for geotechnical analysis including grain size, moisture content, total organic content, and Atterberg limits. A summary of sediment samples collected and submitted for laboratory analyses is included in Table 3.

A second set of cores (3 cores per location) were collected to a depth of approximately 12 feet at four locations (OS-SD-6, OS-SD-7, OS-SD-13 and OS-SD-18) for radioisotope dating to evaluate sediment deposition rates adjacent to the Site by assigning time periods to different segments of an intact sediment core. A representative from Battelle Marine Sciences Laboratory was on site from November 9 through November 11, 2009 to process the dating cores, and these activities were coordinated by NewFields. Out of the three cores collected at each of the four locations, one core (identified as the most undisturbed core at that location) was sliced into 2-cm vertical segments and sent to the laboratory for frozen archiving for future radioisotope analysis. The second core was divided into 2-foot sections and submitted to laboratory for frozen archiving for future fingerprinting analysis. The third most disturbed core was not used for any sampling and was discarded as investigation derived waste (IDW). The radioisotope samples were submitted to Battelle to be analyzed for Pb-210 and Cs-137 isotopes.

Twenty sediment samples were submitted for fingerprinting analysis. Ten of these samples were collected from the same cores as the samples for the chemical and geotechnical analyses. The sediment core and depth interval selected for fingerprinting analysis were based on PAH concentrations. The other ten samples will be subsampled from the cores sent to the lab for frozen archiving for future fingerprinting analysis. The fingerprinting samples were submitted to Alpha Laboratories to be analyzed for GC/FID fingerprint and TPH by EPA Method 8100M and for PAHs, alkylated PAHs, and selected petroleum biomarkers by GC/MS by EPA Method 8270M.

## 3.0 SEDIMENT INVESTIGATION RESULTS

### Sediment Analytical Results

A total of 77 sediment samples plus 4 duplicates were collected from the sediment cores completed as part of the RI activities. In general, soil samples were analyzed for TCL VOCs, SVOCs including PAHs, TAL metals, cyanide, and total organic carbon. In addition, 19 samples were analyzed for geotechnical parameters including grain size, moisture content, total organic content, and Atterberg limits. The analytical results of the sediment samples collected for impact characterization are summarized in Table 4. A summary of geotechnical test results is provided in Table 5.

VOCs

A summary of VOC results for sediment samples collected during the field investigation activities is presented in Table 4. VOCs were detected in samples collected at all the 19 core locations. A total of 21 VOCs were detected at least once in the sediment samples collected during the field investigation. Total VOC concentrations in all sediment samples ranged from non-detect to 177 milligrams per kilogram (mg/kg). The highest total VOC concentrations were detected in a sample collected from a depth range of 7 to 7.6 feet bss at sediment coring location OS-SD-14.

SVOCs

A summary of SVOC results for sediment samples collected during the field investigation activities is presented in Table 4. SVOCs were detected in samples collected at all the 19 core locations. A total of 22 SVOCs were detected at least once in the sediment samples collected during the field investigation. Total SVOC concentrations in all sediment samples ranged from non-detect to 5,049 mg/kg. The highest total SVOC concentrations were detected in a sample collected from a depth range of 6 to 6.5 feet bss at sediment coring location OS-SD-10.

Metals and Cyanide

Table 4 summarizes the analytical results for metals including cyanide detected in sediments. A total of 22 metals including cyanide were detected at least once in the sediment samples collected during the field investigation.

Total Organic Carbon

Table 4 summarizes the analytical results for total organic carbon (TOC) detected in sediments. Concentrations detected for TOC ranged from 440 mg/kg to 15,000 mg/kg. In general, TOC concentrations were greater in the shallow sample depth intervals (0-0.5'bss, 0.5-1.0' bss, and 1-2' bss) than the deeper sample depth intervals.

Geotechnical Parameters

Table 5 summarizes the geotechnical results for sediment samples collected during the field investigation. General descriptions of the soil encountered in the sediment investigations conducted during the off-site remedial investigation are presented below.

Based on the grain size analysis, color and USCS classification, nine of the samples (OS-OD-1, 2, 3, 4, 7, 8, 9, 11 and 13) showed a general consistency in their color (dark gray to black), and also indicated a higher silt content. These sediments were collected at depths between 1 foot and 9 feet bss (collected from OS-SD-08 and OS-SD-9, respectively) and were classified primarily as dark gray to black, medium to fine grained Sands with varying amounts of silt (2.9 to 45.3 percent) and gravel (0.5 to 27.3 percent). At two locations (OS-SD-9 and OS-SD-11), these sediments were classified as "Silt and Sand, with trace gravel". Clay was present only in trace quantities in all of these samples and ranged in percentages from 0.8 to 7.2. The USCS classification of these sediments included SP, SM, SW-SM and ML. The organic content of these sediments ranged from 0.7 to 8.2 percent and the moisture content of the sediments varied from 16.5 to 105 percent. These sediments did not indicate any plasticity as these were primarily Sands. The coring logs indicated the presence of decaying organic matter (leaves and sticks) in

sediments between the depths of 0 to 4 feet bss. The coring logs also indicated various forms of fill material which included: plastic, glass, aluminum foil, and trash.

Ten of the remaining samples collected from the following cores: OS-OD-5, 6, 10, 12, 14, 15, 16, 17, 18 and 19 characterized the sediments as having a lighter color (dark gray to gray) and lower silt content compared to the sediments described above. These sediment samples were collected at depths between 4.5 to 16 feet bss and were found to underlie the sediments described in the above paragraph. These sediments were classified as dark gray to gray, medium to fine grained Sands with varying amounts of silt (2 to 34.8 percent) and gravel (1.2 to 29.3 percent). At one location (OS-SD-12 at 4.5-8 feet bss), the sediment was classified as "coarse Gravel, with some sand, silt". Clay was present only in trace quantities in all of the samples and ranged in percentages from 0.8 to 9.1. The USCS classification of these sediments included SP, SM, SW-SM, SP-SM and GM. The organic content of the sediments ranged from 0.0 to 8.6 percent and the moisture content of the sediments varied from 11.8 to 42.4 percent. The sediments did not indicate any plasticity as these were primarily sands.

Fingerprinting Data Summary

Ten samples collected from the same cores as the samples for the chemical and geotechnical analyses were submitted for forensic characterization. Preliminary results of the fingerprinting analysis indicted that the regional hydrocarbon signature consists of weathered middle and heavy range petroleum hydrocarbons mixed with pyrogenic PAHs with highly variable PAH source signatures. Weathered coal tar pitch or creosote appeared up and downstream of the Site. The samples collected near the Site exhibited carbureted water gas (CWG) tar in some surface and deep samples. Lower concentrations of CWG tar appeared in isolated locations up and downstream with a different signature. Additional data evaluation is ongoing and a final conclusion can not yet be made.

**NAPL**

During sediment coring operations, the outside of the sediment core liners were inspected on the barge for evidence of MGP-related impacts [e.g., odors, staining, sheens, non-aqueous phase liquid (NAPL)]. Black stained sediments were observed on the outside of the core liners, and/or petroleum odors were noted to be emanating from cores collected at OS-SD-1, OS-SD-3, OS-SD-5, OS-SD-16, OS-SD-17, OS-SD-18, and OS-SD-19. In addition, blebs of NAPL and/or sheen were observed outside the core liners for cores collected at OS-SD-7, OS-SD-9, OS-SD-10, and OS-SD-13 (Rad). However, NAPL was not observed inside these cores during the sample processing, as described below.

During sediment core processing each sediment core was inspected for the presence of NAPL. NAPL was not observed in any of the sediment cores; however, staining and/or NAPL odor was observed in sediment cores collected at OS-SD-5, OS-SD-9, OS-SD-10, OS-SD-11, OS-SD-14, and OS-SD-16 at depths ranging from 3.75 to 18 feet bss.

# TABLES

# Table 1
# Sediment Probing Locations with Penetration Depths
# Data Summary Report - Off-Site Remedial Investigation
# Pelham Former MGP Site - Pelham, NY

| Sediment Probing Location ID | Depth of Water Column (ft) | Depth of Penetration (ft) |
|---|---|---|
| PB-1 | 7.35 | 9.35 |
| PB-2 | 3.65 | 3.35 |
| PB-3 | 5.20 | 4.3 |
| PB-4 | 4.95 | 9.55 |
| PB-5 | 2.30 | 2.4 |
| PB-6 | 3.90 | 9.7 |
| PB-7 | 3.20 | 2.3 |
| PB-8 | 2.80 | 3.2 |
| PB-9 | 4.20 | 4.9 |
| PB-10 | 1.00 | 5.5 |
| PB-11 | 1.40 | 2.8 |
| PB-12 | 7.90 | 1.8 |
| PB-13 | 11.20 | 8.9 |
| PB-14 | 10.50 | 10.5 |
| PB-15 | 11.20 | 6.8 |
| PB-16 | 15.30 | 6.9 |
| PB-17 | 15.00 | 6.2 |
| PB-18 | 14.40 | 7.5 |
| PB-19 | 15.10 | 5.6 |
| PB-20 | 10.25 | 10 |
| PB-21 | 9.10 | 9.5 |
| PB-22 | 9.70 | 7.3 |
| PB-23 | 9.40 | 8.1 |
| PB-24 | 4.60 | 8.8 |
| PB-25 | 4.00 | 11.6 |
| PB-26 | 9.80 | 10.8 |
| PB-27 | 9.60 | 9.5 |
| PB-28 | 13.00 | 9.25 |

**Table 2**
**Sediment Coring Locations with Percent Recovery Data**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Sediment Coring Location ID | Depth of Water Column (ft) | Targeted Depth of Core (ft) | Actual Depth of Penetration (ft) | % Core Recovery |
|---|---|---|---|---|
| OS-SD-1 | 1.2 | 12 | 12 | 81% |
| OS-SD-2 | 10.5 | 12 | 12 | 73% |
| OS-SB-3 | 8.5 | 12 | 7.8 | 71% |
| OS-SD-4 | 12.4 | 12 | 12 | 89% |
| OS-SD-5 | 11.2 | 12 | 12 | 88% |
| OS-SD-6 | 9.1 | 12 | 12 | 93% |
| OS-SD-7 | 9.0 | 20 | 16 | 92% |
| OS-SD-8 | 16.3 | 20 | 19 | 71% |
| OS-SD-9 | 5.4 | 20 | 19 | 92% |
| OS-SD-10 | 9.1 | 20 | 14.9 | 85% |
| OS-SD-11 | 7.4 | 20 | 19 | 93% |
| OS-SD-12 | 12.2 | 20 | 18.5 | 74% |
| OS-SD-13 | 10.6 | 20 | 19 | 99% |
| OS-SD-14 | 16.4 | 20 | 14.4 | 72% |
| OS-SD-15 | 7.3 | 20 | 18 | 91% |
| OS-SD-16 | 14.8 | 20 | 19 | 91% |
| OS-SD-17 | 10.8 | 12 | 12.5 | 100% |
| OS-SD-18 | 10.6 | 12 | 12 | 91% |
| OS-SD-19 | 17.8 | 12 | 12 | 68% |

**Table 3**
**Sample Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Fomer MGP Site - Pelham, NY**

| Location | Sample ID | Depth (bss) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Total Organic Carbon | Grain Size | Moisture Content | Atterberg Limit | Total Organic Content | Hydrocarbon Fingerprint |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sediment Sample** | | | | | | | | | | | | |
| OS-SD-01 | OS-SD-01 (0" - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-01 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-01 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-01 (8' - 8.5') | 8 - 8.5' | X | X | X | X | X | | | | | |
| | OS-SD-01 | 6.5-9' | | | | | | X | X | X | X | |
| OS-SD-02 | OS-SD-02 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-02 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-02 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-02 (8' - 8.6') | 8 - 8.6' | X | X | X | X | X | | | | | X |
| | OS-SD-02 | 4-7' | | | | | | X | X | X | X | |
| OS-SD-03 | OS-SD-03 (0" - 6") | 0 - 6" | X | X | X | X | X | | | | | X |
| | OS-SD-03 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-03 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-03 (4.5 - 5') | 4.5 - 5' | X | X | X | X | X | | | | | |
| | OS-SD-03 | 2-4.5' | | | | | | X | X | X | X | |
| OS-SD-04 | OS-SD-04 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-04 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-04 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-04 (8' - 8.5') | 8 - 8.5' | X | X | X | X | X | | | | | |
| | OS-SD-04 | 5-7' | | | | | | X | X | X | X | |
| OS-SD-05 | OS-SD-05 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-05 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-05 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-05 (9 - 9.5') | 9 - 9.5' | X | X | X | X | X | | | | | |
| | OS-SD-05 | 5-6.5' | | | | | | X | X | X | X | |
| OS-SD-06 | OS-SD-06 (0" - 6") | 0 - 6" | X | X | X | X | X | | | | | X |
| | OS-SD-06 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-06 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-06 (8.5' - 9') | 8.5 - 9' | X | X | X | X | X | | | | | |
| | OS-SD-06 | 5-8.5' | | | | | | X | X | X | X | |
| OS-SD-07 | OS-SD-07 (0" - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-07 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-07 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | X |
| | OS-SD-07 (14' - 14.5') | 14 - 14.5' | X | X | X | X | X | | | | | |
| | OS-SD-07D (14 - 14.5') | 14 - 14.5' | X | X | X | X | X | | | | | |
| | OS-SD-07 | 8-9' | | | | | | X | X | X | X | |
| OS-SD-08 | OS-SD-08 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-08 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-08 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-08 (9.5' - 10') | 9.5 - 10' | X | X | X | X | X | | | | | |
| | OS-SD-08 | 1-2' | | | | | | X | X | X | X | |
| OS-SD-09 | OS-SD-09 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-09 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | X |
| | OS-SD-09 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-09 (17' - 17.5') | 17 - 17.5' | X | X | X | X | X | | | | | |
| | OS-SD-09 | 3-4' | | | | | | X | X | X | X | |
| OS-SD-10 | OS-SD-10 (0 - 6") | 0 - 6" | | | | | | | | | | |
| | OS-SD-10 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-10 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-10 (6 - 6.5') | 6 - 6.5' | X | X | X | X | X | | | | | X |
| | OS-SD-10D (6 - 6.5') | 6 - 6.5' | X | X | X | X | X | | | | | |
| | OS-SD-10 (8.5 - 9') | 8.5 - 9' | X | X | X | X | X | | | | | |
| | OS-SD-10 | 10.5-11' | | | | | | X | X | X | X | |

**Table 3**
**Sample Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Fomer MGP Site - Pelham, NY**

| Location | Sample ID | Depth (bss) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Total Organic Carbon | Grain Size | Moisture Content | Atterberg Limit | Total Organic Content | Hydrocarbon Fingerprint |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS-SD-11 | OS-SD-11 (0" - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-11 (6" - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-11 (1' - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-11 (15.5' - 16') | 15.5 - 16' | X | X | X | X | X | | | | | X |
| | OS-SD-11 | 9-13' | | | | | | X | X | X | X | |
| OS-SD-12 | OS-SD-12 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-12 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-12 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-12 (8 - 8.6') | 8 - 8.6' | X | X | X | X | X | | | | | |
| | OS-SD-12 | 4.5-8' | | | | | | X | X | X | X | |
| OS-SD-13 | OS-SD-13 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-13 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-13 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-13 (12 - 13') | 12 - 13' | X | X | X | X | X | | | | | |
| | OS-SD-13D (12 - 13') | 12 - 13' | X | X | X | X | X | | | | | |
| | OS-SD-13 | 7.5-10.5' | | | | | | X | X | X | X | |
| OS-SD-14 | OS-SD-14 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-14 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-14 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-14 (7 - 7.6') | 7 - 7.6' | X | X | X | X | X | | | | | X |
| | OS-SD-14 | 7-9' | | | | | | X | X | X | X | |
| OS-SD-15 | OS-SD-15 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-15 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-15 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-15 (14 - 14.6') | 14 - 14.6' | X | X | X | X | X | | | | | |
| | OS-SD-15 | 12-14' | | | | | | X | X | X | X | |
| OS-SD-16 | OS-SD-16 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-16 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-16 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-16 (8 - 8.6') | 8 - 8.6' | X | X | X | X | X | | | | | |
| | OS-SD-16 | 12-16' | | | | | | X | X | X | X | |
| OS-SD-17 | OS-SD-17 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-17 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-17 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-17 (8.6 - 9') | 8.6 - 9' | X | X | X | X | X | | | | | |
| | OS-SD-17D (8.6 - 9') | 8.6 - 9' | X | X | X | X | X | | | | | |
| | OS-SD-17 | 8-10.5' | | | | | | X | X | X | X | |
| OS-SD-18 | OS-SD-18 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | |
| | OS-SD-18 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-18 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | X |
| | OS-SD-18 (10 - 10.9') | 10 - 10.9' | X | X | X | X | X | | | | | |
| | OS-SD-18 | 6-9' | | | | | | X | X | X | X | |
| OS-SD-19 | OS-SD-19 (0 - 6") | 0 - 6" | X | X | X | X | X | | | | | X |
| | OS-SD-19 (6 - 12") | 6 - 12" | X | X | X | X | X | | | | | |
| | OS-SD-19 (1 - 2') | 1 - 2' | X | X | X | X | X | | | | | |
| | OS-SD-19 (7 - 8') | 7 - 8' | X | X | X | X | X | | | | | |
| | OS-SD-19 (6 - 8') | 6-8' | | | | | | X | X | X | X | |

Note:
bss - Below sediment surface

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-01 (0-6)<br>A5017-05<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (6-12)<br>A5017-06<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (1-2)<br>A5017-07<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (8-8.5)<br>A5017-08<br>8-8.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-02 (0-6)<br>A5002-24<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (6-12)<br>A5002-25<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (1-2)<br>A5002-26<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (8-8.6)<br>A5002-27<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-03 (0-6)<br>A5017-01<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | ND | ND | ND | 130 | ND | ND | ND | ND | ND |
| 71-43-2 | Benzene | ug/Kg | ND | ND | ND | 6.5 J | ND | ND | ND | ND | 320 J |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | ND | 74 | ND | ND | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | ND | ND | 12 | ND | ND | ND | ND | 43 J |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 24 J |
| 110-82-7 | Cyclohexane | ug/Kg | ND | ND | ND | 30 | ND | ND | ND | ND | 640 J |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 23 J |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 26 J |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 32 J |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | ND | 46 | ND | ND | ND | ND | 26 J |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 90 J |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | ND | ND | 15 | ND | ND | ND | ND | 480 J |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | ND | 37 | ND | ND | ND | ND | 100 J |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | 4.1 J | 10 J | 3 J | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 12 J |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | 8.6 | ND | ND | ND | 45 J |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 36 J |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | ND | ND | 47 | ND | ND | ND | ND | 32 J |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | ND | 61 | ND | ND | ND | ND | 6 J |
| | **Total VOCs** | **ug/Kg** | **ND** | **ND** | **ND** | **458.5 J** | **12.7 J** | **10 J** | **3 J** | **ND** | **1,935 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | ND | ND | 660 J | ND | ND | ND | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | 630 J | ND | ND | ND | 2,900 J | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | ND | 750 J | 1,200 J | ND | ND | ND | 1,300 J | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 830 J | 1,600 J | 2,300 J | 3,700 J | ND | 1,400 J | 420 J | 13,000 | 2,600 J |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 970 J | 1,500 J | 2,000 J | 3,300 J | ND | 1,400 J | ND | 11,000 | 2,200 J |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 1,500 J | 2,300 J | 2,900 J | 5,000 J | ND | 2,200 J | 480 J | 11,000 | 2,700 J |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | 790 J | 1,100 J | 1,400 J | 2,200 J | ND | 1,200 J | ND | 5,100 | 1,400 J |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | 480 J | 730 J | 790 J | 1,100 J | ND | ND | ND | 4,200 J | 1,200 J |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 2,800 J | 5,500 J | 8,300 | 15,000 | 600 J | 4,900 J | 930 J | 1,200 J | 4,400 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | 970 J | 1,900 J | 2,500 J | 4,300 J | ND | 1,700 J | 390 J | 12,000 | 2,700 J |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | 590 J | ND | ND | ND | 1,100 J | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 1,900 J | 3,600 J | 4,300 J | 8,200 | ND | 2,800 J | 830 J | 23,000 | 5,600 J |
| 86-73-7 | Fluorene | ug/Kg | ND | ND | ND | 790 J | ND | ND | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | 710 J | 1,000 J | 1,200 J | 1,900 J | ND | 980 J | ND | 4,900 | 1,200 J |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | 1,300 J | ND | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | ND | ND | 1,100 J | ND | ND | ND | 560 J | ND |
| 85-01-8 | Phenanthrene | ug/Kg | 640 J | 880 J | 1,200 J | 3,800 J | ND | ND | 420 J | 1,600 J | 2,400 J |
| 129-00-0 | Pyrene | ug/Kg | 1,800 J | 3,300 J | 4,700 J | 7,700 | ND | 2,700 J | 890 J | 29,000 | 5,200 J |
| | **Total SVOCs** | | **13,390 J** | **23,410 J** | **32,340 J** | **62,470 J** | **600 J** | **19,280 J** | **4,360 J** | **121,860 J** | **31,600 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-01 (0-6)<br>A5017-05<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (6-12)<br>A5017-06<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (1-2)<br>A5017-07<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-01 (8-8.5)<br>A5017-08<br>8-8.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-02 (0-6)<br>A5002-24<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (6-12)<br>A5002-25<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (1-2)<br>A5002-26<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-02 (8-8.6)<br>A5002-27<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-03 (0-6)<br>A5017-01<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 7,410 | 11,200 J | 8,130 | 9,950 | 1,010 | 13,800 J | 1,780 | 9,640 | 10,300 J |
| 7440-36-0 | Antimony | mg/Kg | 1.48 J | 2.41 J | 1 J | 1.79 J | 0.54 J | 3.65 J | 0.5 J | 2.43 J | 3.12 J |
| 7440-38-2 | Arsenic | mg/Kg | 3.86 | 6.7 J | 4.51 | 7.03 | 0.82 J | 13.7 J | 2.37 | 12.4 | 4.92 J |
| 7440-39-3 | Barium | mg/Kg | 61 | 105 J | 82.9 | 103 | 6.27 | 110 J | 9.14 | 114 | 107 J |
| 7440-41-7 | Beryllium | mg/Kg | 0.42 | 0.67 J | 0.46 | 0.57 | 0.08 J | 0.69 J | 0.13 J | 0.5 | 0.6 J |
| 7440-43-9 | Cadmium | mg/Kg | 8.68 | 14.6 J | 12.6 | 15.1 | 0.57 | 8.51 J | 0.75 | 2.89 | 8 J |
| 7440-70-2 | Calcium | mg/Kg | 5,840 | 25,900 J | 8,120 | 9,230 | 55,500 | 12,300 J | 51,600 | 6,230 | 14,200 J |
| 7440-47-3 | Chromium | mg/Kg | 65.1 | 154 J | 79.7 | 116 | 3.79 | 94.7 J | 14.1 | 33.3 | 78 J |
| 7440-48-4 | Cobalt | mg/Kg | 9.58 | 11.3 J | 9.05 | 9.33 | 1.24 J | 13.3 J | 3.1 | 9.3 | 12.9 J |
| 7440-50-8 | Copper | mg/Kg | 174 | 351 J | 231 | 301 | 17.5 | 257 J | 457 | 137 | 239 J |
| 7439-89-6 | Iron | mg/Kg | 21,800 | 28,500 J | 21,400 | 26,500 | 3,840 | 30,900 J | 6,140 | 24,100 | 28,500 J |
| 7439-92-1 | Lead | mg/Kg | 329 | 619 J | 550 | 877 | 34.8 | 469 J | 28 | 416 | 430 J |
| 7439-95-4 | Magnesium | mg/Kg | 6,450 | 19,100 J | 7,930 | 8,660 | 32,800 | 12,100 J | 30,700 | 6,540 | 10,500 J |
| 7439-96-5 | Manganese | mg/Kg | 185 | 280 J | 184 | 208 | 67.1 | 269 J | 80.1 | 224 | 227 J |
| 7439-97-6 | Mercury | mg/Kg | 0.357 J | 0.796 J | 0.517 J | 0.535 J | 0.016 | 0.621 J | 0.027 | 2.3 | 0.437 J |
| 7440-02-0 | Nickel | mg/Kg | 45 | 73 J | 47.7 | 58.5 | 4.44 | 60.9 J | 7.89 | 30.4 | 66.4 J |
| 7440-09-7 | Potassium | mg/Kg | 1,800 | 2,770 J | 2,010 | 2,710 | 325 | 3,520 J | 482 | 2,270 | 2,380 J |
| 7782-49-2 | Selenium | mg/Kg | 2.12 | 2.46 J | 1.96 | 2.89 | ND | 2.33 J | 0.37 J | 2.27 | 3.53 J |
| 7440-22-4 | Silver | mg/Kg | ND | 0.5 J | 0.22 J | 0.52 J | ND | 3.72 J | ND | 3.03 | ND |
| 7440-23-5 | Sodium | mg/Kg | 4,260 | 5,190 J | 3,120 | 6,350 | 1,360 | 13,600 J | 734 | 1,080 | 1,980 J |
| 7440-28-0 | Thallium | mg/Kg | 0.53 J | 0.48 J | 0.79 J | ND | ND | 0.66 J | ND | ND | ND |
| 7440-62-2 | Vanadium | mg/Kg | 37.6 | 48.5 J | 38.8 | 51.9 | 5.12 | 55.3 J | 10.4 | 27.9 | 49.5 J |
| 7440-66-6 | Zinc | mg/Kg | 590 | 1,010 J | 611 | 797 | 40 J | 866 J | 39 J | 522 J | 701 J |
| 57-12-5 | Cyanide | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 8,900 | 14,000 J | 10,000 | 12,000 | 8,600 | 12,000 J | 3,200 | 3,500 | 14,000 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-03 (6-12)<br>A5017-02<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-03 (1-2)<br>A5017-03<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-03 (4.5-5)<br>A5017-04<br>4.5-5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-04 (0-6)<br>A5038-06<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (6-12)<br>A5038-07<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (1-2)<br>A5040-09/A5038-08<br>1-2'<br>Chemtech<br>A5040/A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (8-8.5)<br>A5038-09<br>8-8.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-05 (0-6)<br>A5038-14<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-05 (6-12)<br>A5038-15<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | ND | R | ND | 95 J | 76 J | 140 J | ND | 39 J | 46 J |
| 71-43-2 | Benzene | ug/Kg | 270 J | ND | 12 | ND | 10 J | 7.6 J | ND | ND | ND |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | ND | ND | 30 J | 55 J | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | 16 J | ND | ND | 21 J | 19 J | 18 J | 7.4 | ND | ND |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | 9 J | ND | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | 4,200 J | ND | 89 | 9.8 J | ND | 9.4 J | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | R | R | R | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | R | R | R | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | R | R | R | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | ND | 8.7 J | 22 J | 14 J | ND | ND | ND |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | 3,400 J | ND | 18 | 7.7 J | 11 J | 14 J | ND | ND | ND |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | ND | ND | ND | 11 J | 11 J | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | 3,500 J | ND | 12 | ND | ND | ND | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | 6.2 J | ND | ND | ND | 53 J | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | R | R | R | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | 9.8 J | ND | ND | ND | 15 J | 11 J | ND | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **11,402 J** | **ND** | **131** | **151.2 J** | **247 J** | **280 J** | **7.4** | **39 J** | **46 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | 1,100 J | 700 J | ND | ND | ND | ND | ND | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 1,200 J | 630 J | 1,400 J | ND | ND | 870 J | ND | 970 J | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 1,100 J | 570 J | 1,300 J | ND | ND | 850 J | ND | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 1,700 J | 810 J | 2,000 J | 1,400 J | 1,400 J | 1,200 J | ND | 1,400 J | 950 J |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | 940 J | 520 J | 1,100 J | ND | ND | ND | ND | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | 710 J | ND | ND | ND | ND | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 3,800 J | 1,200 J | 5,200 J | ND | ND | ND | ND | ND | ND |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | 1,500 J | 750 J | 1,600 J | ND | ND | 1,100 J | ND | 1,100 J | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 2,600 J | 1,600 J | 2,800 J | 2,400 J | 2,100 J | 1,700 J | ND | 1,900 J | 1,300 J |
| 86-73-7 | Fluorene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | 840 J | 440 J | 880 J | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | 960 J | 430 J | 780 J | ND | ND | ND | ND | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | 2,400 J | 1,500 J | 3,500 J | 2,300 J | 1,800 J | 1,500 J | 750 J | 1,600 J | 1100 J |
| | **Total SVOCs** | | **18,140 J** | **9,150 J** | **21,270 J** | **6,100 J** | **5,300 J** | **7,220 J** | **750 J** | **6,970 J** | **3,350 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-03 (6-12)<br>A5017-02<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-03 (1-2)<br>A5017-03<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-03 (4.5-5)<br>A5017-04<br>4.5-5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-04 (0-6)<br>A5038-06<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (6-12)<br>A5038-07<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (1-2)<br>A5040-09/A5038-08<br>1-2'<br>Chemtech<br>A5040/A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-04 (8-8.5)<br>A5038-09<br>8-8.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-05 (0-6)<br>A5038-14<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-05 (6-12)<br>A5038-15<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 8,150 J | 2,570 | 6,930 | 11,400 J | 13,400 J | 11,000 J | 1,750 | 12,300 J | 14,100 J |
| 7440-36-0 | Antimony | mg/Kg | 1.49 J | 0.61 J | 1 J | 4.01 J | 3.64 J | 1.57 J | ND | 2.77 J | 1.82 J |
| 7440-38-2 | Arsenic | mg/Kg | 2.79 J | 0.95 J | 3.57 | 5.43 J | 5.45 J | 4.22 J | 0.64 J | 4.82 J | 7.45 J |
| 7440-39-3 | Barium | mg/Kg | 101 J | 28 | 96.6 | 136 J | 135 J | 98.4 J | 11.6 | 114 J | 131 J |
| 7440-41-7 | Beryllium | mg/Kg | 0.48 J | 0.2 J | 0.45 J | 0.6 J | 0.74 J | 0.56 J | 0.09 J | 0.59 J | 0.73 J |
| 7440-43-9 | Cadmium | mg/Kg | 6.63 J | 1.93 | 9.75 | 7.52 J | 10.6 J | 10.3 J | 0.06 J | 8.76 J | 9.57 J |
| 7440-70-2 | Calcium | mg/Kg | 13,500 J | 41,700 | 14,800 | 13,200 J | 15,200 J | 12,400 J | 759 | 11,500 J | 12,700 J |
| 7440-47-3 | Chromium | mg/Kg | 76.2 J | 15.2 | 91.9 | 87.5 J | 84.7 J | 72.4 J | 5.71 | 82.6 J | 86.3 J |
| 7440-48-4 | Cobalt | mg/Kg | 9.69 J | 2.58 | 7.02 | 16.7 J | 18.1 J | 12.3 J | 1.71 | 14.4 J | 14.9 J |
| 7440-50-8 | Copper | mg/Kg | 190 J | 54.1 | 204 | 227 J | 261 J | 202 J | 8.83 | 241 J | 268 J |
| 7439-89-6 | Iron | mg/Kg | 22,600 J | 8,700 | 20,300 | 31,200 J | 34,600 J | 26,700 J | 4,960 | 31,100 J | 32,300 J |
| 7439-92-1 | Lead | mg/Kg | 418 J | 89.8 | 393 | 440 J | 483 J | 398 J | 7.18 | 463 J | 525 J |
| 7439-95-4 | Magnesium | mg/Kg | 9,530 J | 26,000 | 9,970 | 11,900 J | 13,100 J | 10,300 J | 1,040 | 11,700 J | 12,500 J |
| 7439-96-5 | Manganese | mg/Kg | 216 J | 101 | 257 | 254 J | 303 J | 238 J | 61.6 | 251 J | 319 J |
| 7439-97-6 | Mercury | mg/Kg | 0.507 J | 0.216 J | 0.436 J | 0.318 J | 0.635 J | 0.503 J | 0.039 | 0.528 J | 0.572 J |
| 7440-02-0 | Nickel | mg/Kg | 52.8 J | 12.9 | 50.7 | 102 J | 103 J | 65.8 J | 4.45 | 77 J | 75 J |
| 7440-09-7 | Potassium | mg/Kg | 2,020 J | 656 | 1,780 | 3,210 J | 3,370 J | 2,640 J | 631 | 3,540 J | 3,680 J |
| 7782-49-2 | Selenium | mg/Kg | 3.09 J | 0.88 J | 2.46 | 4.02 J | 4.22 J | 2.73 J | 0.58 J | 3.33 J | 3.03 J |
| 7440-22-4 | Silver | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | Sodium | mg/Kg | 1,230 J | 345 | 632 | 17,200 J | 13,000 J | 5,020 J | 284 | 15,100 J | 12,100 J |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | ND | ND | 0.75 J | ND | ND | 0.8 J |
| 7440-62-2 | Vanadium | mg/Kg | 37.9 J | 11.6 | 32.5 | 55.6 J | 63.7 J | 44.4 J | 6.61 | 54.6 J | 56.8 J |
| 7440-66-6 | Zinc | mg/Kg | 581 J | 116 | 563 | 690 J | 775 J | 640 J | 20 | 750 J | 797 J |
| 57-12-5 | Cyanide | mg/Kg | ND | ND | ND | 22 J | 15 J | 5.58 J | ND | 8.75 J | 3.99 J |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 12,000 J | 5,900 | 11,000 | 12,000 J | 14,000 J | 13,000 J | 440 J | 14,000 J | 13,000 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-05(1-2)<br>A5051-01/11<br>1-2'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-05(9-9.5)<br>A5051-02/12<br>9-9.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-06 (0-6)<br>A5017-13<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (6-12)<br>A5017-14<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (1-2)<br>A5017-15<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (8.5-9.0)<br>A5017-16<br>8.5-9'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (0-6)<br>A5017-17<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (6-12)<br>A5017-18<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (1-2)<br>A5017-19<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | 32 J | ND | 160 J | 65 J | ND | ND | 330 J | ND | ND |
| 71-43-2 | Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | 44 J | ND | ND | ND | 54 J | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | ND | 25 J | 15 J | ND | ND | 21 J | ND | ND |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | ND | ND | ND | ND | 7.5 | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | 9.5 J | ND | ND | ND | 24 J | 34 J | 21 J |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | ND | ND | ND | ND | 31 | ND | 12 J | 7.3 J |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | 9 J | ND | ND | 5.7 J | 18 J |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | ND | ND | 11 J | 7.8 J | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | ND | ND | ND | 5.5 J | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 5.1 J |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **32 J** | **ND** | **238.5 J** | **91 J** | **16.8 J** | **44 J** | **429 J** | **51.7 J** | **51.4 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | ND | ND | ND | ND | ND | 1,300 J | 1,800 J | 2,600 J |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | ND | ND | ND | 1,100 J | 1,000 J | 1,000 J |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | ND | 1,100 J | ND | ND | ND | 1,500 J | 1,700 J | 2,300 J |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 1,300 J | ND | 3,000 J | ND | ND | ND | 2,500 J | 2,500 J | 2,700 J |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 1,200 J | ND | 2,600 J | ND | ND | ND | 1,900 J | 2,200 J | 2,100 J |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 1,900 J | ND | 3,700 J | 100 J | ND | ND | 2,200 J | 2,400 J | 2,400 J |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | 950 J | ND | 1,900 J | ND | ND | ND | 1,200 J | 1,300 J | 1,300 J |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | 1,300 J | ND | ND | ND | ND | 750 J | 870 J |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 3,900 J | ND | 6,600 J | 230 J | 2,100 J | ND | 1,800 J | 2,000 J | 2,500 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | 1,700 J | ND | 3,400 J | ND J | ND | ND | 2,300 J | 2,500 J | 2,900 J |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 3,000 J | ND | 6,300 J | 150 J | 890 J | ND | 3,500 J | 3,600 J | 4,500 J |
| 86-73-7 | Fluorene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | 1,200 J | 1,500 J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | 900 J | ND | 1,900 J | ND | ND | ND | 1,100 J | 1,100 J | 1,100 J |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 1,500 J |
| 85-01-8 | Phenanthrene | ug/Kg | 1,100 J | ND | 2,700 J | ND | ND | ND | 3,700 J | 4,700 J | 7,100 J |
| 129-00-0 | Pyrene | ug/Kg | 2,600 J | ND | 5,800 J | 120 J | ND | 420 J | 4,800 J | 5,200 J | 5,800 J |
| | **Total SVOCs** | | **18,550 J** | **ND** | **40,300 J** | **600 J** | **2,990 J** | **420 J** | **28,900 J** | **33,950 J** | **42,170 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-05(1-2)<br>A5051-01/11<br>1-2'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-05(9-9.5)<br>A5051-02/12<br>9-9.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-06 (0-6)<br>A5017-13<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (6-12)<br>A5017-14<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (1-2)<br>A5017-15<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-06 (8.5-9.0)<br>A5017-16<br>8.5-9'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (0-6)<br>A5017-17<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (6-12)<br>A5017-18<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-07 (1-2)<br>A5017-19<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 14,400 J | 2,460 | 11,500 J | 11,600 J | 11,900 J | 3,520 | 8,900 J | 14,700 J | 12,200 J |
| 7440-36-0 | Antimony | mg/Kg | 3.6 J | ND | 2.65 J | 2.34 J | 1.94 J | 1.76 J | ND | 1.21 J | 1.77 J |
| 7440-38-2 | Arsenic | mg/Kg | 12.4 J | ND | 5.57 J | 5.61 J | 6.7 J | ND | 1.55 J | 13.4 J | 8.1 J |
| 7440-39-3 | Barium | mg/Kg | 134 J | 22 J | 102 J | 103 J | 112 J | 33.1 | 49.6 J | 131 J | 104 J |
| 7440-41-7 | Beryllium | mg/Kg | 0.66 J | 0.14 J | 0.62 J | 0.64 J | 0.64 J | 0.21 J | 0.45 J | 0.88 J | 0.74 J |
| 7440-43-9 | Cadmium | mg/Kg | 8.98 J | ND | 7.29 J | 6.88 J | 12.7 J | 0.54 | 1.05 J | 10.5 J | 7.71 J |
| 7440-70-2 | Calcium | mg/Kg | 13,200 J | 981 J | 11,700 J | 12,600 J | 11,400 J | 3,850 | 94,900 J | 8,390 J | 10,700 J |
| 7440-47-3 | Chromium | mg/Kg | 95.5 J | ND | 80 J | 79.7 J | 129 J | 10.6 | 40.9 J | 132 J | 92.5 J |
| 7440-48-4 | Cobalt | mg/Kg | 17.5 J | 2.7 | 13.9 J | 13.1 J | 11.6 J | 3.54 | 3.18 J | 13.4 J | 12.4 J |
| 7440-50-8 | Copper | mg/Kg | 275 J | 7.84 | 244 J | 249 J | 348 J | 28.9 | 49.4 J | 340 J | 260 J |
| 7439-89-6 | Iron | mg/Kg | 34,700 J | 5,620 J | 29,700 J | 28,600 J | 30,500 J | 9,780 | 10,300 J | 37,300 J | 33,700 J |
| 7439-92-1 | Lead | mg/Kg | 540 J | 1.95 | 422 J | 390 J | 582 J | 71.8 | 76.2 J | 703 J | 465 J |
| 7439-95-4 | Magnesium | mg/Kg | 12,700 J | 1,600 J | 11,800 J | 11,600 J | 10,600 J | 3,350 | 22,500 J | 9,940 J | 9,990 J |
| 7439-96-5 | Manganese | mg/Kg | 289 J | 54.1 J | 239 J | 244 J | 261 J | 97.9 | 320 J | 648 J | 404 J |
| 7439-97-6 | Mercury | mg/Kg | 0.534 J | ND | 0.647 J | 0.701 J | 0.772 J | 1.5 J | 3 J | 4.4 J | 1.8 J |
| 7440-02-0 | Nickel | mg/Kg | 93.6 J | 8.35 | 67.1 J | 66 J | 67.2 J | 11.8 | 20 J | 69.1 J | 55.7 J |
| 7440-09-7 | Potassium | mg/Kg | 3,680 J | 998 | 3,170 J | 3,110 J | 2,960 J | 806 | 1,130 J | 3,230 J | 3,240 J |
| 7782-49-2 | Selenium | mg/Kg | 2.37 J | 0.41 J | 3.06 J | 3.51 J | 3.42 J | 0.81 J | 2.15 J | 4.41 J | 3.69 J |
| 7440-22-4 | Silver | mg/Kg | 2.57 J | ND | ND | 0.82 J | 1.03 J | ND | ND | 1.84 J | ND |
| 7440-23-5 | Sodium | mg/Kg | 15,100 J | 445 J | 14,100 J | 10,700 J | 5,000 J | 204 | 15,800 J | 10,300 J | 10,400 J |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | 0.67 J | 0.64 J | ND | ND | 1.17 J | 1.32 J |
| 7440-62-2 | Vanadium | mg/Kg | 57.8 J | 9.5 | 51.3 J | 50.4 J | 49 J | 10.5 | 27.4 J | 54.6 J | 49.8 J |
| 7440-66-6 | Zinc | mg/Kg | 904 J | 14 | 759 J | 771 J | 1,020 J | 102 | 130 J | 918 J | 741 J |
| 57-12-5 | Cyanide | mg/Kg | 20 J | ND | 1.92 J | 11 J | ND | ND | ND | 2.42 J | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 12,000 J | ND | 8,600 J | 11,000 J | 12,000 J | 11,000 | 13,000 J | 11,000 J | 8,900 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-07(14-14.5)<br>A5017-20<br>14-14.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | Dup of OS-SD-07(14-14.5)<br>OS-SD-07D(14-14.5)<br>A5017-23<br>14-14.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-08 (0-6)<br>A5038-10<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (6-12)<br>A5038-11<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (1-2)<br>A5038-12<br>1-2'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (9.5-10)<br>A5038-13<br>9.5-10'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (0-6)<br>A5038-02<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (6-12)<br>A5038-03<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (1-2)<br>A5038-04<br>1-2'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | ND | ND | 120 J | 300 J | 100 J | ND | ND | ND | ND |
| 71-43-2 | Benzene | ug/Kg | ND | ND | 7.6 J | 19 J | 32 J | ND | ND | ND | ND |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | 31 J | 120 J | 40 J | ND | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | ND | 6.7 J | 17 J | 5.6 J | ND | ND | ND | ND |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | 9.6 J | 15 J | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | ND | ND | 15 J | 18 J | ND | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | 17 J | 23 J | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | ND | ND | 6.4 J | ND | 17 J | ND | ND |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | ND | 25 J | 1,100 J | 610 J | ND | 16 J | ND | ND |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | ND | ND | 5.3 J | 5.4 J | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | ND | 9.1 J | 9.9 J | ND | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | ND | ND | 43 J | 61 J | ND | 11 J | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | ND | 29 J | 34 J | ND | 6.4 J | ND | ND |
| | **Total VOCs** | **ug/Kg** | **ND** | **ND** | **190.3 J** | **1,684 J** | **960.3 J** | **ND** | **50.4 J** | **ND** | **ND** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | 110 J | ND | ND | ND | ND | 1,500 J | 7,800 J | 650 J |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 3,300 J |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 700 J |
| 120-12-7 | Anthracene | ug/Kg | ND | 86 J | ND | ND | ND | ND | 1,200 J | 4,400 J | 1,600 J |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | ND | 58 J | 1,300 J | 1,300 J | 1,900 J | ND | 1,500 J | 5,500 J | 7,300 |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | ND | ND | 1,300 J | 1,100 J | 1,800 J | ND | 1,500 J | 5,200 J | 6,200 |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | ND | ND | 1,800 J | 1,600 J | 2,800 J | ND | 1,600 J | 5,800 J | 7,800 |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | ND | 1,100 J | 840 J | 1,300 J | ND | 970 J | 3,400 J | 5,200 J |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | ND | ND | 1,000 J | ND | ND | ND | 2,400 J |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | ND | 63 J | 1,700 J | 1,400 J | 2,200 J | ND | 1,500 J | 5,900 J | 7,400 |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 1,100 J |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | ND | 110 J | 3,400 J | 2,900 J | 4,200 J | ND | 2,800 J | 11,000 J | 9,600 |
| 86-73-7 | Fluorene | ug/Kg | ND | 62 J | ND | ND | ND | ND | ND | 3,400 J | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | ND | ND | ND | 1,300 J | ND | ND | 3,000 J | 4,200 J |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | 960 J | ND | 2,300 J |
| 91-20-3 | Naphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | 1,600 J | 6,500 J | 7,500 |
| 85-01-8 | Phenanthrene | ug/Kg | ND | 310 J | 1,600 J | 1,100 J | 1,400 J | ND | 3,100 J | 13,000 J | 2,700 J |
| 129-00-0 | Pyrene | ug/Kg | ND | 180 J | 2,900 J | 2,300 J | 3,000 J | ND | 3,200 J | 11,000 J | 15,000 |
| | **Total SVOCs** | | **ND** | **979 J** | **15,100 J** | **12,540 J** | **20,900 J** | **ND** | **21,430 J** | **85,900 J** | **84,950 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-07(14-14.5)<br>A5017-20<br>14-14.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | Dup of OS-SD-07(14-14.5)<br>OS-SD-07D(14-14.5)<br>A5017-23<br>14-14.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-08 (0-6)<br>A5038-10<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (6-12)<br>A5038-11<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (1-2)<br>A5038-12<br>1-2'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-08 (9.5-10)<br>A5038-13<br>9.5-10'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (0-6)<br>A5038-02<br>0-0.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (6-12)<br>A5038-03<br>0.5-1'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-09 (1-2)<br>A5038-04<br>1-2'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 3,120 | 3,480 | 11,100 J | 10,000 J | 10,600 J | 2,730 | 13,200 J | 4,480 | 7,040 |
| 7440-36-0 | Antimony | mg/Kg | ND | ND | 2.51 J | 1.17 J | 2.3 J | ND | 1.47 J | ND | 1.23 J |
| 7440-38-2 | Arsenic | mg/Kg | ND | ND | 3.18 J | 5.88 J | 4 J | ND | 5.21 J | 1.78 | 12.2 |
| 7440-39-3 | Barium | mg/Kg | 20.1 | 23.3 | 127 J | 105 J | 116 J | 21.5 | 120 J | 49.4 | 78.2 |
| 7440-41-7 | Beryllium | mg/Kg | 0.17 J | 0.16 J | 0.6 J | 0.59 J | 0.6 J | 0.13 J | 0.72 J | 0.39 J | 0.77 |
| 7440-43-9 | Cadmium | mg/Kg | 0.16 J | 0.15 J | 5.39 J | 9.19 J | 5.58 J | 0.2 J | 5.41 J | 0.85 | 1.03 |
| 7440-70-2 | Calcium | mg/Kg | ND | ND | 20,600 J | 10,600 J | 14,600 J | 11,900 | 25,300 J | 3,430 | 2,940 |
| 7440-47-3 | Chromium | mg/Kg | 12.6 | 11 | 68.5 J | 116 J | 75.4 J | 9.92 | 67.9 J | 24.2 | 29.6 |
| 7440-48-4 | Cobalt | mg/Kg | 3.7 | 4.04 | 10.7 J | 9.37 J | 9.98 J | 3.8 | 13.5 J | 4.77 | 7.25 |
| 7440-50-8 | Copper | mg/Kg | 18.4 | 19 | 213 J | 291 J | 224 J | 14.9 | 297 J | 69.4 | 117 |
| 7439-89-6 | Iron | mg/Kg | 9,120 | 7,800 | 29,700 J | 27,700 J | 29,600 J | 7,140 | 34,800 J | 16,100 | 22,900 |
| 7439-92-1 | Lead | mg/Kg | 2.33 | 2.5 | 418 J | 431 J | 370 J | 2.39 | 323 J | 129 | 398 |
| 7439-95-4 | Magnesium | mg/Kg | 2,140 | 2,440 | 11,800 J | 7,970 J | 9,910 J | 9,160 | 14,000 J | 3,320 | 3,620 |
| 7439-96-5 | Manganese | mg/Kg | 64.7 | 61.7 | 265 J | 260 J | 251 J | 64.5 | 313 J | 131 | 344 |
| 7439-97-6 | Mercury | mg/Kg | 0.007 J | 0.007 J | 0.458 J | 0.701 J | 0.61 J | ND | 1.2 J | 0.563 | 1.1 |
| 7440-02-0 | Nickel | mg/Kg | 10.9 | 12.6 | 75.6 J | 55.6 J | 44.9 J | 12.6 | 52.4 J | 16.6 | 25.4 |
| 7440-09-7 | Potassium | mg/Kg | 1,370 | 1,620 | 2,690 J | 2,270 J | 2,580 J | 1,240 | 3,400 J | 1,620 | 1,750 |
| 7782-49-2 | Selenium | mg/Kg | 0.98 J | 0.5 J | 3.56 J | 3.02 J | 3.81 J | 0.61 J | 3.07 J | 1.55 | 2.72 |
| 7440-22-4 | Silver | mg/Kg | ND | ND | 0.36 J | 0.47 J | 2.8 J | ND | ND | ND | ND |
| 7440-23-5 | Sodium | mg/Kg | 338 | 381 | 5,480 J | 1,590 J | 2,180 J | 245 | 5,450 J | 632 | 1,190 |
| 7440-28-0 | Thallium | mg/Kg | 0.35 J | ND | 0.7 J | 0.72 J | ND | ND | 1.47 J | ND | 0.7 J |
| 7440-62-2 | Vanadium | mg/Kg | 13.7 | 11.3 | 50 J | 46 J | 49.2 J | 9.64 | 56.4 J | 21.1 | 37.1 |
| 7440-66-6 | Zinc | mg/Kg | 25 | 21 | 860 J | 807 J | 809 J | 15 | 588 J | 148 | 269 |
| 57-12-5 | Cyanide | mg/Kg | ND | ND | 3.56 J | ND | ND | ND | ND | ND | 1.11 |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | ND | ND | 15,000 J | 9,500 J | 15,000 J | 940 J | 12,000 J | 12,000 J | 13,000 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-09(17-17.5)<br>A5038-05<br>17-17.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-10(0-6)<br>A5051-03/13<br>0-0.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(6-12)<br>A5051-04/14<br>0.5-1'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(1-2)<br>A5051-05/15<br>1-2'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(6-6.5)<br>A5051-06/16<br>6-6.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | Dup of OS-SD-10(6-6.5)<br>OS-SD-10D(6-6.5)<br>A5051-07/17<br>6-6.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(8.5-9)<br>A5051-08/18<br>8.5-9'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-11 (0-6)<br>A5017-09<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-11 (6-12)<br>A5017-10<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | ND | 62 J | 71 J | 200 J | 18 J | R | R | 80 J | 44 J |
| 71-43-2 | Benzene | ug/Kg | ND | 720 J | 1,900 J | 1,600 J | 16 J | ND | ND | ND | 7.5 J |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | ND | 64 J | ND | ND | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | ND | ND | 7.5 J | ND | ND | ND | 8.3 J | 9.8 J |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | 11 J | ND | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | 6.4 J | 11 J | 20 J | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | 31 J | ND | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | 330 J | 150 J | 130 J | 8,000 J | 240 J | ND | ND | 8.5 J |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | 1,900 J | 5,900 J | 9,000 J | 5,500 J | 380 J | ND | ND | 9.3 J |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | 22 J | 19 J | 48 J | ND | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | 13 J | 16 J | 14 J | 2.6 J | 3.4 J | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | 4.3 J | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | 17 J | 26 J | 42 J | 3.3 J | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | 75 J | 200 J | 450 J | 150 J | 29 J | ND | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | ND | 65 J | 74 J | 160 J | 2,200 J | 100 J | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **ND** | **3,210.4 J** | **8,367 J** | **11,777.5 J** | **15,894.2 J** | **752.4 J** | **ND** | **88.3 J** | **79.1 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | 2,200 J | 1,200 J | 1,500 J | 370,000 J | 70,000 J | 45 J | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | ND | 87,000 J | 15,000 J | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | 2,300 J | 1,200 J | ND | 380,000 J | 83,000 J | 50 J | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | ND | 2,600 J | 1,100 J | ND | 210,000 J | 38,000 J | ND | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | ND | 2,300 J | 1,100 J | ND | 160,000 J | 29,000 J | ND | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | ND | 2,500 J | 1,400 J | 1,100 J | 120,000 J | 23,000 J | ND | ND | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | 1,400 J | ND | ND | 55,000 J | 11,000 J | ND | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | 1,100 J | ND | ND | 43,000 J | 6,900 J | ND | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | 35,000 J | 4,800 J | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | ND | 2,000 J | 1,700 J | 2,800 J | ND | ND | ND | 1,700 J | 2,000 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | 5,300 J | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | ND | 2,700 J | 1,200 J | ND | 180,000 J | 36,000 J | ND | ND | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | 16,000 J | 2,800 J | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | 39,000 J | 5,400 J | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | ND | 4,800 J | 2,100 J | 1,500 J | 380,000 J | 69,000 J | ND | ND | 1,100 J |
| 86-73-7 | Fluorene | ug/Kg | ND | 1,000 J | ND | ND | 270,000 J | 37,000 J | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | 1,300 J | ND | ND | 49,000 J | 9,600 J | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | 1,200 J | 130,000 J | 26,000 J | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | 1,900 J | 3,600 J | 2,100 J | 840,000 J | 100,000 J | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | ND | 5,100 J | 2,000 J | ND | 1,200,000 J | 210,000 J | 99 J | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | ND | 6,100 J | 2,600 J | 1,400 J | 480,000 J | 100,000 J | 64 J | 1,100 J | 1,000 J |
| | **Total SVOCs** | | **ND** | **39,300 J** | **19,200 J** | **11,600 J** | **5,049,300 J** | **876,500 J** | **258 J** | **2,800 J** | **4,100 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-09(17-17.5)<br>A5038-05<br>17-17.5'<br>Chemtech<br>A5038<br>SEDIMENT<br>11/6/2009 | OS-SD-10(0-6)<br>A5051-03/13<br>0-0.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(6-12)<br>A5051-04/14<br>0.5-1'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(1-2)<br>A5051-05/15<br>1-2'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(6-6.5)<br>A5051-06/16<br>6-6.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | Dup of OS-SD-10(6-6.5)<br>OS-SD-10D(6-6.5)<br>A5051-07/17<br>6-6.5'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-10(8.5-9)<br>A5051-08/18<br>8.5-9'<br>Chemtech<br>A5051<br>SEDIMENT<br>11/6/2009 | OS-SD-11 (0-6)<br>A5017-09<br>0-0.5'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-11 (6-12)<br>A5017-10<br>0.5-1'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 2,230 | 13,600 J | 15,800 J | 14,700 J | 2,210 | 2,880 | 2,890 | 12,900 J | 13,300 J |
| 7440-36-0 | Antimony | mg/Kg | ND | 2.68 J | 3.4 J | 3.47 J | ND | ND | ND | 2.56 J | 1.61 J |
| 7440-38-2 | Arsenic | mg/Kg | ND | 14.1 J | 19.5 J | 13.5 J | ND | ND | ND | 8.02 J | 9.43 J |
| 7440-39-3 | Barium | mg/Kg | 22.6 | 164 J | 169 J | 239 J | 38.7 J | 54.1 J | 46.2 J | 105 J | 112 J |
| 7440-41-7 | Beryllium | mg/Kg | 0.11 J | 0.78 J | 0.86 J | 0.74 J | 0.08 J | 0.11 J | 0.13 J | 0.73 J | 0.73 J |
| 7440-43-9 | Cadmium | mg/Kg | 0.22 | 5.89 J | 4.6 J | 8.96 J | ND | ND | 0.07 J | 7.37 J | 7.82 J |
| 7440-70-2 | Calcium | mg/Kg | 14,000 | 10,700 J | 9,730 J | 16,100 J | 682 J | 1,030 J | 4,230 J | 10,700 J | 12,300 J |
| 7440-47-3 | Chromium | mg/Kg | 5.37 | 91.5 J | 77.4 J | 103 J | ND | ND | ND | 90.8 J | 95.3 J |
| 7440-48-4 | Cobalt | mg/Kg | 2.83 | 13.9 J | 14.6 J | 14.4 J | 2.6 | 3.47 | 6.35 | 12.4 J | 13.1 J |
| 7440-50-8 | Copper | mg/Kg | 11.7 | 218 J | 230 J | 281 J | 5.9 | 8.05 | 9.52 | 271 J | 278 J |
| 7439-89-6 | Iron | mg/Kg | 6,450 | 36,700 J | 36,800 J | 38,800 J | 5,660 J | 6,750 J | 8,100 J | 32,900 J | 32,300 J |
| 7439-92-1 | Lead | mg/Kg | 2.74 | 479 J | 625 J | 494 J | 2.59 | 2.24 | 1.94 | 444 J | 451 J |
| 7439-95-4 | Magnesium | mg/Kg | 9,370 | 9,210 J | 8,700 J | 11,500 J | 1,410 J | 1,870 J | 3,850 J | 11,900 J | 12,400 J |
| 7439-96-5 | Manganese | mg/Kg | 145 | 297 J | 254 J | 283 J | 39.4 J | 56 J | 80.7 J | 264 J | 276 J |
| 7439-97-6 | Mercury | mg/Kg | ND | 0.625 J | 3.2 J | 0.528 J | ND | ND | ND | 1.3 J | 1.1 J |
| 7440-02-0 | Nickel | mg/Kg | 6.6 | 55.1 J | 54.2 J | 64.2 J | 6.29 | 8.39 | 12.4 | 55.7 J | 62.6 J |
| 7440-09-7 | Potassium | mg/Kg | 625 | 3,130 J | 2,750 J | 3,100 J | 710 | 1,190 | 1,010 | 3,610 J | 3,640 J |
| 7782-49-2 | Selenium | mg/Kg | 0.3 J | 3.04 J | 2.81 J | 3.12 J | 0.76 J | 0.95 J | 0.78 J | 3.02 J | 3.76 J |
| 7440-22-4 | Silver | mg/Kg | ND | 2.97 J | 2.69 J | 5.07 J | ND | ND | ND | ND | 0.37 J |
| 7440-23-5 | Sodium | mg/Kg | 317 | 3,520 J | 3,240 J | 2,690 J | 340 J | 433 J | 518 J | 16,300 J | 14,000 J |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND | 0.87 J |
| 7440-62-2 | Vanadium | mg/Kg | 7.06 | 56.4 J | 62 J | 63.1 J | 7.66 | 10.5 | 9.73 | 53.9 J | 55.2 J |
| 7440-66-6 | Zinc | mg/Kg | 12 | 664 J | 665 J | 968 J | 14 | 18 | 19 | 813 J | 895 J |
| 57-12-5 | Cyanide | mg/Kg | ND | 18 J | 9.8 J | 21 J | ND | ND | ND | ND | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 1,100 J | 14,000 J | 12,000 J | 15,000 J | 3,200 J | 4,500 J | 580 J | 10,000 J | 12,000 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-11 (1-2)<br>A5017-11<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-11(15.5-16)<br>A5017-12<br>15.5-16'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-12 (0-6)<br>A5002-13<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (6-12)<br>A5002-14<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (1-2)<br>A5002-15<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (8-8.6)<br>A5002-16<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (0-6)<br>A5002-17<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (6-12)<br>A5002-18<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (1-2)<br>A5002-19<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | 73 J | ND | 120 J | 180 J | 130 J | ND | 28 J | 40 J | 23 J |
| 71-43-2 | Benzene | ug/Kg | ND | ND | 1,200 J | 710 J | 540 J | ND | ND | ND | 3.8 J |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | 53 J | 74 J | 42 J | ND | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | 3.1 J | ND | 12 J | 17 J | 13 J | ND | 8.7 J | ND | 3.7 J |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | 27 J | 14 J | 8.4 J | ND | 9.5 J | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | ND | 37 J | 44 J | 27 J | ND | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | 13 J | ND | ND | ND | R | R | R |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | R | R | R |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | 9.8 J | ND | ND | ND | R | R | R |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | 1,800 J | 180 J | 83 J | ND | 44 J | 19 J | 4.1 J |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | ND | 160 J | 65 J | 70 J | ND | 53 J | 16 J | 29 J |
| 79-20-9 | Methyl Acetate | ug/Kg | 13 J | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | ND | 18 J | 26 J | 31 J | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | 28 J | 25 J | 19 J | ND | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | 10 J | 10 J | 8.9 J | 2.6 J | 7 J | ND | 3.9 J |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | 16 J | 8.3 J | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | R | R | R |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | ND | 63 J | 20 J | 13 J | ND | 13 J | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | 42 J | ND | ND | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **89.1 J** | **ND** | **3,608.8 J** | **1,373.3 J** | **985.3 J** | **2.6 J** | **163.2 J** | **75 J** | **67.5 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | 17,000 | 3,300 J | 1,200 J | 1,900 J | ND | ND | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | 6,800 | ND | ND | ND | ND | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | 21,000 | ND | ND | ND | ND | 1,100 J | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | ND | 18,000 | ND | ND | ND | ND | 1,600 J | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | ND | 15,000 | ND | ND | ND | ND | 1,400 J | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | ND | 12,000 | 1,100 J | ND | ND | ND | 1,800 J | ND | 440 J |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | 6,100 | ND | ND | ND | ND | 1,000 J | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | 4,000 J | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 1,800 J | ND | 2,900 J | 1,800 J | 1,400 J | ND | 2,500 J | 1,900 J | 950 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | ND | 16,000 | ND | ND J | ND | ND | 1,700 J | ND | 460 J |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | 1,500 J | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | 2,900 J | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 1,100 J | 33,000 | 1,500 J | ND | ND | ND | 2,900 J | ND | 650 J |
| 86-73-7 | Fluorene | ug/Kg | ND | 7,700 | ND | ND | ND | ND | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | 5,300 | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | 2,100 J | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | ND | 3,900 J | ND | ND | ND | ND | 1,400 J | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | 990 J | 50,000 | 1,300 J | ND | ND | ND | 3,300 J | ND | 670 J |
| | **Total SVOCs** | | **3,890 J** | **222,300 J** | **10,100 J** | **3,000 J** | **3,300 J** | **ND** | **18,700 J** | **1,900 J** | **3,170 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-11 (1-2)<br>A5017-11<br>1-2'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-11(15.5-16)<br>A5017-12<br>15.5-16'<br>Chemtech<br>A5017<br>SEDIMENT<br>11/5/2009 | OS-SD-12 (0-6)<br>A5002-13<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (6-12)<br>A5002-14<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (1-2)<br>A5002-15<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-12 (8-8.6)<br>A5002-16<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (0-6)<br>A5002-17<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (6-12)<br>A5002-18<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-13 (1-2)<br>A5002-19<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 13,700 J | 2,220 | 12,600 J | 14,400 J | 14,700 J | 1,650 | 15,200 J | 13,400 J | 1,720 |
| 7440-36-0 | Antimony | mg/Kg | 2.38 J | ND | 3.78 J | 4.12 J | 3.9 J | ND | 4.4 J | 3.41 J | 0.74 J |
| 7440-38-2 | Arsenic | mg/Kg | 7.85 J | 0.28 J | 10.7 J | 13 J | 13.6 J | ND | 14.8 J | 9.93 J | 1.91 |
| 7440-39-3 | Barium | mg/Kg | 115 J | 13.5 | 124 J | 146 J | 149 J | 7.14 | 120 J | 118 J | 14.4 |
| 7440-41-7 | Beryllium | mg/Kg | 0.76 J | 0.12 J | 0.64 J | 0.75 J | 0.73 J | 0.05 J | 0.76 J | 0.88 J | 0.12 J |
| 7440-43-9 | Cadmium | mg/Kg | 8.56 J | 0.26 | 8.73 J | 11.7 J | 13.5 J | 0.05 J | 8.17 J | 8.09 J | 1.06 |
| 7440-70-2 | Calcium | mg/Kg | 12,700 J | 15,100 | 14,800 J | 14,800 J | 14,500 J | 614 | 11,200 J | 12,400 J | 58,900 |
| 7440-47-3 | Chromium | mg/Kg | 95.6 J | 7.53 | 101 J | 126 J | 126 J | 4.98 | 101 J | 104 J | 8.43 |
| 7440-48-4 | Cobalt | mg/Kg | 13 J | 4.79 | 13 J | 13.8 J | 14 J | 2.2 | 16 J | 13.3 J | 2.7 |
| 7440-50-8 | Copper | mg/Kg | 291 J | 12.3 | 275 J | 323 J | 330 J | 7.34 | 266 J | 270 J | 27.9 |
| 7439-89-6 | Iron | mg/Kg | 33,500 J | 7,450 | 36,800 J | 37,600 J | 39,100 J | 3,430 | 39,500 J | 32,400 J | 6,410 |
| 7439-92-1 | Lead | mg/Kg | 483 J | 2.05 | 463 J | 521 J | 536 J | 1.5 | 481 J | 413 J | 88.6 |
| 7439-95-4 | Magnesium | mg/Kg | 12,700 J | 10,300 | 10,600 J | 10,900 J | 10,800 J | 1,110 | 12,600 J | 12,200 J | 35,400 |
| 7439-96-5 | Manganese | mg/Kg | 285 J | 72.4 | 288 J | 335 J | 337 J | 23.1 | 311 J | 293 J | 85 |
| 7439-97-6 | Mercury | mg/Kg | 0.828 J | 0.011 J | 0.836 J | 0.919 J | 0.861 J | ND | 1.3 J | 1.1 J | 0.054 |
| 7440-02-0 | Nickel | mg/Kg | 59.8 J | 8.14 | 65.4 J | 68.7 J | 66.4 J | 5.36 | 64.7 J | 58.7 J | 14.7 |
| 7440-09-7 | Potassium | mg/Kg | 3,750 J | 672 | 2,680 J | 2,950 J | 2,920 J | 379 | 4,020 J | 3,740 J | 504 |
| 7782-49-2 | Selenium | mg/Kg | 3.47 J | ND | 3 J | 3.79 J | 3.61 J | 0.41 J | 3.79 J | 3.58 J | 1 J |
| 7440-22-4 | Silver | mg/Kg | 0.99 J | ND | 3.21 J | 3.84 J | 4.22 J | ND | 2.87 J | 3.24 J | ND |
| 7440-23-5 | Sodium | mg/Kg | 11,400 J | 114 | 1,730 J | 1,330 J | 1,210 J | 242 | 15,600 J | 16,200 J | 1,410 |
| 7440-28-0 | Thallium | mg/Kg | 0.86 J | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | Vanadium | mg/Kg | 56.7 J | 7.98 | 52.8 J | 57 J | 55.9 J | 4.3 | 60.4 J | 52.2 J | 7.49 |
| 7440-66-6 | Zinc | mg/Kg | 962 J | 14 | 912 J | 1,080 J | 1,080 J | 9 J | 843 J | 879 J | 78 J |
| 57-12-5 | Cyanide | mg/Kg | ND | ND | ND | ND | ND | ND | 6.68 J | 3.21 J | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 12,000 J | 2,200 | 10,000 J | 8,800 J | 11,000 J | ND | 13,000 J | 13,000 J | 8,400 |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-13(12-13)<br>A5002-20<br>12-13'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | Dup of OS-SD-13(12-13)<br>OS-SD-13D(12-13)<br>A5002-21<br>12-13'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (0-6)<br>A5002-09<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (6-12)<br>A5002-10<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (1-2)<br>A5002-11<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (7-7.6)<br>A5002-12<br>7-7.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-15 (0-6)<br>A5002-01<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 | OS-SD-15 (6-12)<br>A5002-02<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 | OS-SD-15 (1-2)<br>A5002-03<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | 26 J | ND | 79 J | 150 J | 210 J | ND | 150 J | 170 J | 140 J |
| 71-43-2 | Benzene | ug/Kg | 53 J | 14 J | 24 J | 7.2 J | ND | 5,200 J | ND | 7.4 J | 6.3 J |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | 27 J | 61 J | 71 J | ND | 47 J | 65 J | 30 J |
| 75-15-0 | Carbon Disulfide | ug/Kg | 3.4 J | ND | 8.5 J | 15 J | 10 J | ND | 24 J | 9.9 J | 7 J |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | 48 J | 86 J | 110 J | ND | 6.8 J | 8.9 J | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | ND | 53 J | 110 J | 170 J | ND | ND | 8.4 J | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | 16 J | 19 J | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | R | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | 16 J | 9.7 J | 22 J | ND | 9.6 J | 12 J | 10 J |
| 100-41-4 | Ethyl Benzene | ug/Kg | 12 J | ND | 27 J | ND | ND | 85,000 J | 13 J | 12 J | 7.1 J |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | 19 J | 8.1 J | 120 J | 84 J | 130 J | 11,000 J | 14 J | 30 J | 15 J |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | 2.8 J | ND | 53 J | 48 J | 76 J | ND | 9.1 J | 29 J | 34 J |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | ND | 14 J | 19 J | 3,200 J | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | 8.6 J | ND | ND | ND | 7.4 J |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | 820 J | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | R | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | 4.2 J | ND | 17 J | ND | 23 J | 40,000 J | 8.1 J | 6.8 J | 12 J |
| 1330-20-7 | o-Xylene | ug/Kg | 5 J | ND | 10 J | ND | 16 J | 32,000 J | ND | ND | 5.4 J |
| | **Total VOCs** | **ug/Kg** | **125.4 J** | **22.1 J** | **482.5 J** | **600.9 J** | **884.6 J** | **177,220 J** | **281.6 J** | **359.4 J** | **274.2 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | ND | ND | ND | 1,100 J | ND | 440,000 J | ND | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | ND | ND | 39,000 J | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | ND | ND | ND | ND | 300,000 J | ND | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | ND | ND | ND | ND | ND | 180,000 J | 1,100 J | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | ND | ND | ND | ND | ND | 140,000 J | 1,100 J | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | ND | ND | 1,100 J | 1,100 J | 950 J | 130,000 J | 1,200 J | 1,700 J | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | ND | ND | ND | ND | 63,000 J | ND | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | ND | ND | ND | 32,000 J | ND | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | 78,000 J | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | ND | ND | 2,900 J | 2,800 J | 2,600 J | ND | 3,100 J | 3,900 J | 1,400 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | 4,400 J | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | ND | ND | 1,000 J | ND | 1,000 J | 150,000 J | 1,400 J | 1,300 J | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | ND | 15,000 J | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | 22,000 J | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | ND | ND | 1,600 J | 1,600 J | 1,500 J | 340,000 J | 2,200 J | 2,400 J | 1,000 J |
| 86-73-7 | Fluorene | ug/Kg | ND | ND | ND | ND | ND | 240,000 J | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | ND | ND | ND | ND | 51,000 J | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | 56 J | ND | ND | ND | 630,000 J | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | 72 J | ND | ND | ND | 640,000 J | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | ND | ND | ND | ND | ND | 900,000 J | ND | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | ND | ND | 1,500 J | 1,600 J | 1,400 J | 510,000 J | 2,200 J | 2,100 J | 930 J |
| | **Total SVOCs** | | **ND** | **128 J** | **8,100 J** | **8,200 J** | **7,450 J** | **4,904,400 J** | **12,300 J** | **11,400 J** | **3,330 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-13(12-13)<br>A5002-20<br>12-13'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | Dup of OS-SD-13(12-13)<br>OS-SD-13D(12-13)<br>A5002-21<br>12-13'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (0-6)<br>A5002-09<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (6-12)<br>A5002-10<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (1-2)<br>A5002-11<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-14 (7-7.6)<br>A5002-12<br>7-7.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-15 (0-6)<br>A5002-01<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 | OS-SD-15 (6-12)<br>A5002-02<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 | OS-SD-15 (1-2)<br>A5002-03<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 5,990 | 5,910 | 11,800 J | 14,600 J | 11,700 J | 14,400 J | 15,300 J | 13,800 J | 13,900 J |
| 7440-36-0 | Antimony | mg/Kg | ND | ND | 3.38 J | 8.69 J | 3.58 J | 4.58 J | 3.44 J | 4.18 J | 3.13 J |
| 7440-38-2 | Arsenic | mg/Kg | 1.35 | 1.05 J | 7.2 J | 13.3 J | 11.2 J | 15.2 J | 12.2 J | 9.84 J | 13 J |
| 7440-39-3 | Barium | mg/Kg | 36.9 | 32.1 | 121 J | 170 J | 107 J | 301 J | 121 J | 124 J | 117 J |
| 7440-41-7 | Beryllium | mg/Kg | 0.27 J | 0.31 J | 0.55 J | 0.73 J | 0.6 J | 0.74 J | 0.68 J | 0.66 J | 0.68 J |
| 7440-43-9 | Cadmium | mg/Kg | 0.5 | 0.44 | 5.75 J | 9.76 J | 9.47 J | 4.65 J | 8.17 J | 8.07 J | 12.6 J |
| 7440-70-2 | Calcium | mg/Kg | 5,250 | 4,220 | 15,400 J | 15,500 J | 12,400 J | 5,090 J | 13,100 J | 12,400 J | 13,400 J |
| 7440-47-3 | Chromium | mg/Kg | 20.8 | 18.9 | 85.2 J | 117 J | 119 J | 49.9 J | 94.2 J | 91.3 J | 98.6 J |
| 7440-48-4 | Cobalt | mg/Kg | 8.97 | 8.21 | 13.4 J | 14.2 J | 11.7 J | 14 J | 15.2 J | 15.7 J | 12.6 J |
| 7440-50-8 | Copper | mg/Kg | 23.2 | 23.9 | 225 J | 320 J | 286 J | 242 J | 263 J | 273 J | 909 J |
| 7439-89-6 | Iron | mg/Kg | 13,300 | 13,000 | 30,700 J | 37,700 J | 31,300 J | 31,200 J | 35,700 J | 34,500 J | 31,500 J |
| 7439-92-1 | Lead | mg/Kg | 8.09 | 7.43 | 376 J | 513 J | 463 J | 723 J | 458 J | 478 J | 442 J |
| 7439-95-4 | Magnesium | mg/Kg | 5,850 | 5,220 | 10,600 J | 11,700 J | 9,640 J | 7,060 J | 13,500 J | 12,500 J | 11,800 J |
| 7439-96-5 | Manganese | mg/Kg | 148 | 142 | 250 J | 318 J | 252 J | 252 J | 298 J | 255 J | 289 J |
| 7439-97-6 | Mercury | mg/Kg | 0.003 J | 0.004 J | 0.872 J | 0.979 J | 0.743 J | 0.896 J | 0.719 J | 0.664 J | 0.984 J |
| 7440-02-0 | Nickel | mg/Kg | 20.1 | 18.9 | 60.6 J | 65.3 J | 57.9 J | 45.3 J | 63.1 J | 76.3 J | 53.2 J |
| 7440-09-7 | Potassium | mg/Kg | 1,900 | 1,770 | 2,660 J | 3,140 J | 2,570 J | 3,030 J | 4,040 J | 3,720 J | 3,630 J |
| 7782-49-2 | Selenium | mg/Kg | 1.14 J | 0.95 J | 2.58 J | 3.63 J | 2.24 J | 4.61 J | 2.97 J | 3.64 J | 2.79 J |
| 7440-22-4 | Silver | mg/Kg | ND | ND | 2.5 J | 3.94 J | 3.13 J | 12.9 J | 2.75 J | 2.65 J | 3.28 J |
| 7440-23-5 | Sodium | mg/Kg | 289 | 257 | 1,550 J | 1,290 J | 794 J | 1,670 J | 16,800 J | 16,500 J | 10,900 J |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | ND | ND | ND | 1.05 J | ND | 0.68 J |
| 7440-62-2 | Vanadium | mg/Kg | 25.5 | 24.9 | 53.5 J | 58.1 J | 48 J | 44.2 J | 61 J | 54.2 J | 52 J |
| 7440-66-6 | Zinc | mg/Kg | 43 J | 40 J | 787 J | 1,040 J | 939 J | 1,270 J | 846 J | 897 J | 947 J |
| 57-12-5 | Cyanide | mg/Kg | ND | ND | 1.8 J | 3.55 J | ND | ND | 9.15 J | 4.29 J | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 3,700 | 2,700 | 9,500 J | 11,000 J | 8,500 J | 11,000 J | 12,000 J | 11,000 J | 11,000 J |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-15(14-14.6)<br>A5002-04<br>14-14.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (0-6)<br>A5002-05<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (6-12)<br>A5002-06<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (1-2)<br>A5002-07<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (8-8.6)<br>A5002-08<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-17 (0-6)<br>A4971-11<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (6-12)<br>A4971-12<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (1-2)<br>A4971-13<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (8.6-9)<br>A4971-14<br>8.6-9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | 48 | 120 J | 110 J | 85 J | ND | 200 J | 34 J | ND | 97 |
| 71-43-2 | Benzene | ug/Kg | ND | 8.3 J | 9.2 J | 11 J | ND | ND | ND | ND | ND |
| 78-93-3 | 2-Butanone | ug/Kg | ND | 40 J | 39 J | 26 J | ND | 46 J | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | 15 J | ND | 11 J | ND | 31 J | ND | ND | ND |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | 12 J | 6.1 J | 8.2 J | ND | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | ND | 9.3 J | ND | 7.4 J | 40 | ND | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | 9.5 J | 8 J | 13 J | ND | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | 17 J | ND | 10 J | 51 | ND | ND | ND | ND |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | ND | 18 J | 14 J | 15 J | 46 | ND | ND | ND | 4.1 J |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | ND | 51 J | 58 J | 71 J | ND | ND | ND | 4.6 J | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | ND | ND | ND | ND | 13 | ND | ND | ND | 18 J |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | 5.7 J | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | ND | 12 J | 8.5 J | 11 J | 5.5 J | ND | ND | ND | 3.2 J |
| 1330-20-7 | o-Xylene | ug/Kg | ND | 7.6 J | ND | ND | 12 | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **48** | **319.7 J** | **252.8 J** | **274.3 J** | **167.5 J** | **277 J** | **34 J** | **4.6 J** | **122.3 J** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | 150 J | ND | ND | ND | 6,800 | ND | ND | ND | 72 J |
| 208-96-8 | Acenaphthylene | ug/Kg | 200 J | ND | ND | ND | 520 J | ND | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | 180 J | ND | ND | ND | 2,800 J | ND | ND | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 88 J | ND | 920 J | 1,100 J | 1,900 J | 1,100 J | ND | 1,000 J | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 60 J | ND | ND | 1,000 J | 1,600 J | ND | ND | 920 J | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 49 J | ND | 1,300 J | 1,400 J | 1,500 J | 1,200 J | ND | 1,300 J | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | ND | ND | ND | 770 J | ND | ND | 730 J | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | ND | ND | 560 J | ND | ND | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | ND | 2,300 J | 2,300 J | 2,700 J | 680 J | 1,700 J | 1,600 J | 2,600 J | 120 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | 81 J | ND | 1,200 J | 1,300 J | 1,900 J | 1,100 J | ND | 1,400 J | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 160 J | ND | 2,400 J | 2,500 J | 3,500 J | 1,800 J | 1,000 J | 1,900 J | ND |
| 86-73-7 | Fluorene | ug/Kg | 100 J | ND | ND | ND | 2,700 J | ND | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | ND | ND | ND | 730 J | ND | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | 43 J | ND | ND | ND | 6,500 | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | 580 | ND | ND | ND | 6,800 | ND | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | 520 | ND | 950 J | ND | 8,900 | 1,700 J | ND | 690 J | ND |
| 129-00-0 | Pyrene | ug/Kg | 240 J | 1,000 J | 2,000 J | 2,000 J | 4,900 | 2,400 J | 1,000 J | 1,800 J | ND |
| | **Total SVOCs** | | **2,451 J** | **3,300 J** | **11,070 J** | **12,000 J** | **53,060 J** | **11,000 J** | **3,600 J** | **12,340 J** | **192 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | OS-SD-15(14-14.6)<br>A5002-04<br>14-14.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (0-6)<br>A5002-05<br>0-0.5'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (6-12)<br>A5002-06<br>0.5-1'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (1-2)<br>A5002-07<br>1-2'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-16 (8-8.6)<br>A5002-08<br>8-8.6'<br>Chemtech<br>A5002<br>SEDIMENT<br>11/4/2009 | OS-SD-17 (0-6)<br>A4971-11<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (6-12)<br>A4971-12<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (1-2)<br>A4971-13<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-17 (8.6-9)<br>A4971-14<br>8.6-9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 6,230 | 13,400 J | 13,600 J | 12,900 J | 2,090 | 12,900 J | 11,300 J | 8,170 J | 6,660 |
| 7440-36-0 | Antimony | mg/Kg | ND | 2.75 J | 3.11 J | 3.32 J | ND | 3.54 J | 3.47 J | 2.09 J | ND |
| 7440-38-2 | Arsenic | mg/Kg | 0.9 J | 10.9 J | 11.8 J | 12.1 J | ND | 10 J | 11.1 J | 7.63 J | 0.45 J |
| 7440-39-3 | Barium | mg/Kg | 45.8 | 119 J | 131 J | 114 J | 16 | 119 J | 98.6 J | 76.2 J | 47.7 |
| 7440-41-7 | Beryllium | mg/Kg | 0.3 J | 0.61 J | 0.68 J | 0.64 J | 0.09 J | 0.61 J | 0.57 J | 0.46 J | 0.31 J |
| 7440-43-9 | Cadmium | mg/Kg | 0.62 | 8.63 J | 8.43 J | 9.67 J | 0.14 J | 7.7 J | 7.49 J | 6.26 J | 0.64 |
| 7440-70-2 | Calcium | mg/Kg | 10,900 | 12,800 J | 13,600 J | 14,300 J | 1,140 | 13,000 J | 12,500 J | 12,800 J | 10,300 |
| 7440-47-3 | Chromium | mg/Kg | 17.9 | 99.5 J | 103 J | 111 J | 8.27 | 88.6 J | 84.5 J | 72.1 J | 21.2 |
| 7440-48-4 | Cobalt | mg/Kg | 9.46 | 12.9 J | 12.8 J | 13.6 J | 2.08 | 16.7 J | 11.7 J | 8.22 J | 9.28 |
| 7440-50-8 | Copper | mg/Kg | 19 | 266 J | 280 J | 275 J | 8.73 | 250 J | 239 J | 186 J | 21 |
| 7439-89-6 | Iron | mg/Kg | 15,900 | 31,900 J | 32,600 J | 34,600 J | 6,150 | 31,600 J | 28,200 J | 22,200 J | 15,500 |
| 7439-92-1 | Lead | mg/Kg | 5.89 | 452 J | 436 J | 459 J | 8.67 | 489 J | 377 J | 305 J | 7.23 |
| 7439-95-4 | Magnesium | mg/Kg | 9,720 | 11,800 J | 11,700 J | 11,700 J | 1,540 | 12,000 J | 10,900 J | 9,340 J | 9,470 |
| 7439-96-5 | Manganese | mg/Kg | 129 J | 271 J | 278 J | 282 J | 44.1 J | 251 J | 238 J | 185 J | 162 |
| 7439-97-6 | Mercury | mg/Kg | 0.005 J | 0.835 J | 0.892 J | 1 J | 0.032 | 0.745 J | 1.3 J | 0.848 J | ND |
| 7440-02-0 | Nickel | mg/Kg | 18.7 | 59.7 J | 57.6 J | 61.7 J | 5.44 | 81.4 J | 55.2 J | 43 J | 21.4 |
| 7440-09-7 | Potassium | mg/Kg | 2,050 | 3,530 J | 3,550 J | 3,410 J | 767 | 3,310 J | 3,030 J | 2,240 J | 2,030 |
| 7782-49-2 | Selenium | mg/Kg | 0.92 J | 3.1 J | 3.1 J | 2.72 J | 0.63 J | 3.07 J | 2.38 J | 1.84 J | 0.97 J |
| 7440-22-4 | Silver | mg/Kg | ND | 3.36 J | 3.6 J | 3.39 J | ND | 2.49 J | 2.56 J | 2.09 J | ND |
| 7440-23-5 | Sodium | mg/Kg | 1,440 | 11,900 J | 6,180 J | 4,360 J | 173 | 14,800 J | 12,000 J | 6,740 J | 348 |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | Vanadium | mg/Kg | 24.4 | 50.9 J | 53 J | 51.3 J | 9.19 | 51.9 J | 45.1 J | 31.3 J | 24.8 |
| 7440-66-6 | Zinc | mg/Kg | 41 J | 905 J | 904 J | 987 J | 22 J | 807 J | 780 J | 660 J | 41 |
| 57-12-5 | Cyanide | mg/Kg | ND | 2.25 J | ND | ND | ND | 15 J | 10 J | 2.06 J | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 1,800 | 8,200 J | 13,000 J | 10,000 J | 2,900 | 9,600 J | 11,000 J | 8,500 J | 6,100 |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | Dup of OS-SD-17 (8.6-9)<br>OS-SD-17D (8.6-9)<br>A4971-17<br>8.6-9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (0-6)<br>A4971-06<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (6-12)<br>A4971-07<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (1-2)<br>A4971-08<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18(10-10.9)<br>A4971-10<br>10-10.9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (0-6)<br>A4971-01<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (6-12)<br>A4971-02<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (1-2)<br>A4971-03<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (7-8)<br>A4971-05<br>7-8'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | Acetone | ug/Kg | 60 | 89 J | 57 | ND | ND | ND | 28 | 24 J | ND |
| 71-43-2 | Benzene | ug/Kg | 34 J | ND | ND | 11 J | ND | ND | ND | ND | ND |
| 78-93-3 | 2-Butanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | Carbon Disulfide | ug/Kg | ND | ND | ND | 19 J | ND | ND | 4.6 J | ND | ND |
| 108-90-7 | Chlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | Cyclohexane | ug/Kg | 7.5 J | ND | ND | 57 J | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-Dichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | ND | ND | ND | 28 J | ND | ND | ND | ND | ND |
| 591-78-6 | 2-Hexanone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | Isopropylbenzene | ug/Kg | 4.8 J | ND | ND | 280 J | ND | ND | ND | ND | ND |
| 79-20-9 | Methyl Acetate | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | Methyl tert-butyl Ether | ug/Kg | 12 J | 6.6 J | 5 J | ND | ND | ND | ND | ND | ND |
| 108-87-2 | Methylcyclohexane | ug/Kg | 9.8 J | ND | ND | 140 J | ND | ND | ND | ND | ND |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | Styrene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | 6.1 J | ND | ND | 36 J | ND | ND | ND | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | ND | ND | ND | 23 J | ND | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **134.2 J** | **95.6 J** | **62 J** | **594 J** | **ND** | **ND** | **32.6 J** | **24 J** | **ND** |
| | SEMIVOLATILES | | | | | | | | | | |
| 83-32-9 | Acenaphthene | ug/Kg | 87 J | ND | 4,600 J | 11,000 | 230 J | 690 J | ND | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | ND | ND | ND | 4,000 J | ND | ND | ND | ND | ND |
| 98-86-2 | Acetophenone | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | Anthracene | ug/Kg | ND | ND | 1,600 J | 15,000 | 140 J | 3,400 J | ND | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | ND | ND | 1,600 J | 17,000 | 99 J | 5,400 | 660 J | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | ND | ND | 1,400 J | 14,000 | 84 J | 4,600 | 930 J | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | ND | ND | 1,600 J | 13,000 | 73 J | 4,700 | 940 J | ND | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | ND | ND | 1,000 J | 7,500 | 50 J | 2,300 J | 640 J | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | ND | ND | 740 J | 4,100 J | ND | 1,600 J | 390 J | ND | ND |
| 92-52-4 | 1,1-Biphenyl | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 54 J | 1,900 J | 2,600 J | ND | 140 J | 1,900 J | 2,000 J | ND | 62 J |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | ND | ND | 1,700 J | 16,000 | 96 J | 5,500 | 640 J | ND | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | ND | ND | ND | 1,600 J | ND | 620 J | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | ND | ND | ND | 950 J | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | ND | ND | 3,200 J | 28,000 | 180 J | 9,500 | 1,100 J | ND | ND |
| 86-73-7 | Fluorene | ug/Kg | ND | ND | 710 J | 7,600 | 110 J | 820 J | ND | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | ND | 800 J | 5,800 | ND | 1,800 J | 540 J | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | ND | ND | ND | 7,900 | 300 J | ND | ND | ND | ND |
| 91-20-3 | Naphthalene | ug/Kg | ND | ND | ND | 1,800 J | 320 J | ND | ND | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | ND | ND | 3,800 J | 42,000 | 470 | 5,500 | 490 J | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | ND | 1,200 J | 4,400 J | 43,000 | 300 J | 14,000 | 1,600 J | 870 J | ND |
| | **Total SVOCs** | | **141 J** | **3,100 J** | **29,750 J** | **240,250 J** | **2,592 J** | **62,330 J** | **9,930 J** | **870 J** | **62 J** |

**Table 4**
**Validated Sediment Analytical Results - Detected Compound Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Pelham Former MGP Site - Pelham, NY**

| Consolidated Edison<br>Pelham Offsite RI<br>Validated Sediment Analytical Data<br>Detected Compound Summary | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled: | Dup of OS-SD-17 (8.6-9)<br>OS-SD-17D (8.6-9)<br>A4971-17<br>8.6-9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (0-6)<br>A4971-06<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (6-12)<br>A4971-07<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18 (1-2)<br>A4971-08<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-18(10-10.9)<br>A4971-10<br>10-10.9'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (0-6)<br>A4971-01<br>0-0.5'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (6-12)<br>A4971-02<br>0.5-1'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (1-2)<br>A4971-03<br>1-2'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 | OS-SD-19 (7-8)<br>A4971-05<br>7-8'<br>Chemtech<br>A4971<br>SEDIMENT<br>11/3/2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 5,940 | 12,000 J | 6,810 | 6,450 | 5,630 | 4,220 | 2,330 | 2,020 | 2,020 |
| 7440-36-0 | Antimony | mg/Kg | ND | 4.04 J | 2.19 J | 1.39 J | 0.57 J | 1.39 J | 0.86 J | 0.62 J | ND |
| 7440-38-2 | Arsenic | mg/Kg | 0.83 J | 9.33 J | 4.74 | 4.91 | ND | 3.68 | 10.1 | 1.34 | ND |
| 7440-39-3 | Barium | mg/Kg | 43.3 | 103 J | 60 | 90.5 | 20.9 | 23.8 | 18.3 | 13.1 | 14.1 |
| 7440-41-7 | Beryllium | mg/Kg | 0.29 | 0.61 J | 0.4 J | 0.34 | 0.24 J | 0.17 J | 0.21 J | 0.15 J | 0.09 J |
| 7440-43-9 | Cadmium | mg/Kg | 0.74 | 6.01 J | 2.93 | 1.5 | 0.35 | 1.3 | 1.54 | 0.61 | 0.06 J |
| 7440-70-2 | Calcium | mg/Kg | 9,360 | 15,100 J | 9,970 | 1,910 | 1,390 | 34,600 | 82,100 | 33,500 | 7,780 |
| 7440-47-3 | Chromium | mg/Kg | 18.5 | 84.7 J | 46.3 | 21.8 | 20.6 | 18.2 | 12.1 | 11.7 | 7.08 |
| 7440-48-4 | Cobalt | mg/Kg | 9.19 | 12 J | 6.65 | 5.56 | 5.81 | 4.45 | 2.9 | 2.64 | 1.99 |
| 7440-50-8 | Copper | mg/Kg | 20.4 | 232 J | 126 | 70.4 | 12.3 | 43 | 32.2 | 29 | 4.39 |
| 7439-89-6 | Iron | mg/Kg | 14,700 | 31,200 J | 21,800 | 14,600 | 12,900 | 18,100 | 23,500 | 11,200 | 4,020 |
| 7439-92-1 | Lead | mg/Kg | 6.58 | 370 J | 186 | 211 | 3.48 | 70.5 | 30.8 | 64.7 | 1.95 |
| 7439-95-4 | Magnesium | mg/Kg | 8,390 | 12,200 J | 7,320 | 3,290 | 4,020 | 12,800 | 7,280 | 2,200 | 5,350 |
| 7439-96-5 | Manganese | mg/Kg | 150 | 239 J | 158 | 114 | 212 | 191 | 372 | 148 | 53.5 |
| 7439-97-6 | Mercury | mg/Kg | 0.004 J | 0.716 J | 0.417 | 0.821 | ND | 0.11 | 0.074 | 0.066 | ND |
| 7440-02-0 | Nickel | mg/Kg | 19.9 | 62.9 J | 52.5 | 16.5 | 16.9 | 16.5 | 11.1 | 9.17 | 5.62 |
| 7440-09-7 | Potassium | mg/Kg | 1,750 | 3,140 J | 1,770 | 1,520 | 1,800 | 488 | 706 | 472 | 696 |
| 7782-49-2 | Selenium | mg/Kg | 0.63 J | 3.08 J | 1.97 | 1.22 | 0.84 J | 0.76 J | 0.55 J | ND | 0.46 J |
| 7440-22-4 | Silver | mg/Kg | ND | 1.76 J | 1.32 | 1.77 | ND | ND | ND | ND | ND |
| 7440-23-5 | Sodium | mg/Kg | 346 | 11,700 J | 4,660 | 1,920 | 153 | 1,530 | 812 | 610 | 1,240 |
| 7440-28-0 | Thallium | mg/Kg | ND | ND | ND | ND | 0.45 J | ND | 0.59 J | ND | ND |
| 7440-62-2 | Vanadium | mg/Kg | 23.1 | 51.3 J | 27.5 | 19.4 | 22.8 | 13 | 8.2 | 6.53 | 7.63 |
| 7440-66-6 | Zinc | mg/Kg | 38 | 738 J | 532 | 303 | 34 | 167 | 74 | 72 | 12 |
| 57-12-5 | Cyanide | mg/Kg | ND | 19 J | 13 | ND | ND | 1.95 | ND | ND | ND |
| | OTHER | | | | | | | | | | |
| 7440-44-0 | Total Organic Carbon | mg/Kg | 5,800 | 9,500 J | 9,400 | 10,000 | ND | 6,000 | 6,700 | 2,000 | 1,400 |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.
(3) R indicates a rejected value.

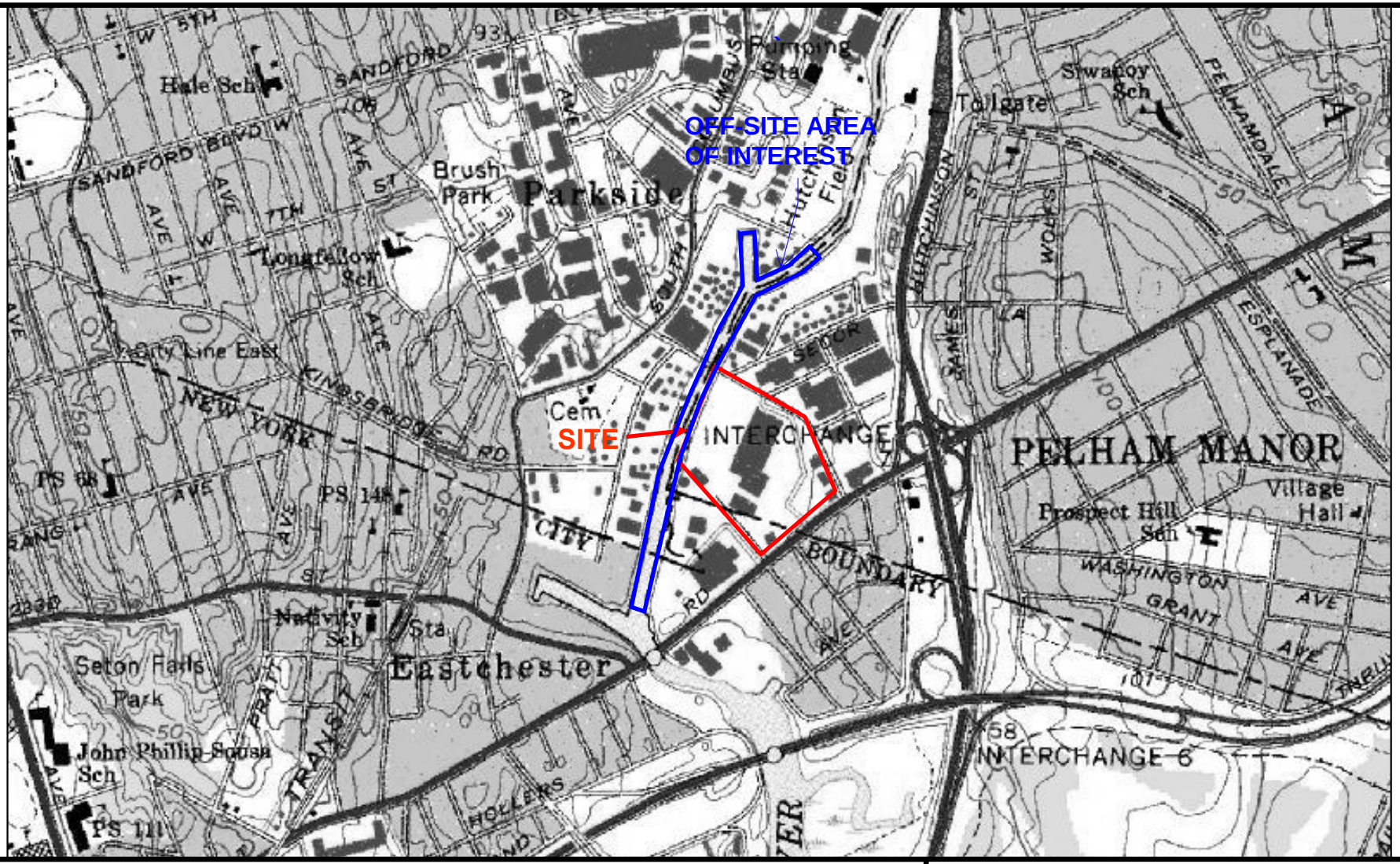
**Table 5**
**Geotechnical Test Results Summary**
**Data Summary Report - Off-Site Remedial Investigation**
**Former Pelham MGP Site - Pelham, NY**

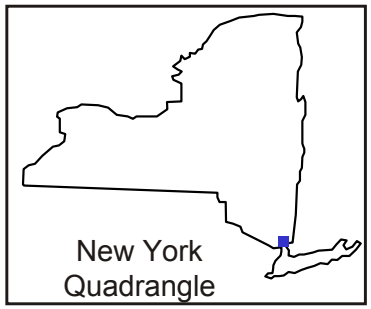
| BORING | SAMPLE ID | SAMPLE DEPTH (feet) | USCS (ASTM D2487) | GRADATION ANALYSIS (ASTM D422) SIEVE SIZES (% PASSING) | | | | | | | | | | | | | ATTERBERG LIMITS (ASTM D4318) | | | | ORGANIC CONTENT (ASTM D2974 C) | MOISTURE CONTENT (ASTM D2216) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2.0" | 1.5" | 1.0" | 3/4" | 1/2" | 3/8" | #4 | #10 | #20 | #40 | #60 | #100 | #200 | LL | PL | PI | LI | % | % |
| OS-OD-01 | OS-OD-01 | 6.5 to 9 | SM | - | - | - | 100.0 | 96.4 | - | 90.1 | 85.7 | 83.4 | 79.2 | 70.9 | 60.8 | 47.5 | NV | NP | NP | - | 6.3 | 60.3 |
| OS-OD-02 | OS-OD-02 | 4 to 7 | SM | - | - | 100.0 | 93.2 | 89.0 | 70.7 | 72.7 | 65.3 | 59.0 | 48.6 | 36.4 | 28.5 | 21.3 | NV | NP | NP | - | 5.1 | 39.6 |
| OS-OD-03 | OS-OD-03 | 2 to 4.5 | SM | - | - | - | - | 100.0 | 96.5 | 91.5 | 83.2 | 73.3 | 62.3 | 48.7 | 38.0 | 28.0 | NV | NP | NP | - | 6.1 | 62.0 |
| OS-OD-04 | OS-OD-04 | 5 to 7 | SM | - | - | - | - | - | 100.0 | 99.5 | 97.4 | 91.2 | 81.5 | 70.1 | 59.5 | 47.0 | NV | NP | NP | - | 7.8 | 102.6 |
| OS-OD-05 | OS-OD-05 | 5 to 6.5 | SM | - | - | - | - | 100.0 | 96.8 | 85.5 | 67.6 | 62.3 | 52.1 | 40.7 | 32.4 | 23.9 | NV | NP | NP | - | 0.7 | 20.0 |
| OS-OD-06 | OS-OD-06 | 5 to 8.5 | SW-SM | - | 100.0 | 77.0 | - | 75.8 | 73.3 | 70.7 | 67.8 | 41.1 | 19.0 | 11.2 | 8.6 | 6.6 | NV | NP | NP | - | 2.8 | 39.8 |
| OS-OD-07 | OS-OD-07 | 8 to 9 | SW-SM | - | - | 100.0 | 92.7 | 91.1 | 86.9 | 82.8 | 74.8 | 62.1 | 42.1 | 24.7 | 14.6 | 9.1 | NV | NP | NP | - | 0.7 | 16.5 |
| OS-OD-08 | OS-OD-08 | 1 to 2 | SM | - | - | - | 100.0 | 93.9 | 91.8 | 88.2 | 83.4 | 68.9 | 40.6 | 24.7 | 17.7 | 13.3 | NV | NP | NP | - | 8.2 | 44.3 |
| OS-OD-09 | OS-OD-09 | 3 to 4 | ML | - | - | - | - | - | 100.0 | 98.6 | 96.7 | 95.0 | 87.4 | 79.0 | 70.8 | 61.7 | NV | NP | NP | - | 7.4 | 105.0 |
| OS-OD-10 | OS-OD-10 | 10.5 to 11 | SM | - | - | - | 100.0 | 97.5 | 93.4 | 86.9 | 80.0 | 71.9 | 60.6 | 48.2 | 36.2 | 23.1 | NV | NP | NP | - | 0.3 | 11.8 |
| OS-OD-11 | OS-OD-11 | 9 to 13 | ML | - | - | - | - | - | 100.0 | 98.6 | 96.9 | 95.2 | 85.9 | 68.1 | 60.1 | 54.5 | NV | NP | NP | - | 6.0 | 68.8 |
| OS-OD-12 | OS-OD-12 | 4.5 to 8 | GM | 100 | 61.7 | - | - | - | 60.2 | 57.8 | 51.9 | 49.2 | 44.0 | 39.1 | 35.8 | 30.7 | NV | NP | NP | - | 8.6 | 12.8 |
| OS-OD-13 | OS-OD-13 | 7.5 to 10.5 | SP | - | - | - | - | - | 100.0 | 98.6 | 95.9 | 69.7 | 31.9 | 15.5 | 8.3 | 3.7 | NV | NP | NP | - | 5.7 | 43.8 |
| OS-OD-14 | OS-OD-14 | 7 to 9 | SM | - | - | 100.0 | 86.3 | 82.4 | 79.8 | 77.4 | 72.4 | 60.7 | 49.1 | 40.3 | 33.1 | 25.6 | NV | NP | NP | - | 6.9 | 42.4 |
| OS-OD-15 | OS-OD-15 | 12 to 14 | SP-SM | - | - | - | 100.0 | 96.9 | - | 95.3 | 88.7 | 78.4 | 54.2 | 28.5 | 14.8 | 8.8 | NV | NP | NP | - | 0.0 | 20.1 |
| OS-OD-16 | OS-OD-16 | 12 to 16 | SM | - | - | - | - | 100.0 | 97.2 | 96.4 | 93.9 | 85.9 | 74.8 | 60.3 | 48.4 | 36.9 | NV | NP | NP | - | 5.3 | 31.4 |
| OS-OD-17 | OS-OD-17 | 8 to 10.5 | SM | - | - | - | - | 100.0 | 91.6 | 84.1 | 78.1 | 65.5 | 46.8 | 31.8 | 26.1 | 21.8 | NV | NP | NP | - | 5.3 | 30.0 |
| OS-OD-18 | OS-OD-18 | 6 to 9 | SM | - | - | - | 100.0 | 98.6 | 98.0 | 97.3 | 94.7 | 88.6 | 76.0 | 60.2 | 45.7 | 35.2 | NV | NP | NP | - | 7.9 | 31.4 |
| OS-OD-19 | OS-OD-19 | 6 to 8 | SP | - | - | - | - | - | 100.0 | 98.8 | 96.9 | 90.0 | 62.1 | 25.1 | 7.4 | 3.0 | NV | NP | NP | - | 6.0 | 20.7 |

Notes:
(1) NV = No Value
(2) NP = Non Plastic
(3) Abbreviations:

LL - Liquid Limit
PL - Plastic Limit
PI - Plasticity Index
LI - Liquidity Index
GM - Silty Gravel
SW - Well Graded Sand
SP - Poorly Graded Sand
SM - Silty Sand
ML - Silt

# FIGURES




N

APPROXIMATE SCALE IN MILES

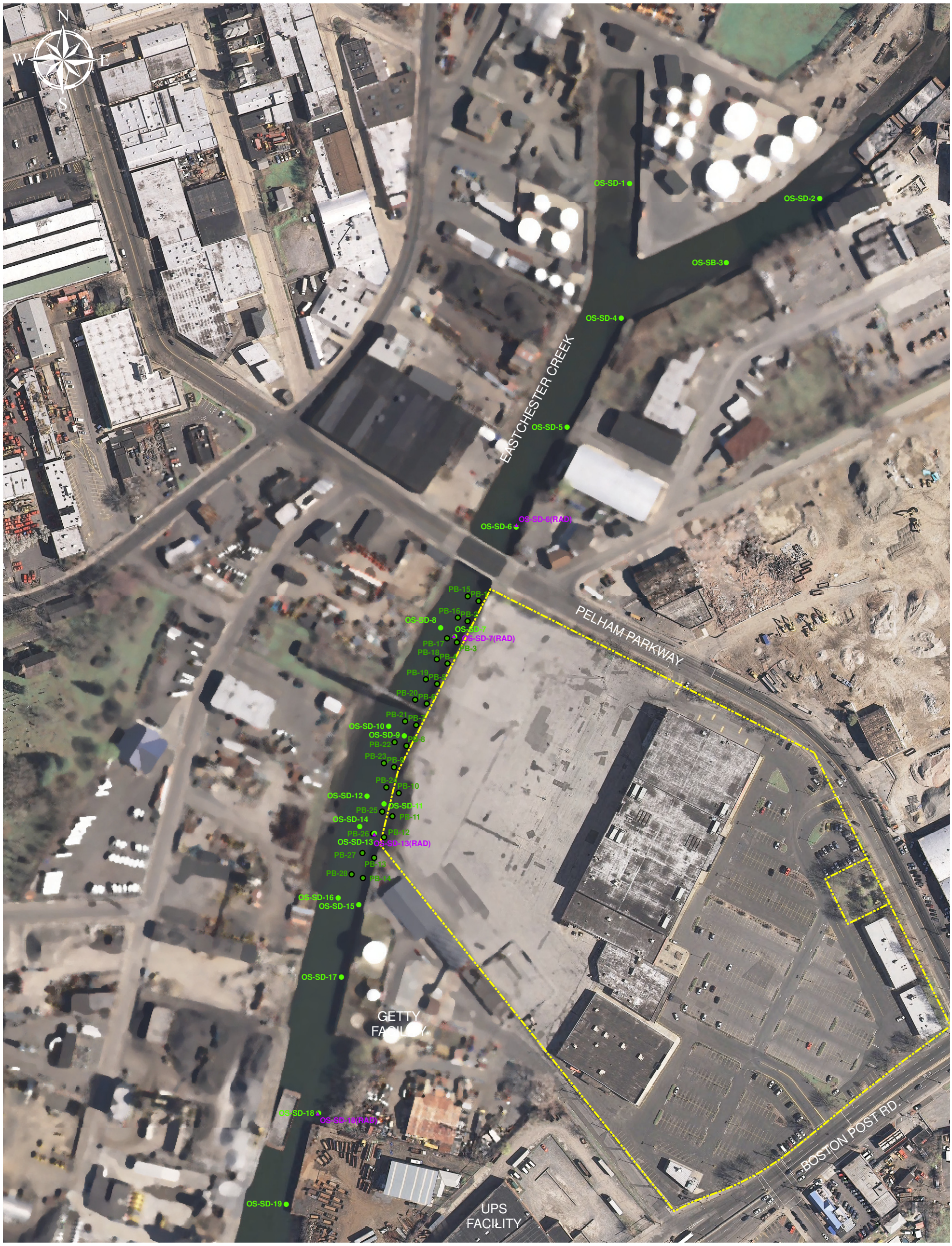
0 0.12 0.25 0.5

# FIGURE 1

## Site Location Map

Pelham Former MGP Site
Pelham, New York
Data Summary Report - Off-Site RI

**PARSONS**
100 HIGH ST, BOSTON, MA 02110 PHONE: (617) 946-9400




**LEGEND:**

OS-SD-1 — SEDIMENT CORING LOCATIONS

OS-SD-18(RAD) — RADIOISOTOPE SEDIMENT CORE LOCATIONS

PB-16 — SEDIMENT PROBING LOCATIONS

200 100 0 200 Feet

PARSONS
100 HIGH ST. 4TH FLOOR BOSTON, MA. 02110

Project:
PELHAM FORMER MGP SITE
DATA SUMMARY REPORT - OFF-SITE RI

Title:

FIGURE 2
SEDIMENT CORING
AND PROBING LOCATIONS

Scale: 1" = 200' | Date: NOVEMBER 2009 | Rev: -

P:\PIT\Projects\ConEd\Pelham Plaza\Drawings\Eastchester Creek\GIS\REPORT\FIGURE 2.mxd

N
W
E
S

EASTCHESTER CREEK

PELHAM PARKWAY

PB-15 6.8
PB-1 9.35
PB-16 6.9
PB-2 3.35
PB-17 6.2
PB-3 4.3
PB-18 7.5
PB-4 9.55
PB-19 5.6
PB-5 2.4
PB-20 10
PB-6 9.7
PB-21 9.5
PB-7 2.3
PB-22 7.3
PB-8 3.2
PB-23 8.1
PB-9 4.9
PB-24 8.8
PB-10 5.5
PB-25 11.6
PB-11 2.8
PB-26 10.8
PB-12 1.8
PB-27 9.5
PB-13 8.9
PB-28 9.25
PB-14 10.5

**LEGEND:**

PB-13
8.9

SEDIMENT PROBING LOCATION & PENETRATION DEPTH (FT)

PROPERTY BOUNDARY

60 30 0 60
Feet

PARSONS
100 HIGH ST. 4TH FLOOR BOSTON, MA. 02110

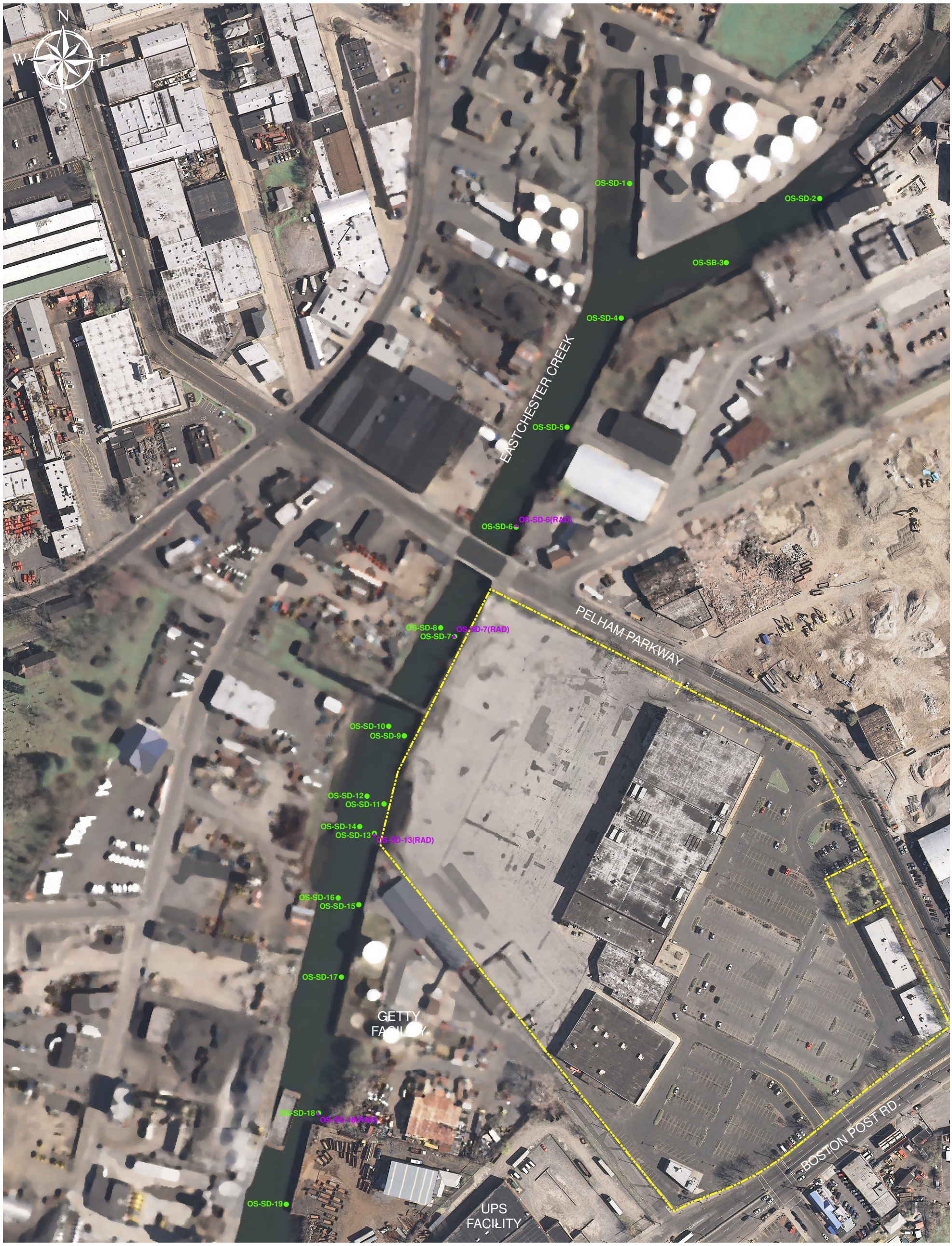
Project:
PELHAM FORMER MGP SITE
DATA SUMMARY REPORT - OFF-SITE RI

Title:

FIGURE 3
SEDIMENT PROBING
SAMPLE LOCATIONS
WITH PENETRATION DEPTHS

Scale: 1" = 60' | Date: NOVEMBER 2009 | Rev: -

P:\PIT\Projects\ConEd\Pelham Plaza\Drawings\Eastchester Creek\GIS\REPORT\FIGURE 3.mxd




**LEGEND:**

OS-SD-1 ● SEDIMENT CORING LOCATIONS

OS-SD-18(RAD) ▲ RADIOISOTOPE SEDIMENT CORE LOCATIONS

| Sediment Coring Location ID | Depth of Water Column (ft) | Targeted Depth of Core (ft) | Actual Depth of Penetration (ft) | % Core Recovery |
|---|---|---|---|---|
| OS-SD-1 | 1.2 | 12 | 12 | 81% |
| OS-SD-2 | 10.5 | 12 | 12 | 73% |
| OS-SB-3 | 8.5 | 12 | 7.8 | 71% |
| OS-SD-4 | 12.4 | 12 | 12 | 89% |
| OS-SD-5 | 11.2 | 12 | 12 | 88% |
| OS-SD-6 | 9.1 | 12 | 12 | 93% |
| OS-SD-7 | 9.0 | 20 | 16 | 92% |
| OS-SD-8 | 16.3 | 20 | 19 | 71% |
| OS-SD-9 | 5.4 | 20 | 19 | 92% |
| OS-SD-10 | 9.1 | 20 | 14.9 | 85% |
| OS-SD-11 | 7.4 | 20 | 19 | 93% |
| OS-SD-12 | 12.2 | 20 | 18.5 | 74% |
| OS-SD-13 | 10.6 | 20 | 19 | 99% |
| OS-SD-14 | 16.4 | 20 | 14.4 | 72% |
| OS-SD-15 | 7.3 | 20 | 18 | 91% |
| OS-SD-16 | 14.8 | 20 | 19 | 91% |
| OS-SD-17 | 10.8 | 12 | 12.5 | 100% |
| OS-SD-18 | 10.6 | 12 | 12 | 91% |
| OS-SD-19 | 17.8 | 12 | 12 | 68% |

200 100 0 200 Feet

PARSONS
100 HIGH ST. 4TH FLOOR BOSTON, MA. 02110

Project:
PELHAM FORMER MGP SITE
DATA SUMMARY REPORT - OFF-SITE RI

Title:
FIGURE 4
SEDIMENT CORING LOCATIONS WITH PERCENT RECOVERY DATA

Scale: 1" = 200' | Date: NOVEMBER 2009 | Rev: -

P:\PIT\Projects\ConEd\Pelham Plaza\Drawings\Eastchester Creek\GIS\REPORT\FIGURE 4.mxd

# APPENDIX A
# SEDIMENT CORING LOGS

**PARSONS**
**DRILLING/VIBRACORE RECORD**

**BORING/WELL NO.** OS-SD-01 Sheet 1 of 1

| | |
|---|---|
| **Contractor:** | OSI |
| **Driller:** | Steve G. |
| **Inspector:** | SD/BM/MH |
| **Rig Type:** | Vibracore |
| **PROJECT NAME:** | Pelham Sediment - Off Site investigation |
| **PROJECT NUMBER** | 445436 |
| **Location Description:** | |
| Northing | 752060.37 |
| Easting | 679846.66 |

SURFACE WATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Depth | 1.2 | | | |
| Date | 11/4/09 | | | |
| Time | 9:32 | | | |

| | | | |
|---|---|---|---|
| **Start Date** | 11/4/2009 | | |
| **Start Time** | **9:32** | | |
| **Finish Date** | 11/4/2009 | | |
| **Finish Time** | **9:35** | | |
| **Weather** | | | |

**Location Plan** N — See Site Plan

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-01 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-01 (6"-12") | | | 0 | Moist, dark grey, SILT and Sand, some angular Gravel (ML). | | |
| 1 | OS-SD-01 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | | ML | |
| | | | | 0 | Same as above (SAA). | | |
| 3 | | | | 0 | | | |
| | | | | 0 | | | |
| 4 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SILT and Sand, trace angular Gravel, interbedded Clay. | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 2.1 | | | |
| | | | | 0.8 | Same as above (SAA). | ML/SM | |
| 7 | | | | 1 | | | |
| | | | | 1 | | | |
| 8 | OS-SD-01(8-8.5') | | | 12 | Piece of plastic @ 8.5'. | | |
| | | | | 2 | Same as above (SAA). | | |
| 9 | | | | 0 | A piece of aluminium foil @ 9.5' | | |
| | | | | | **EOB @ 9.5'.** | | |
| 10 | | | | | | | |
| | | | | | | | |
| 11 | | | | | | | |
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| 12 | | | | | | | |
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| 13 | | | | | | | |
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| 14 | | | | | | | |
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| 15 | | | | | | | |
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| 16 | | | | | | | |
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| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **6.5'-9.0'**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-02** | |
| **Inspector:** | SD/BM/MH | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 752005.2746 | |
| | | | | | | | Easting | 680254.9238 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water Depth | 12.4 | | **Start Date** | 11/4/2009 | | | | N | |
| Date | 11/4/09 | | **Start Time** | **10:39** | | | | | |
| Time | 10:39 | | **Finish Date** | 11/4/2009 | | | See Site Plan | | |
| | | | **Finish Time** | **10:45** | | | | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-02 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-02 (6"-12") | | | 0 | Wet, dark grey, coarse to medium SAND, some Silt, trace fine subangular cobbles, plastic, leaves. (FILL) | | |
| 1 | OS-SD-02 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Same as above. (SAA) | | |
| | | | | 0.0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0.0 | | | |
| 4 | | | | 0 | Wet, grey, SILT and Sand, little organics & leaves, trace sticks & plastic. | FILL | |
| | | | | 0 | Wet, grey angular GRAVEL, some Silt (GM). | GM | |
| 5 | | | | 0 | Wet, dark grey, SILT and Sand, trace Gravel. | ML | |
| | | | | 0 | | | |
| 6 | | | | 0 | | | |
| | | | | 0 | | | |
| 7 | | | | 0 | Wet, dark grey, coarse to medium SAND, some silt (SM). | SM | |
| | | | | 0 | | | |
| 8 | OS-SD-02 (8-8.6') | | | 0 | | | |
| | | | | 0 | | | |
| 9 | | | | 0 | | | |
| | | | | | **EOB @ 9.4'.** | | |
| 10 | | | | | | | |
| | | | | | | | |
| 11 | | | | | | | |
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| 12 | | | | | | | |
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| 13 | | | | | | | |
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| 14 | | | | | | | |
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| 15 | | | | | | | |
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| 16 | | | | | | | |
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| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **4'-7'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-03** | |
| **Inspector:** | SD/BM/MH | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751864 | |
| | | | | | | | Easting | 680056.2 | |

| SURFACE WATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water 8. Depth | 5 | 8.5 | 9.2 | |
| Date | 11/4/09 | 11/4/09 | 11/4/09 | |
| Time | 11:39 | 12:19 | 12:56 | |

| | | | |
|---|---|---|---|
| **Start Date** | 11/4/2009 | | |
| **Start Time** | **11:39** | | |
| **Finish Date** | 11/4/2009 | | |
| **Finish Time** | **13:03:00 PM** | | |
| **Weather** | | | |

**Location Plan** N

See Site Plan

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-03 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | OS-SD-03 (6"-12") | | | 0 | | | |
| 1 | OS-SD-03 (1'-2') | | | 0 | | | |
| | | | | 0 | Wet, black, SILT and Sand, some Organics, trace plastic (ML). | ML | |
| 2 | | | | 0 | | | |
| | | | | 0 | | | |
| 3 | | | | 0 | Wet, grey,angular GRAVEL, some Silt (GM). | GM | |
| | | | | 0 | Wet, dark grey, SILT and Sand, some fine Gravel (SM). | SM | |
| 4 | | | | 0 | | | |
| | OS-SD-03 (4.5-5') | | | 0 | | | |
| 5 | | | | | **EOB @ 5'.** | | |
| | | | | | | | |
| 6 | | | | | | | |
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| 7 | | | | | | | |
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| 8 | | | | | | | |
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| 9 | | | | | | | |
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| 10 | | | | | | | |
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| 12 | | | | | | | |
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| 13 | | | | | | | |
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| 14 | | | | | | | |
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| 15 | | | | | | | |
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| 16 | | | | | | | |
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| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **2'-4.5'**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-04** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751747.76 | |
| | | | | | | | Easting | 679823.7872 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/5/2009 | | | **Location Plan** | | |
| Water 12 Depth | 4 | | **Start Time** | **12:36** | | | | | N |
| Date | 11/5/09 | | **Finish Date** | 11/4/2009 | | | | See Site Plan | |
| Time | 12:36 | | **Finish Time** | **12:39** | | | | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-04 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-04 (6"-12") | | | 0 | | | |
| 1 | OS-SD-04 (1'-2') | | | 0 | Wet, black, SILT, some Sand (ML). | ML | |
| | | | | 0 | | | |
| 2 | | | | 0 | | | |
| | | | | 0 | | | |
| 3 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 4 | | | | 0 | Wet, black, SILT and Sand, some Gravel & Organics, trace leaves & trash (ML). | ML | |
| | | | | 0 | | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 7 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, coarse to medium SAND, some Silt, some subrounded Gravel (SM). | SM | |
| 8 | OS-SD-04 (8-8.5') | | | 0 | | | |
| | | | | 0 | | | |
| 9 | | | | 0 | | | |
| | | | | 0 | Same as above (SAA). | | |
| 10 | | | | 0 | | | |
| | | | | | **EOB @ 10.5'.** | | |
| 11 | | | | | | | |
| | | | | | | | |
| 12 | | | | | | | |
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| 13 | | | | | | | |
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| 14 | | | | | | | |
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| 15 | | | | | | | |
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| 16 | | | | | | | |
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| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 5'-7'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-05** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751512.24 | |
| | | | | | | | Easting | 679707.98 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 11 Depth | 2 | | | | **Start Date** | 11/5/2009 | | | N |
| Date | 11/5/09 | | | | **Start Time** | **11:40** | | | |
| Time | 11:40 | | | | **Finish Date** | 11/5/2009 | | | |
| | | | | | **Finish Time** | **11:45** | | | See Site Plan |
| | | | | | **Weather** | | | | |

| **Sample Depth (ft)** | **Sample I.D.** | **SPT** | **In. Rec. Per 24 in.** | **PID (ppm)** | **FIELD IDENTIFICATION OF MATERIAL** | **STRATA** | **COMMENTS** |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| **0** | **OS-SD-05 (0"-6")** | | | **0** | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | **OS-SD-05 (6"-12")** | | | **0** | | | |
| **1** | **OS-SD-05 (1'-2')** | | | **0** | | | |
| | | | | **0** | | **FILL** | |
| **2** | | | | **0** | Same as above (SAA). | | |
| | | | | **0** | | | |
| **3** | | | | **0** | | | |
| | | | | **0** | Wet, dark grey, coarse to fine SAND, some Gravel, little silt (SM). | | |
| **4** | | | | **0** | | **SM** | |
| | | | | **0** | \ | | |
| **5** | | | | **0.3** | chemical odor | | |
| | | | | **0** | Wet, dark grey, coarse to medium SAND, some Silt, little subrounded fine Gravel (SM). | | |
| **6** | | | | **0** | | | |
| | | | | **0** | | | |
| **7** | | | | **0** | | | |
| | | | | **0** | Same as above (SAA). | | |
| **8** | | | | **0** | | **SM** | |
| | | | | **0** | | | |
| **9** | **OS-SD-05 (9-9.5')** | | | **0** | | | |
| | | | | **0** | Same as above (SAA). | | |
| **10** | | | | **0** | | | |
| | | | | | **EOB @ 10.5'.** | | |
| **11** | | | | | | | |
| | | | | | | | |
| **12** | | | | | | | |
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| **13** | | | | | | | |
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| **14** | | | | | | | |
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| **15** | | | | | | | |
| | | | | | | | |
| **16** | | | | | | | |
| | | | | | | | |
| **17** | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 5'-6.5'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-06** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751296 | |
| | | | | | | | Easting | 679598.9272 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/5/2009 | | | **Location Plan** | | |
| Water 9.1 Depth | | | **Start Time** | **10:47** | | | | | N |
| Date | 11/5/09 | | **Finish Date** | 11/5/2009 | | | | | |
| Time | 10:47 | | **Finish Time** | **10:50** | | | See Site Plan | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-06 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-06 (6"-12") | | | 0 | | | |
| 1 | OS-SD-06 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Wet, dark grey, SILT and Sand, some coarse to medium Sand, little Organics (ML). | ML | |
| | | | | 0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0 | | | |
| 4 | | | | 1 | Same as above (SAA). | | |
| | | | | 1 | | | |
| 5 | | | | 0.8 | | | |
| | | | | 0.8 | Wet, dark grey, coarse to medium SAND, some Silt, little subrounded fine Gravel (SM). | SM | |
| 6 | | | | 2.8 | | | |
| | | | | 0 | | | |
| 7 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SAND and Gravel, some Silt, trace cobbles (SM). | | |
| 8 | | | | 0 | | | |
| | OS-SD-06 (8.5-9') | | | 4.2 | Wet, light grey, SILT and Sand, little Gravel (ML). | ML | |
| 9 | | | | 0 | Wet, light grey, coarse to medium SAND, some Silt (SM). | SM | |
| | | | | 0 | | | |
| 10 | | | | 0 | | | |
| | | | | 0 | | | |
| 11 | | | | | **EOB @ 11.5'.** | | |
| | | | | | | | |
| 12 | | | | | | | |
| | | | | | | | |
| 13 | | | | | | | |
| | | | | | | | |
| 14 | | | | | | | |
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| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **5'-8.5'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-07** | |
| **Inspector:** | SD/BM/MH | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751059.587 | |
| | | | | | | | Easting | 679470.5137 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 9 Depth | | | | | **Start Date** | 11/5/2009 | | | N |
| Date | 11/5/09 | | | | **Start Time** | **9:36** | | | |
| Time | 9:36 | | | | **Finish Date** | 11/5/2009 | | | |
| | | | | | **Finish Time** | **9:44** | | | See Site Plan |
| | | | | | **Weather** | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-07 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | ML | |
| | OS-SD-07 (6"-12") | | | 0 | | | |
| 1 | OS-SD-07 (1'-2') | | | 0.4 | Wet, dark grey, SILT and Sand, some gravel, trace organic matter (ML). | | |
| | | | | 0 | | | |
| 2 | | | | 0 | | | |
| | | | | 0 | | ML | |
| 3 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 4 | | | | 0 | | | |
| | | | | 0 | | | |
| 5 | | | | 0 | Wet, dark grey, SILT, some medium to fine Sand, trace gravel (ML). | | |
| | | | | 0 | | | |
| 6 | | | | 0 | | | |
| | | | | 0 | plastic at 6.5' | | |
| 7 | | | | 0 | Same as above (SAA). | ML | |
| | | | | 1.8 | | | |
| 8 | | | | 3 | | | |
| | | | | 1.8 | | | |
| 9 | | | | 3.5 | Wet, grey, coarse to medium SAND, little silt (SM). | | |
| | | | | 3.7 | | | |
| 10 | | | | 0 | | | |
| | | | | 0 | | | |
| 11 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | SM | |
| 12 | | | | 0 | | | |
| | | | | 0 | | | |
| 13 | | | | 0 | | | |
| | | | | 0 | Same as above (SAA). | | |
| 14 | OS-SD-07 (14-14.5') | | | 5.6 | | | |
| | | | | | EOB @ 14.5'. | | |
| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 8'-9'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-08** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 751078.43 | |
| | | | | | | | Easting | 679437.91 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 16 Depth | 3 | | | | **Start Date** | 11/5/2009 | | | N |
| Date | 11/5/09 | | | | **Start Time** | **14:00** | | | |
| Time | 14:00 | | | | **Finish Date** | 11/5/2009 | | | |
| | | | | | **Finish Time** | **14:15** | | | See Site Plan |
| | | | | | **Weather** | | | | |

| **Sample Depth (ft)** | **Sample I.D.** | **SPT** | **In. Rec. Per 24 in.** | **PID (ppm)** | **FIELD IDENTIFICATION OF MATERIAL** | **STRATA** | **COMMENTS** |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| **0** | **OS-SD-08 (0"-6")** | | | **2.9** | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | **FILL** | |
| | **OS-SD-08 (6"-12")** | | | **0** | | | |
| **1** | **OS-SD-08 (1'-2')** | | | **0** | | | |
| | | | | **0** | | | |
| **2** | | | | **0** | Same as above (SAA). | | |
| | | | | **0** | | | |
| **3** | | | | **0** | | | |
| | | | | **0** | | | |
| **4** | | | | **0** | SAA. | | |
| | | | | **0** | | | |
| **5** | | | | **0** | Wet,grey, coarse to medium SAND, some Silt, some Gravel (SM). | **SM** | |
| | | | | **0** | | | |
| **6** | | | | **0** | | | |
| | | | | **0** | | | |
| **7** | | | | **0** | SAA. | | |
| | | | | **0** | | | |
| **8** | | | | **0** | | | |
| | | | | **0** | Wet, brown, coarse to medium poorely graded SAND, some interbedded Silt lenses (SM/SP). | **SM/SP** | |
| **9** | | | | **0** | | | |
| | **OS-SD-08 (9.5-10')** | | | **0** | | | |
| **10** | | | | **0** | | | |
| | | | | | Wet, grey, coarse to medium SAND, little Silt, trace subrounded Gravel and small cobbles (SM). | **SM** | |
| **11** | | | | | | | |
| | | | | | | | |
| **12** | | | | | | | |
| | | | | | SAA. | | |
| **13** | | | | | | | |
| | | | | | EOB @ 13.5'. | | |
| **14** | | | | | | | |
| | | | | | | | |
| **15** | | | | | | | |
| | | | | | | | |
| **16** | | | | | | | |
| | | | | | | | |
| **17** | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 1'-2'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-09** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 750845.991 | |
| | | | | | | | Easting | 679362.4 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/5/2009 | | | **Location Plan** | | |
| Water 5 Depth | .4 | | **Start Time** | **8:30** | | | | | N |
| Date | 11/5/09 | | **Finish Date** | 11/5/2009 | | | | | |
| Time | 8:30 | | **Finish Time** | **8:35** | | | See Site Plan | | |
| | | | **Weather** | | | | | | |

| **Sample Depth (ft)** | **Sample I.D.** | **SPT** | **In. Rec. Per 24 in.** | **PID (ppm)** | **FIELD IDENTIFICATION OF MATERIAL** | **STRATA** | **COMMENTS** |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| **0** | **OS-SD-09 (0"-6")** | | | **0** | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | **OS-SD-09 (6"-12")** | | | **0** | | | |
| **1** | **OS-SD-09 (1'-2')** | | | **0** | Wet, black, SILT and Sand, some ORGANICS, trace gravel (ML). | | |
| | | | | **0** | | **ML** | |
| **2** | | | | **0** | | | |
| | | | | **0** | Wet, dark grey, SILT and Sand, some Gravel, little medium fine Sand (ML). Leaves throughout. | | |
| **3** | | | | **0** | | | |
| | | | | **0** | | | |
| **4** | | | | **0** | | | |
| | | | | **0** | Wet, dark grey, SILT and Sand, trace angular Gravel, interbedded Clay. | | |
| **5** | | | | **0** | | | |
| | | | | **0** | | | |
| **6** | | | | **0** | | **ML** | |
| | | | | **0** | SAA. | | |
| **7** | | | | **0** | | | |
| | | | | **0** | | | |
| **8** | | | | **0** | | | |
| | | | | **0** | SAA. | | |
| **9** | | | | **0** | | | |
| | | | | **0** | | | |
| **10** | | | | **0** | | | |
| | | | | **0** | Wet, grey, coarse to medium SAND, some Silt, trace Gravel (SM). | | |
| **11** | | | | **0** | | | |
| | | | | **0** | | | |
| **12** | | | | **0** | slight chemical odor. | | |
| | | | | **0** | SAA. | | |
| **13** | | | | **0** | | | |
| | | | | **0** | | | |
| **14** | | | | **0** | slight chemical odor. | **SM** | |
| | | | | **0** | SAA. | | |
| **15** | | | | **0** | | | |
| | | | | **0** | | | |
| **16** | | | | **0** | slight chemical odor. | | |
| | | | | **0** | SAA. | | |
| **17** | **OS-SD-09(17-17.5')** | | | **1** | slight chemical odor. | | |
| | | | | | **EOB @ 17.5'.** | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 3'-4'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-10** | | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** Pelham Sediment - Off Site investigation | | | | **Location Description:** | | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** 445436 | | | | Northing | 750867.096 | | |
| | | | | | | | Easting | 679322.832 | | |
| SURFACE WATER OBSERVATIONS | | | | | **Start Date** | 11/6/2009 | | | **Location Plan** | |
| Water 9 Depth | .1 | | | | **Start Time** | **9:03** | | | N | |
| Date | 11/6/09 | | | | **Finish Date** | 11/6/2009 | | | | |
| Time | 9:03 | | | | **Finish Time** | **9:10** | | | See Site Plan | |
| | | | | | **Weather** | | | | | |

| **Sample Depth (ft)** | **Sample I.D.** | **SPT** | **In. Rec. Per 24 in.** | **PID (ppm)** | **FIELD IDENTIFICATION OF MATERIAL** | **STRATA** | **COMMENTS** |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| **0** | **OS-SD-10 (0"-6")** | | | **0** | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | **OS-SD-10 (6"-12")** | | | **0** | | | |
| **1** | **OS-SD-10 (1'-2')** | | | **0** | | | |
| | | | | **0** | | | |
| **2** | | | | **0** | Same as above. | | |
| | | | | **0** | | **FILL** | |
| **3** | | | | **0** | | | |
| | | | | **0** | Wet, black, decaying organic matter, some Sand, little Clay. | | |
| **4** | | | | **0** | | | |
| | | | | **10** | | | |
| **5** | | | | **20** | | | |
| | | | | **18** | Wet, dark grey, coarse to medium SAND, some Silt, little subrounded fine Gravel (SM). | | |
| **6** | **OS-SD-10 (6'-6.5')** | | | **38.5** | Staining on liner @ 5'-7.5'. Strong MGP-like odor. | | |
| | | | | **38** | | **SM** | |
| **7** | | | | **25.8** | | | |
| | | | | **32** | Same as above (SAA). | | |
| **8** | | | | **20.5** | | | |
| | **OS-SD-10 (8.5'-9')** | | | **35** | Wet, dark grey, SAND, some silt (SM). | | |
| **9** | | | | **18** | Staining on liner @ 8'-9.5'. Strong MGP-like odor. | **SM** | |
| | | | | **11.8** | | | |
| **10** | | | | **0** | | | |
| | | | | **0** | Wet, stiff, brown, CLAY and Silt, little fine sand (ML/CL). | **ML/CL** | |
| **11** | | | | **0** | | | |
| | | | | **6.8** | Wet, dark grey, SAND and Silt, some Gravel (SM). | **SM** | |
| **12** | | | | **0** | Staining on liner @ 11.5'-12.5'. | | |
| | | | | | **EOB @ 12.5'** | | |
| **13** | | | | | | | |
| | | | | | | | |
| **14** | | | | | | | |
| | | | | | | | |
| **15** | | | | | | | |
| | | | | | | | |
| **16** | | | | | | | |
| | | | | | | | |
| **17** | | | | | | | |

**SAMPLING METHOD**

SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 10.5'-11.5'.

Density of the soil sample is based on the field inspectors inference of the core sample. No SPT blow counts were collected.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-11** | |
| **Inspector:** | SD/MH/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 750698.4 | |
| | | | | | | | Easting | 679316.81 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/4/2009 | | | **Location Plan** | | |
| Water 7 Depth | .4 | | **Start Time** | **14:28** | | | | N | |
| Date | 11/4/09 | | **Finish Date** | 11/4/2009 | | | | | |
| Time | 14:28 | | **Finish Time** | **14:33** | | | See Site Plan | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-11 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-11 (6"-12") | | | 0 | | | |
| 1 | OS-SD-11 (1'-2') | | | 0 | | | |
| | | | | 0 | Wet, black, SILT, some Organic matter, trace Sand (ML). | ML | |
| 2 | | | | 0 | | | |
| | | | | 0 | | | |
| 3 | | | | 0 | Wet, dark grey SILT and Sand, some Clay, trace Gravel (ML). | ML | |
| | | | | 0 | | | |
| 4 | | | | 0 | | | |
| | | | | 0 | | | |
| 5 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 6 | | | | 0 | | | |
| | | | | 0 | A piece of plastic @ 6.5'. | | |
| 7 | | | | 0 | SAA. | | |
| | | | | 0 | A piece of plastic @ 7.5'. | | |
| 8 | | | | 0 | | | |
| | | | | 0 | | | |
| 9 | | | | 1 | SAA. | | |
| | | | | 3.1 | | | |
| 10 | | | | 2.8 | | | |
| | | | | 5.8 | | | |
| 11 | | | | 10 | | | |
| | | | | 3 | Wet, grey, coarse to fine SAND, some silt (SM), napthalene like (moth ball) odor. | SM | |
| 12 | | | | 7.8 | | | |
| | | | | 8 | | | |
| 13 | | | | 12 | | | |
| | | | | 7.6 | SAA. | | |
| 14 | | | | 18 | Wet, brown, coarse to fine SAND, some Silt (SM). | SM | |
| | | | | 18 | | | |
| 15 | | | | 15 | Wet, grey, medium to fine SAND, some Silt (SM). | | |
| | OS-SD-11 (15.5-16') | | | 25.7 | | | |
| 16 | | | | 8.9 | staining on the liner @ 15.5'-16' | | |
| | | | | 12.3 | | | |
| 17 | | | | 18 | staining on the liner @ 17'-17.5' | | |
| | | | | | **EOB @ 17.5'.** | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **9'-13'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-12** | |
| **Inspector:** | SD/BM | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 750714.679 | |
| | | | | | | | Easting | 679275.2139 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 12.2 Depth | | | | | **Start Date** | 11/3/2009 | | | N |
| Date | 11/3/09 | | | | **Start Time** | **14:36** | | | |
| Time | 14:36 | | | | **Finish Date** | 11/3/2009 | | | |
| | | | | | **Finish Time** | **14:41** | See Site Plan | | |
| | | | | | **Weather** | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-12 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | OS-SD-12 (6"-12") | | | 0 | | | |
| 1 | OS-SD-12 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Wet, black, ORGANIC sediment, some coarse to medium subrounded Gravel, concrete, little medium to fine Sand, glass, plastic, leaves, strong decay odor. | FILL | |
| | | | | 0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0 | Wet, black, ORGANIC sediment with moderate plasticity and siffness, some medium subrounded gravel, little Silt, micaceous, leaves, plastics. | | |
| 4 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SILT and Sand, trace angular Gravel, interbedded Clay. | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | | | |
| | | | | 0 | Same as above (SAA). | SP/SM | |
| 7 | | | | 0 | | | |
| | | | | 0 | | | |
| 8 | OS-SD-12 (8-8.5') | | | 0 | | | |
| | | | | 0 | Wet, grey, medium to fine SAND, some Silt, micaceous (SM). | | |
| 9 | | | | 0 | | SM | |
| | | | | 0 | | | |
| 10 | | | | 0 | Wet, grey to brown, fine SAND, subrounded/subangular Gravel, some cobbles (1.5" to 2.5"), little loose Silt, some coarse to fine Gravel (SM). | | |
| | | | | 0 | | | |
| 11 | | | | | | | |
| | | | | | | SM | |
| 12 | | | | | SAA. | | |
| | | | | | | | |
| 13 | | | | | | | |
| | | | | | **EOB @ 13.4'.** | | |
| 14 | | | | | | | |
| | | | | | | | |
| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **4.5'-8.0'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 2 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-13** | |
| **Inspector:** | SD/BM/MH | | **PROJECT NAME:** Pelham Sediment - Off Site investigation | | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** 445436 | | | | Northing | 750632.8095 | |
| | | | | | | | Easting | 679296.3428 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/3/2009 | | | **Location Plan** | | |
| Water Depth | 10.6 | | **Start Time** | **13:05** | | | N | | |
| Date | 11/3/09 | | **Finish Date** | 11/3/2009 | | | See Site Plan | | |
| Time | 13:05 | | **Finish Time** | **13:10** | | | | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-13 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-13 (6"-12") | | | 0 | | | |
| 1 | OS-SD-13 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0 | Wet, black, highly ORGANIC decaying matter, trace Silt and Sand (OL/PT). | OL/PT | |
| 4 | | | | 0 | | | |
| | | | | 0 | | | |
| 5 | | | | 0 | | | |
| | | | | 0 | SAA. | | |
| 6 | | | | 0 | | | |
| | | | | 0 | | | |
| 7 | | | | 0 | | | |
| | | | | 0 | SAA. | | |
| 8 | | | | 0 | | | |
| | | | | 0 | SAA some small cobbles. | | |
| 9 | | | | 0 | | | |
| | | | | 0 | | | |
| 10 | | | | 0 | Wet, grey, coarse to medium SAND, little interbedded Silt and Clay lenses. (SM) | SM | |
| | | | | 0 | | | |
| 11 | | | | 0 | | | |
| | | | | 0 | | | |
| 12 | OS-SD-12 (12'-13') | | | 0 | SAA. | | |
| | | | | 0 | | | |
| 13 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SILT and Sand, some Clay (ML). | ML | |
| 14 | | | | 0 | | | |
| | | | | 0 | | | |
| 15 | | | | 0 | | | |
| | | | | 0 | Wet, grey, coarse to medium SAND, some silt (SM). | SM | |
| 16 | | | | 0 | | | |
| | | | | 0 | | | |
| 17 | | | | 0 | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **7.5'-10.5'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

**PARSONS**
**DRILLING/VIBRACORE RECORD**

**BORING/** Sheet 2 of 2
**WELL NO** OS-SD-13

**Contractor:** OSI
**Driller:**
**Inspector:** Scott Dilman
**Rig Type:** Vibracore

**PROJECT NAME:** Pelham Sediment - Off Site investigation
**PROJECT NUMBER:**

**Location Description:**
Northing
Easting

SURFACE WATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Depth | | | | |
| Date | | | | |
| Time | | | | |

| | | | |
|---|---|---|---|
| **Start Date** | 11/3/2009 | | |
| **Start Time** | **13:05** | | |
| **Finish Date** | 11/3/2009 | | |
| **Finish Time** | **13:10** | | |
| **Weather** | | | |

**Location Plan**
N
See Site Plan

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | SAA. | SM | |
| 18 | | | | 0 | | | |
| | | | | 0 | **EOB @ 18.3'** | | |
| 19 | | | | 0 | | | |
| | | | | 0 | | | |
| 20 | | | | 0 | | | |
| | | | | 0 | | | |
| 21 | | | | 0 | | | |
| | | | | 0 | | | |
| 22 | | | | 0 | | | |
| | | | | 0 | | | |
| 23 | | | | 0 | | | |
| | | | | 0 | | | |
| 24 | | | | 0 | | | |
| | | | | 0 | | | |
| 25 | | | | 0 | | | |
| | | | | 0 | | | |
| 26 | | | | 0 | | | |
| | | | | 0 | | | |
| 27 | | | | 0 | | | |
| | | | | 0 | | | |
| 28 | | | | 0 | | | |
| | | | | 0 | | | |
| 29 | | | | 0 | | | |
| | | | | 0 | | | |
| 30 | | | | 0 | | | |
| | | | | 0 | | | |
| 31 | | | | 0 | | | |
| | | | | 0 | | | |
| 32 | | | | 0 | | | |
| | | | | 0 | | | |
| 33 | | | | 0 | | | |
| | | | | 0 | | | |
| 34 | | | | 0 | | | |
| | | | | 0 | | | |
| 35 | | | | 0 | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 |
| **Driller:** | Steve G. | | | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-14** |
| **Inspector:** | SD/BM/JS | | | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | |
| **Rig Type:** | Vibracore | | | | **PROJECT NUMBER** | 445436 | | | Northing | 750647.452 |
| | | | | | | | | | Easting | 679258.4069 |
| SURFACE WATER OBSERVATIONS | | | | | **Start Date** | 11/3/2009 | | | **Location Plan** | |
| Water 16 Depth | 7 | 16.8 | 16.4 | | **Start Time** | **10:04** | | | N | |
| Date | 11/3/09 | 11/3/09 | ###### | | **Finish Date** | 11/3/2009 | | | See Site Plan | |
| Time | 10:04 | 0.43 | 0.4833 | | **Finish Time** | **11:44** | | | | |
| | | | | | **Weather** | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-14 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-14 (6"-12") | | | 0 | | | |
| 1 | OS-SD-14 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Same as above (SAA). | | |
| | | | | 0.0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0.0 | | | |
| 4 | | | | 0 | SAA. | | |
| | | | | 0 | | | |
| 5 | | | | 0 | | | |
| | | | | 0 | Wet, black, ORGANIC sediment, some plastic like material, some coarse to medium Sand. | | |
| 6 | | | | 0 | | | |
| | | | | 0 | | | |
| 7 | OS-SD-14 (7-7.5') | | | 78.2 | | | |
| | | | | 0 | Wet, grey, coarse to fine SAND, some fine subrounded Gravel, trace Silt, cobbles. | SM | |
| 8 | | | | 0 | | | |
| | | | | 0 | | | |
| 9 | | | | 0 | | | |
| | | | | 0 | SAA. | | |
| 10 | | | | 0 | | | |
| | | | | | **EOB @ 10.2'** | | |
| 11 | | | | | | | |
| | | | | | | | |
| 12 | | | | | | | |
| | | | | | | | |
| 13 | | | | | | | |
| | | | | | | | |
| 14 | | | | | | | |
| | | | | | | | |
| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 7'-9'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-15** | |
| **Inspector:** | SD/BM/JS | | **PROJECT NAME:** Pelham Sediment - Off Site investigation | | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** 445436 | | | | Northing | 750481.53 | |
| | | | | | | | Easting | 679257.9973 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 7.3 Depth | | | **Start Date** | 11/2/2009 | | | N | | |
| Date | 11/2/09 | | **Start Time** | **15:09** | | | | | |
| Time | 15:09 | | **Finish Date** | 11/2/2009 | | | See Site Plan | | |
| | | | **Finish Time** | **15:13** | | | | | |
| | | | **Weather** | | | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-15 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-15 (6"-12") | | | 0 | | | |
| 1 | OS-SD-15 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | Same as above (SAA). | | |
| | | | | 0 | | | |
| 3 | | | | 0 | | | |
| | | | | 0 | Wet, black, ORGANIC sediment, trace Gravel. | | |
| 4 | | | | 0 | | | |
| | | | | 0 | | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | Wet, grey, organic CLAY (OL/OH). | OL/OH | |
| | | | | 0 | | | |
| 7 | | | | 0 | | | |
| | | | | 0 | | | |
| 8 | | | | 0 | | | |
| | | | | 0 | Wet, grey, coarse to fine SAND, micaceous, some loose Silt, interbeded Clay lenses (SM/SC). | SM/SC | |
| 9 | | | | 0 | | | |
| | | | | 0 | | | |
| 10 | | | | 0 | | | |
| | | | | 0 | SAA. | | |
| 11 | | | | 0 | | | |
| | | | | 0 | Wet, grey, coarse to fine SAND, some Silt, micaceous, little sub rounded Gravel (SM/SC). | SP/SM | |
| 12 | | | | 0 | | | |
| | | | | 0 | | | |
| 13 | | | | 0 | Wet, grey, SILT, interbedded with fine Sand and Clay (ML/CL). | ML/CL | |
| | | | | 0 | | | |
| 14 | OS-SD-15 (14-14.5') | | | 0 | Strong odor @ 14-14.5' | | |
| | | | | 0 | | | |
| 15 | | | | 0 | SAA. | | |
| | | | | 0 | | | |
| 16 | | | | | **EOB @ 16'** | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 12'-14'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-16** | |
| **Inspector:** | SD/BM/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 750495.592 | |
| | | | | | | | Easting | 679215.1661 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 14 Depth | 8 | | | | **Start Date** | 11/3/2009 | | | N |
| Date | 11/3/09 | | | | **Start Time** | **8:54** | | | |
| Time | 8:54 | | | | **Finish Date** | 11/3/2009 | | | |
| | | | | | **Finish Time** | **8:56** | | See Site Plan | |
| | | | | | **Weather** | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-16 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-16 (6"-12") | | | 0 | | | |
| 1 | OS-SD-16 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | | | |
| | | | | 0 | Wet, black, ORGANIC sediment, some Sand, trace Gravel. | | |
| 3 | | | | 0 | | | |
| | | | | 0 | | | |
| 4 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SILT and Sand, trace angular Gravel, interbedded Clay. | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | | | |
| | | | | 0 | | | |
| 7 | | | | 0 | Wet, grey, coarse to medium SAND, trace Gravel (SM/SP). | SM/SP | |
| | | | | 0 | Wet, black, ORGANIC and coarse to fine SAND, little subrounded medium Gravel, plastic debris (SP). Petroleum like odor | SP | |
| 8 | | | | 0 | | | |
| | | | | 0 | Wet, grey, coarse to fine SAND, well rounded Gravel, some Silt, micaceous (SM). | SM | |
| 9 | | | | 0 | | | |
| | | | | 0 | | | |
| 10 | | | | 0 | | | |
| | | | | 0 | SAA. | | |
| 11 | | | | 0 | | | |
| | | | | 0 | | | |
| 12 | | | | 0 | | | |
| | | | | 0 | Wet, grey, coarse to fine SAND, some well rounded fine Gravel, some Silt (SM). | | |
| 13 | | | | 0 | | | |
| | | | | 0 | | | |
| 14 | | | | 0 | | | |
| | | | | 0 | Wet, grey, SAND and Silt, some Clay (SM/ML). | SM/ML | |
| 15 | | | | 0 | | | |
| | | | | 0 | | | |
| 16 | | | | 0 | | | |
| | | | | | SAA. | | |
| 17 | | | | | **EOB @ 17.2'.** | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 12'-16'.

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-17** | |
| **Inspector:** | SD/BM/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 679221.8577 | |
| | | | | | | | Easting | 750326.0502 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 10 Depth | 8 | | | | **Start Date** | 11/2/2009 | | | N |
| Date | 11/2/09 | | | | **Start Time** | **14:00** | | | |
| Time | 14:00 | | | | **Finish Date** | 11/2/2009 | | | |
| | | | | | **Finish Time** | **14:00** | | See Site Plan | |
| | | | | | **Weather** | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-19 (0"-6") | | | 33 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | FILL | |
| | OS-SD-19 (6"-12") | | | 0 | | | |
| 1 | OS-SD-19 (1'-2') | | | 0 | | | |
| | | | | 0 | | | |
| 2 | | | | 0 | | | |
| | | | | 0.0 | Wet, black, ORGANICs and SAND, some sub rounded Gravel. | | |
| 3 | | | | 0 | | | |
| | | | | 0.0 | | | |
| 4 | | | | 0 | | | |
| | | | | 0 | Wet, dark grey, SILT and Sand, trace angular Gravel, interbedded Clay. | SP/SC | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | Wet, grey, coarse to fine SAND, some Silt, little fine sub rounded Gravel, cobble (SM). | SM | |
| | | | | 0 | | | |
| 7 | | | | 0 | | | |
| | | | | 0 | | | |
| 8 | | | | 0 | | | |
| | OS-SD-17 (8.5-9') | | | 11.1 | Wet, grey, SILT and Clay (organic), some fine Sand (ML/CL). | ML/CL | |
| 9 | | | | 0 | | | |
| | | | | 0 | | | |
| 10 | | | | 0 | | | |
| | | | | 0 | Same as above (SAA). | | |
| 11 | | | | 5.8 | | | |
| | | | | 0.9 | | | |
| 12 | | | | 0 | | | |
| | | | | | **EOB @ 12.5'.** | | |
| 13 | | | | | | | |
| | | | | | | | |
| 14 | | | | | | | |
| | | | | | | | |
| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ 8'-10.5'

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-18** | |
| **Inspector:** | SD/BM/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 750031.47 | |
| | | | | | | | Easting | 679173.86 | |
| SURFACE WATER OBSERVATIONS | | | **Start Date** | 11/2/2009 | | | **Location Plan** | | |
| Water 10 Depth | 6 | | **Start Time** | **12:23** | | | N | | |
| Date | 11/2/09 | | **Finish Date** | 11/2/2009 | | | See Site Plan | | |
| Time | 12:23 | | **Finish Time** | **12:26** | | | | | |
| | | | **Weather** | | | | | | |

| **Sample Depth (ft)** | **Sample I.D.** | **SPT** | **In. Rec. Per 24 in.** | **PID (ppm)** | **FIELD IDENTIFICATION OF MATERIAL** | **STRATA** | **COMMENTS** |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| **0** | **OS-SD-18 (0"-6")** | | | **0** | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | **FILL** | |
| | **OS-SD-18 (6"-12")** | | | **1.1** | | | |
| **1** | **OS-SD-18 (1'-2')** | | | **15.3** | Moist, grey, ORGANIC and CLAY with high plasticity. | | |
| | | | | **20.9** | | | |
| **2** | | | | **60.7** | Moist, low plasticity, grey, organic CLAY (OL). | **OL** | |
| | | | | **31.6** | | | |
| **3** | | | | **18.6** | | | |
| | | | | **18.6** | Petroleum odor | | |
| **4** | | | | **3.6** | Same as above (SAA). | | |
| | | | | **3.6** | | | |
| **5** | | | | **0** | Wet, grey, coarse to fine SAND, brick, some Silt (SM). | **SM** | |
| | | | | **0** | | | |
| **6** | | | | **0** | Wet, grey, SAND and Silt, some Clay in the bottom (SM/ML). | **SM/ML** | |
| | | | | **0** | | | |
| **7** | | | | **0** | | | |
| | | | | **0** | | | |
| **8** | | | | **0** | SAA. | | |
| | | | | **0** | | | |
| **9** | | | | **0** | | | |
| | | | | **0** | | | |
| **10** | **OS-SD-18 (10-10.9')** | | | **0** | | | |
| | | | | **0** | | | |
| **11** | | | | | **EOB @ 10.9'** | | |
| | | | | | | | |
| **12** | | | | | | | |
| | | | | | | | |
| **13** | | | | | | | |
| | | | | | | | |
| **14** | | | | | | | |
| | | | | | | | |
| **15** | | | | | | | |
| | | | | | | | |
| **16** | | | | | | | |
| | | | | | | | |
| **17** | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **6'-9'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Contractor:** | OSI | | **PARSONS** | | | | **BORING/** | Sheet 1 of 1 | |
| **Driller:** | Steve G. | | **DRILLING/VIBRACORE RECORD** | | | | **WELL NO.** | **OS-SD-19** | |
| **Inspector:** | SD/BM/JS | | **PROJECT NAME:** | Pelham Sediment - Off Site investigation | | | **Location Description:** | | |
| **Rig Type:** | Vibracore | | **PROJECT NUMBER** | 445436 | | | Northing | 749828.305 | |
| | | | | | | | Easting | 679099.747 | |
| SURFACE WATER OBSERVATIONS | | | | | | | **Location Plan** | | |
| Water 17 Depth | 8 | | | | **Start Date** | 11/2/2009 | | | |
| Date | 11/2/09 | | | | **Start Time** | 10:05 | | | |
| Time | 10:05 | | | | **Finish Date** | 11/2/2009 | | | |
| | | | | | **Finish Time** | 11:12 | | See Site Plan | |
| | | | | | **Weather** | | | | |

| Sample Depth (ft) | Sample I.D. | SPT | In. Rec. Per 24 in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | STRATA | COMMENTS |
|---|---|---|---|---|---|---|---|
| | | | | | Depths are measured from mud/water interface. | | |
| 0 | OS-SD-19 (0"-6") | | | 0 | Wet, black, decaying organic matter, some Silt and Sand, trace leaves and trash. | | |
| | OS-SD-19 (6"-12") | | | 0 | | | |
| 1 | OS-SD-19 (1'-2') | | | 0 | | SM/SP | |
| | | | | 0 | | | |
| 2 | | | | 0 | PEAT (PT). | PT | |
| | | | | 0 | Wet, high plasticity, black, CLAY and Silt, trace fine Sand (OH). | OH | |
| 3 | | | | 0 | Wet, grey, coarse to medium SAND, some sub rounded Gravel, bricks (SM/SP). | SM/SP | |
| | | | | 0 | | | |
| 4 | | | | 0 | Wet, grey, coarse to medium SAND, some Silt, trace rounded Gravel, micaceous (SP). | | |
| | | | | 0 | | | |
| 5 | | | | 0 | | | |
| | | | | 0 | | | |
| 6 | | | | 0 | Same as above. | SP | |
| | | | | 0 | | | |
| 7 | OS-SD-19 (7'-8') | | | 0 | | | |
| | | | | 0 | | | |
| 8 | | | | 0 | **EOB @ 8'.** | | |
| | | | | | | | |
| 9 | | | | | | | |
| | | | | | | | |
| 10 | | | | | | | |
| | | | | | | | |
| 11 | | | | | | | |
| | | | | | | | |
| 12 | | | | | | | |
| | | | | | | | |
| 13 | | | | | | | |
| | | | | | | | |
| 14 | | | | | | | |
| | | | | | | | |
| 15 | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
AA= AUGERS
C = CORED

**COMMENTS:**

Geotech sample @ **6'-8'.**

STP - Standard Penetration Test WOH - Weight of Rods and Hammer. WOR - Weight of Rods.