

## **Appendix F**

### **Boring Logs**

Boring logs for the sample locations representing remaining-in-place soil at the Site collected via soil core are included in this appendix. Logs were not generated for grab samples collected during excavation activities, typically designated by “PB” or “SW” in the Location ID.

|   |   |  |
|---|---|--|
| <b>Project Name:</b> PPG Garfield Ave   | <b>Drilling Company:</b> -                      |  |
| <b>Project Number:</b> 60240739   | <b>Drilling Method:</b> Soft Dig/HSA/Mud Rotary | <b>Coordinates (NJSPNAD83) x:</b> 611548   |
| <b>Date Started Drilling:</b> 7/24/2006   | <b>Rig Type:</b> -                              | <b>Coordinates (NJSPNAD83) y:</b> 683014.2 |
| <b>Date Finished Drilling:</b> 10/9/2006  | <b>Core Size:</b> 12 inches                     | <b>Boring Total Depth:</b> 40 ft           |
| <b>Logged By:</b> M. Merdinger, M. Abdelaziz  | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> On Halladay, between Carteret and Forrest. In front of Halsted Bags building. |   | <b>Surface Elevation:</b> 12.4 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID                       |
|----------------------|------------------|-----------|------------------|---------|-------------|---|---------------------------------|
|                      |                  |           | dry              | ASPHALT |             | Asphalt   |                                 |
| 1                    |                  |           | dry              | FILL    |             | Very dark gray (7.5RN3) coarse to medium SAND, some coarse to medium gravel, trace silt, dry. Petroleum odor.<br>Soft Dig - No Recovery                         | MW20AA                          |
|                      |                  |           | dry              | NR      |             |   |                                 |
| 2                    |                  |           |                  |         |             |   |                                 |
| 3                    |                  |           |                  |         |             |   |                                 |
| 4                    |                  |           |                  |         |             |   |                                 |
| 5                    |                  |           | dry              | FILL    |             | Light brownish gray (2.5Y6/2) coarse to medium SAND, some silt, little medium to fine gravel, trace clay, dry.<br>Sewage like odor.                             | MW20AB                          |
| 6                    |                  |           | moist            | FILL    |             |   |                                 |
|                      |                  |           | moist            | FILL    |             |   |                                 |
| 7                    |                  |           |                  |         |             | Brownish gray (5YR4/1) coarse to medium SAND, little silt, brick and concrete, moist.<br>Grayish brown (5YR3/2) fine SAND, some clay, trace gravel, moist.      |                                 |
| 8                    |                  |           | moist            | FILL    |             |   |                                 |
| 9                    |                  |           |                  |         |             | Dusky brown (5YR2/2) fine SAND and GRAVEL, little silt, cobbles, moist.   | PPG-114-20BC(8.5-9.0)J43280-1   |
| 10                   |                  |           | wet              | FILL    |             |   |                                 |
| 11                   |                  |           | wet              | FILL    |             | Brownish gray (5YR4/1) GRAVEL, some coarse to fine sand, wet.<br>Grayish brown (5YR3/2) medium to fine SAND, some gravel, wet.                                  |                                 |
| 12                   |                  |           | moist            | FILL    |             |   |                                 |
| 13                   |                  |           | wet              | FILL    |             | Moderate brown (5YR4/4) CLAY, some silt.<br>Grayish brown (5YR3/2) GRAVEL, some coarse to medium sand, wood chips, wet.   | PPG-114-20BD(11.5-12.0)J43280-3 |
| 14                   |                  |           | wet              | FILL    |             |   |                                 |
| 15                   |                  |           |                  |         |             | NO RECOVERY   |                                 |
| 16                   |                  |           | moist            | PT      |             | PEAT  |                                 |
| 17                   |                  |           | wet              | SM      |             | Moderate brown (5YR3/4) fine to very fine SAND, some clay and silt.   | PPG-114-20BE(16.0-17.0)J43280-4 |
| 18                   |                  |           | wet              | SP-SM   |             |   |                                 |
| 19                   |                  |           | wet              | SM      |             | Reddish brown (5YR4/3) coarse SAND, little Silt, wet. Naphthalene odor.   |                                 |
| 20                   |                  |           | wet              | SM      |             |   |                                 |
| 21                   |                  |           | moist            | SM      |             | Brown (7.5YR4/2) fine SAND, some interbedded dark greenish gray (Gley16/1) Clay, little Gravel.<br>Dark reddish gray (5YR4/2) medium to fine SAND, little Silt. | MW20BF                          |
|                      |                  |           | moist            | SM      |             |   |                                 |

**Notes:**  
bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) MM/UND confirmed to be 1 ft thick 2) No CCPW (COPR or GGM) present in any interval of this boring.

|   |   |  |
|---|---|--|
| <b>Project Name:</b> PPG Garfield Ave   | <b>Drilling Company:</b> -                      |  |
| <b>Project Number:</b> 60240739   | <b>Drilling Method:</b> Soft Dig/HSA/Mud Rotary | <b>Coordinates (NJSPNAD83) x:</b> 611548   |
| <b>Date Started Drilling:</b> 7/24/2006   | <b>Rig Type:</b> -                              | <b>Coordinates (NJSPNAD83) y:</b> 683014.2 |
| <b>Date Finished Drilling:</b> 10/9/2006  | <b>Core Size:</b> 12 inches                     | <b>Boring Total Depth:</b> 40 ft           |
| <b>Logged By:</b> M. Merdinger, M. Abdelaziz  | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> On Halladay, between Carteret and Forrest. In front of Halsted Bags building. |   | <b>Surface Elevation:</b> 12.4 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content   | USCS  | Graphic Log | Surface Cover and Thickness:  | Sample ID                  |
|----------------------|------------------|-----------|--|-------|-------------|---|----------------------------|
| 23                   |                  |           | wet  | SP-SM |             | Reddish brown (5YR4/3) coarse to fine SAND, little Silt, wet. Slight naphthalene odor.              |                            |
| 24                   |                  |           | moist  | SP-SM |             | Weak red (2.5YR4/2) coarse to fine SAND, some angular Gravel, little Silt. Slight naphthalene odor. |                            |
| 25                   |                  |           |  |       |             |   |                            |
| 26                   |                  |           | wet  | SP-SM |             | Dark grayish brown (10YR4/2) coarse SAND, some Silt and fine Sand, trace Gravel and Clay, wet.      | MW20BG                     |
| 27                   |                  |           |  |       |             |   |                            |
| 28                   |                  |           | wet  | SP-SM |             | Dark reddish brown (5YR3/3) coarse to fine SAND, some Silt, wet. Slight odor.                       | 114-MW21BI(28-29)J43122-2R |
| 29                   |                  |           | Re-review of the soil descriptions indicates the USCS for this interval is SW-SM |       |             |   |                            |
| 30                   |                  |           | wet  | SP-SM |             | Weak red (10R4/3) coarse to fine SAND and SILT, little Gravel, wet. Slight odor.                    | MW20BH                     |
| 31                   |                  |           |  |       |             |   |                            |
| 32                   |                  |           | wet  | ML    |             | Weak red (10R4/3) SILT, wet. Naphthalene odor.  |                            |
| 33                   |                  |           |  |       |             |   |                            |
| 34                   |                  |           | wet  | SM    |             | Weak red (10R4/3) fine to very fine silty SAND, wet.  | MW20BI                     |
| 35                   |                  |           |  |       |             |   |                            |
| 36                   |                  |           | wet  | SM    |             | Dusky red (10R3/3) medium to fine SAND, little Silt, wet. Naphthalene odor.                         |                            |
| 37                   |                  |           |  |       |             |   |                            |
| 38                   |                  |           | moist  | ML    |             | Dusky red (10R 3/3) SILT, little very fine Sand, trace Tar like material. Strong naphthalene odor.  | MW20BJ                     |
| 39                   |                  |           |  |       |             |   |                            |
| 40                   |                  |           |  |       |             |   |                            |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) MM/UND confirmed to be 1 ft thick 2) No CCPW (COPR or GGM) present in any interval of this boring.

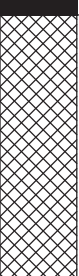



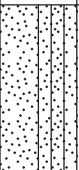

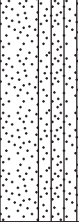
LOG OF SOIL BORING B107A

|  |                                  |                                    |   |                            |
|--|----------------------------------|------------------------------------|---|----------------------------|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |                                  | GROUND ELEVATION (FT. MSL)<br>13.6 | PROJECT NUMBER<br>020667601   |                            |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |                                  | FOREMAN<br>Craig Jablonski         | DATE STARTED<br>08/12/03  | DATE COMPLETED<br>08/12/03 |
| DRILLING EQUIPMENT<br>Geoprobe                               |                                  | COMPLETION DEPTH (FT BGS)<br>18.0  | ROCK DEPTH (FT)<br>Not Encountered  |                            |
| TYPE BIT<br>Direct Push Casing                               | SIZE AND TYPE CORE BARREL<br>n/a | NO. SAMPLES<br>5                   | DIST.<br>5  | UNDIST.<br>0               |
| CASING<br>2-inch diameter                                    | WEIGHT<br>N/A                    | DROP<br>n/a                        | WATER DEPTH<br>N/A  | CORE<br>0                  |
| CASING HAMMER  | WEIGHT<br>N/A                    | DROP<br>n/a                        | BORING LOCATION<br>Eastern portion of site, southeast of Gas Holder 1B (AOC1) |                            |
| SAMPLER<br>2" Diameter, 4' long w/acetate liner              | WEIGHT<br>N/A                    | DROP<br>n/a                        | INSPECTOR<br>John Karon   |                            |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |       |               |              | REMARKS   |
|--|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|-------|---------------|--------------|---|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Time           |       |               |              |   |
|  |                                      |             |         |                |                   |       |                       | Ambient<br>Air | Time  | Head<br>Space | Time<br>Date |   |
| 0.0' - 8.5' Dark Brown (7.5YR 3/4) FILL: silty fine to medium sand, ash material (AM), and brick pieces, firm, moist | 0                                    |             | 1       | 3.2            | N/A               | 13:00 | 0.0                   | 0.0            | 13:00 | n/a           | n/a          |   |
|  | 1                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 2                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 3                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 4                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 5                                    |             | 2       | 3.0            | N/A               | 13:05 | 0.0                   | 0.0            | 13:05 | n/a           | n/a          | Wet at 5.0'   |
|  | 6                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 7                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 8                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 9                                    |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
| 8.5' - 10.0' FILL: brown (7.5YR 4/4) silty fine SAND, firm, wet  | 10                                   |             | 3       | 3.3            | N/A               | 13:15 | 0.0                   | 0.0            | 13:15 | n/a           | n/a          |   |
|  | 11                                   |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
|  | 12                                   |             |         |                |                   |       | 0.0                   |                |       |               |              |   |
| 10.0' - 15.5' FILL: dark Brown (7.5YR 3/4) silty fine sand with AM, firm, moist                                      | 13                                   |             |         |                |                   |       | 35                    |                |       |               |              |   |
|  | 14                                   |             |         |                |                   |       | 45                    |                |       |               |              |   |
|  | 15                                   |             |         |                |                   |       | 32                    |                |       |               |              | 10.5' - 11.0' Sample for VOC, SVOC, TAL Metals, PCBs, Cyanide and Cr <sup>+6</sup> at 14:10 |



|  |  |  |
|--|--|--|
| <b>Project Name:</b> PPG Soil RIWP                       | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 6015-4801                         | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611918.612 |
| <b>Date Started Drilling:</b> 4/14/2011                  | <b>Rig Type:</b> Airknife/Geoprobe         | <b>Coordinates (NJSPNAD83) y:</b> 683362.336 |
| <b>Date Finished Drilling:</b> 4/14/2011                 | <b>Core Size:</b> 12 in                    | <b>Boring Total Depth:</b> 25 ft             |
| <b>Logged By:</b> B. Daniels, M. Merdinger               | <b>Project Manager:</b> Robert Cataldo     | <b>Depth to Water:</b> 0.3                   |
| <b>Physical Location:</b> Corner of Halladay and Forrest |  | <b>Surface Elevation:</b> 13.8 ft NAVD88     |




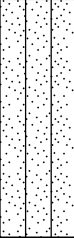
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:  | Sample ID          |             |
|----------------------|------------------|-----------|------------------|--------------|---|---|--------------------|-------------|
| 1                    | 5                | 0         | wet              | ASPHALT FILL |    | Black Asphalt<br>Very Dark Gray (10YR 3/1) SILTY SAND, little fine to medium Gravel and Fill Material (brick, cloth), trace COPR (5%), loose, wet. Coal Tar odor. | EF-B08-0.5         |             |
| 2                    |                  | 0         |                  |              |   | <p><b>Test Pit EF-08-TP was conducted to 5' bgs at this location and no CCPW was observed.</b></p>  | EF-B08-2.0         |             |
| 3                    |                  | 0         |                  |              |   |   | EF-B08-2.5         |             |
| 4                    |                  | 0         |                  |              |   |   |                    | EF-B08-4.0  |
| 5                    |                  | 2.4       | 0.2              |              | CONCRETE  |    | Weathered Concrete |             |
| 6                    | 0.3              |           | wet              | FILL         |    | Dark Gray (10YR 4/1) SILT, trace very fine Sand, firm, wet. No odor.  | EF-B08-6.0         |             |
| 7                    |                  |           | moist            | FILL         |    | Reddish Brown (5YR 4/3) medium angular GRAVEL (Mudstone) and little medium Sand and Silt, dense, moist. No odor.  | EF-B08-7.0         |             |
| 8                    |                  |           |                  |              | NR  |   | No Recovery        |             |
| 10                   | 3                | 0.2       | wet              | SP-SM        |  | Reddish Brown (5YR 4/3) fine SAND and SILT, trace fine angular Gravel, wet, loose. No odor.   |                    |             |
| 11                   |                  | 0.3       |                  |              |   |   |                    |             |
| 12                   |                  | 0.2       |                  |              |   |   |                    | EF-B08-12.0 |
| 13                   |                  |           |                  | NR           |   | No Recovery   |                    |             |
| 15                   | 2.5              | 0.1       | wet              | SW-SM        |  | Dark Reddish Brown (5YR 3/2) to Black fine to coarse SAND and SILT, loose, wet. No odor.  |                    |             |
| 16                   |                  | 0.1       |                  |              |   |   |                    |             |
| 17                   |                  |           |                  |              | NR  |   | No Recovery        | EF-B08-17.0 |
| 18                   |                  |           |                  |              |   |   |                    |             |
| 19                   |                  |           |                  |              |   |   |                    |             |
| 20                   | 4                | 0         | wet              | SP-SM        |  | Reddish Brown (5YR 4/3) fine SAND and SILT, wet, loose. No odor.  |                    |             |
| 21                   |                  | 0         |                  |              |   |   |                    |             |
| 22                   |                  | 0         |                  |              |   |   |                    | EF-B08-22.0 |
| 23                   |                  | 0         |                  |              |   |   |                    |             |
| 24                   |                  |           |                  | NR           |   | No Recovery   |                    |             |
| 25                   |                  |           |                  | NULL         |   | End of boring at 25 ft.   |                    |             |

**Notes:**  
 bgs - below surface grade    COPR - chromate ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** COPR (5%) identified from 0.3-5.0 ft bgs.

PPG - 2012-08 RA PPG LOGS\_A.GDT - 10/21/16 11:41

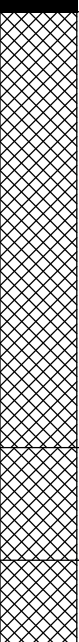
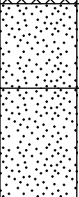
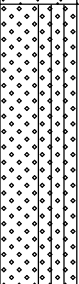

|   |   |  |
|---|---|--|
| <b>Project Name:</b> PPG Garfield Ave                             | <b>Drilling Company:</b> Badger         |  |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR                     | <b>Drilling Method:</b>                 | <b>Coordinates (NJSPNAD83) x:</b> 611919.1 |
| <b>Date Started Drilling:</b> 11/15/2017                          | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683360.9 |
| <b>Date Finished Drilling:</b> 11/15/2017                         | <b>Core Size:</b>                       | <b>Boring Total Depth:</b> 5 ft            |
| <b>Logged By:</b> R. Kantor                                       | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b>                     |
| <b>Physical Location:</b> SE Corner of Halladay St and Forrest St |   | <b>Surface Elevation:</b> 13.8 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log   | Surface Cover and Thickness:  | Sample ID |
|----------------------|------------------|-----------|------------------|---------|---|---|-----------|
| 0 - 1                | 5                |           |                  | Asphalt |  | Asphalt   |           |
| 1 - 1.5              |                  |           |                  | FILL    |  | Black ash, little fill debris. No CCPW  |           |
| 1.5 - 2              |                  |           |                  | FILL    |  | Tan-brown silt, little fine sand and cobbles, trace fill debris. No CCPW observed |           |
| 2 - 5                |                  |           |                  | SM      |  | Tan-brown silt, little fine sand. No CCPW obsvded                                 |           |
| 5                    |                  |           |                  |         |   | End of test pit   |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) No CCPW (COPR/GGM) encountered in any interval of the test pits

|  |   |  |
|--|---|--|
| <b>Project Name:</b> PPG Soil RIWP         | <b>Drilling Company:</b> SGS              |  |
| <b>Project Number:</b> 6015-4801           | <b>Drilling Method:</b> Airknife/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611820.649 |
| <b>Date Started Drilling:</b> 4/14/2011    | <b>Rig Type:</b> Airknife/Geoprobe        | <b>Coordinates (NJSPNAD83) y:</b> 683264.211 |
| <b>Date Finished Drilling:</b> 4/15/2011   | <b>Core Size:</b> 2                       | <b>Boring Total Depth:</b> 25 ft             |
| <b>Logged By:</b> A. Salazar, M. Merdinger | <b>Project Manager:</b> Robert Cataldo    | <b>Depth to Water:</b> 5                     |
| <b>Physical Location:</b>                  |   | <b>Surface Elevation:</b> 14.0 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm)  | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:  | Sample ID  |              |
|----------------------|------------------|------------|------------------|--------------|---|---|--|--------------|
| 1                    | 5                | 0          | moist            | Fill<br>Fill |   | Black Asphalt<br>Brown (10YR 4/3) SANDY SILT, little Clay, trace fine Gravel and Fill Material, moist, loose. Strong coal tar and naphthalene odor. | EF-B09_0.5   |              |
| 2                    |                  | 856        |                  |              |   |   | EF-B09_2.0   |              |
| 3                    |                  | 276        | EF-B09_2.5       |              |   |   |  |              |
| 4                    |                  | 0          | EF-B09_4.0       |              |   |   |  |              |
| 5                    |                  | 113        | 3                |              |   |   |  | No Recovery  |
| 6                    | 506              | EF-B09_7.5 |                  |              |   |   |  |              |
| 7                    | 276              | EF-B09_7.5 |                  |              |   |   |  |              |
| 8                    |                  |            |                  | Fill         |   |   |  |              |
| 9                    |                  |            |                  |              |   |   |  |              |
| 10                   |                  | 233        | moist            | Fill         |  | Same as above, with strong coal tar and naphthalene odors.  | EF-B09_10.0  |              |
| 11                   |                  | 1330       |                  |              |   |   |  |              |
| 12                   | 3                | 149        | wet              | SP           |   |   | Weak Red (10R 4/4) fine SAND, trace Silt, dense, wet. Strong coal tar and naphthalene odors. | EF-B09_12.5  |
| 13                   |                  |            |                  |              |   |   |  | No Recovery  |
| 14                   |                  |            |                  |              |   |   |  |              |
| 15                   | 5                | 339        | wet              | SW-SM        |  | Reddish Brown (2.5YR 4/3) fine to coarse SANDY SILT, trace fine angular Gravel, dense, wet. Coal tar and naphthalene odors.                         |  |              |
| 16                   |                  | 289        |                  |              |   |   | EF-B09_17.5  |              |
| 17                   |                  | 327        |                  |              |   |   |  |              |
| 18                   |                  | 126        |                  |              |   |   |  |              |
| 19                   |                  | 5.4        |                  |              |   |   |  |              |
| 20                   |                  |            |                  | SW           |  | Weak Red (10YR 5/3) fine to coarse SAND, trace Silt, loose, wet. Slight coal tar and naphthalene odors.   | EF-B09_21.0  |              |
| 21                   | 1.5              | 15.6       |                  |              |   |   | No Recovery  | EF-B09_21.0X |
| 22                   |                  |            |                  |              |   |   |  |              |
| 23                   |                  |            |                  |              |   |   |  |              |
| 24                   |                  |            |                  |              |   |   |  |              |
| 25                   |                  |            |                  |              |   | End of boring at 25 ft.   |  |              |

**Notes:**  
 bgs - below surface grade COPR - chromate ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified at this location.

PPG - 2012-09 RA PPG LOGS\_A.GDT - 10/21/16 11:27



|  |   |  |
|--|---|--|
| <b>Project Name:</b> PPG Soil RIWP           | <b>Drilling Company:</b> SGS              |  |
| <b>Project Number:</b> 6015-4801             | <b>Drilling Method:</b> Airknife/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611660.785 |
| <b>Date Started Drilling:</b> 4/14/2011      | <b>Rig Type:</b> Airknife/Geoprobe        | <b>Coordinates (NJSPNAD83) y:</b> 683123.169 |
| <b>Date Finished Drilling:</b> 4/15/2011     | <b>Core Size:</b> 2                       | <b>Boring Total Depth:</b> 25 ft             |
| <b>Logged By:</b> A. Salazar, M. Merdinger   | <b>Project Manager:</b> Robert Cataldo    | <b>Depth to Water:</b> 10.3/20               |
| <b>Physical Location:</b> On Halladay Street |   | <b>Surface Elevation:</b> 13.9 ft NAVD88     |



| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID   |      |   |             |
|----------------------|------------------|-----------|------------------|------|-------------|---|-------------|------|---|-------------|
| 0 - 1                | 5                | 0         | moist            | Fill |             | Black Asphalt   |             |      |   |             |
| 1 - 2                |                  |           |                  |      |             | Concrete  |             |      |   |             |
| 2 - 3                |                  |           |                  |      |             | Brown (7.5YR 4/3) SILT and fine SAND, trace fine to medium Gravel, Ash and Fill Material, moist, firm. Slight coal tar odor.  | EF-B10_1.0  |      |   |             |
| 3 - 4                |                  |           |                  |      |             |   | EF-B10_2.5  |      |   |             |
| 4 - 5                |                  |           |                  |      |             |   | EF-B10_4.0  |      |   |             |
| 5 - 6                | 1.4              | 246       |                  | Fill |             | No Recovery   |             |      |   |             |
| 6 - 7                |                  | 527       |                  |      |             |   | EF-B10_6.0  |      |   |             |
| 7 - 8                |                  |           |                  |      |             |   |             |      |   |             |
| 8 - 10               | 1.5              | 194       | wet              | Fill |             | Gray (5YR 5/1) ASH and CINDERS, little dark brown fine Sand and Silt, wet, loose. Coal tar and naphthalene odors.   | EF-B10_10.0 |      |   |             |
| 10 - 11              |                  |           |                  |      |             |   | 51.7        | Fill | No Recovery   |             |
| 11 - 12              |                  |           |                  |      |             |   |             |      |   |             |
| 12 - 15              | 1.8              | 10.7      | wet              | Fill |             | Same as above, with naphthalene and fuel oil odors.   | EF-B10_15.0 |      |   |             |
| 15 - 16              |                  |           |                  |      |             |   | 18.2        | OH   | Black-stained ORGANIC SILT, trace roots, semi-cohesive, moist, soft. Sulfur odor. | EF-B10_16.5 |
| 16 - 17              |                  |           |                  |      |             |   |             | ML   |   |             |
| 17 - 18              |                  |           |                  | ML   |             | No Recovery   |             |      |   |             |
| 18 - 20              | 1.8              | 892       | wet              | SW   |             | Dark Reddish Gray (10R 4/1) fine to coarse SAND, little to trace Silt, trace fine rounded Gravel, saturated in Red-Brown semi-viscous Oil, wet, loose. Strong coal tar, naphthalene and fuel oil odors. |             |      |   |             |
| 20 - 21              |                  |           |                  |      |             |   | 1023        | SW   | No Recovery   |             |
| 21 - 22              |                  |           |                  |      |             |   |             |      |   |             |
| 22 - 25              |                  |           |                  |      |             |   |             |      |   |             |
|                      |                  |           |                  |      |             | End of boring at 25 ft.   |             |      |   |             |

**Notes:**  
 bgs - below surface grade COPR - chromate ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** No COPR/GGM identified at this location.

PPG - 2012-08 RA PPG LOGS\_A.GDT - 10/21/16 11:27

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|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b>                               | <b>Drilling Method:</b> Soft Dig           | <b>Coordinates (NJSPNAD83) x:</b> 611749.494 |
| <b>Date Started Drilling:</b> 9/18/2012 11:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683193.96  |
| <b>Date Finished Drilling:</b> 9/18/2012 11:20:00 AM | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 1 ft              |
| <b>Logged By:</b> Ben Daniels                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                    |
| <b>Physical Location:</b>                            |  | <b>Surface Elevation:</b> 14.2 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log   | Surface Cover and Thickness:   | Sample ID       |
|----------------------|------------------|-----------|------------------|---------|---|--|-----------------|
|                      |                  |           |                  | ASPHALT |  | ASPHALT  |                 |
| 1                    |                  | 0.0       | dry              | FILL    |  | silty SAND, some fine to coarse gravel little fill material, (7.5YR 4/2) brown, dry, no odor, angular, (Brick, metal, glass, coal, debris) | EF-B104-0.3-0.8 |
| 1                    |                  |           |                  |         |   |  |                 |

**Notes:**

bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:


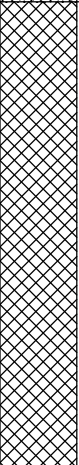
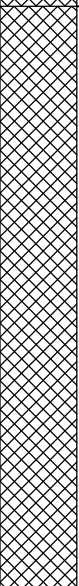
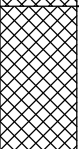
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|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> Soft Dig/Geoprobe  | <b>Coordinates (NJSPNAD83) x:</b> 611799.212 |
| <b>Date Started Drilling:</b> 9/18/2012 9:40:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683239.795 |
| <b>Date Finished Drilling:</b> 9/18/2012 10:15:00 AM | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 15 ft             |
| <b>Logged By:</b> Ben Daniels                        | <b>Project Manager:</b> Chris Martell      | <b>Depth to Water:</b> NA                    |
| <b>Physical Location:</b>                            |  | <b>Surface Elevation:</b> 14.1 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS   | Graphic Log | Surface Cover and Thickness:  | Sample ID   |                   |
|----------------------|------------------|-----------|------------------|--|-------------|---|---|-------------------|
| 1-5                  | 5                | 0.0       | dry              | ASPHALT  |             | ASPHALT   |   |                   |
|                      |                  | 1.8       | dry              | FILL   |             |   | fine to coarse SAND, and fine to medium gravel, (7.5YR 4/2) brown, dry, no odor, angular  |                   |
|                      |                  |           |                  |  | FILL        |   | silty SAND, some fine to coarse gravel little fill material, (7.5YR 3/2) dark brown, dry, no odor, subangular, (Coal, slag)     |                   |
|                      |                  | 0.6       | dry              | FILL   |             | fine to coarse SAND, some fine to coarse gravel and fill material, (10YR 4/4) dark yellowish brown, dry, no odor, angular, (Coal, slag)                         |   |                   |
|                      |                  | 0.0       | moist            | SM   |             | fine SAND, some silt little fine to medium gravel, (10YR 3/3) dark brown, moist, no odor, subangular  |   |                   |
|                      |                  |           | SM               | fine silty SAND, little fine to medium gravel trace medium to coarse sand, (7.5YR 5/4) brown, moist, no odor, subangular |             |   |   |                   |
| 6-8                  | 3.1              | 0.0       | moist            | GM   |             | SILT, some fine to medium gravel and fine sand, (7.5YR 4/4) brown, soft, moist, no odor, angular  |   |                   |
|                      |                  | 0.0       | moist            | ML   |             |   | SILT, trace fine gravel, (7.5YR 3/2) dark brown, medium soft, moist to wet, no odor, subrounded, Wet at 6.4.                    |                   |
|                      |                  | 692.0     | wet              | ML   |             | clayey SILT, (2.5Y 5/2) grayish brown, medium soft, wet, moderate naphthalene odor  |   |                   |
|                      |                  |           |                  |  | NR          | NO RECOVERY   |   |                   |
| 10-14                | 3.2              | 1352.0    | wet              | CL   |             | silty CLAY, (2.5Y 5/2) grayish brown, medium stiff, wet, moderate naphthalene odor, Slight sheen.   | EF-B105-10.0-10.5   |                   |
|                      |                  |           |                  |  |             |   |   | EF-B105-10.5-11.0 |
|                      |                  | 528.0     | wet              | SM   |             | fine silty SAND, little medium to coarse sand and fine to medium gravel, (5YR 5/3) reddish brown, dense, wet, moderate naphthalene odor, angular, Slight sheen. |   |                   |
|                      |                  | 85.1      | wet              | SM   |             |   | fine SAND, some silt little fine to medium gravel, (5YR 5/3) reddish brown, medium dense, wet, slight naphthalene odor, angular | EF-B105-12.5-13.0 |
|                      |                  |           | NR               | NO RECOVERY  |             |   |   |                   |
| 15                   |                  |           |                  |  |             |   |   |                   |

**Notes:**  
 bgs - below surface grade    COPR - chromate ore processing residue    UNdno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNdorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments: No COPR/GGM identified at this location.

















|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b>                              | <b>Drilling Method:</b> Soft Dig/Geoprobe  | <b>Coordinates (NJSPNAD83) x:</b> 611940.284409 |
| <b>Date Started Drilling:</b> 9/12/2012 8:25:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683346.15847  |
| <b>Date Finished Drilling:</b> 9/12/2012 8:45:00 AM | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 4.5 ft               |
| <b>Logged By:</b> Ben Daniels                       | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b>                           |  | <b>Surface Elevation:</b> 13.5 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log   | Surface Cover and Thickness:   | Sample ID       |
|----------------------|------------------|-----------|------------------|----------|---|--|-----------------|
|                      |                  |           |                  | CONCRETE |    | CONCRETE   |                 |
|                      |                  | 2.6       | dry              | FILL     |   | silty SAND, some fine to coarse gravel trace fill material, (7.5YR 3/2) dark brown, dry, no odor, angular, (Coal, debris, cinders) Trace organics. | EF-B107-0.5-1.0 |
| 1                    |                  |           |                  |          |   |  |                 |
| 2                    | 4.5              | 1.5       | dry              | FILL     |  | SILT, little fine sand trace coal, (7.5YR 4/2) brown, dry, no odor, Trace organics.  | EF-B107-2.0-2.5 |
| 3                    |                  |           |                  |          |   |  |                 |
| 4                    |                  | 0.3       | moist            | FILL     |  | SILT, (10YR 5/3) brown, moist, no odor   | EF-B107-4.0-4.5 |
|                      |                  |           |                  |          |   |  |                 |

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 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> Soft Dig/Geoprobe  | <b>Coordinates (NJSPNAD83) x:</b> 611962.472387 |
| <b>Date Started Drilling:</b> 9/10/2012 11:20:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683392.144438 |
| <b>Date Finished Drilling:</b> 9/10/2012 12:00:00 PM | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 24 ft                |
| <b>Logged By:</b> Ben Daniels                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b>                            |  | <b>Surface Elevation:</b> 14.0 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS          | Graphic Log   | Surface Cover and Thickness:  | Sample ID         |
|----------------------|------------------|-----------|------------------|---------------|---|---|-------------------|
| 1                    |                  |           | moist            | CONCRETE FILL |    | CONCRETE  | EF-B108-1.0-1.5   |
| 2                    |                  |           | moist            | FILL          |    | SILT, little fine to coarse sand and fill material, (7.5YR 4/2) brown, moist, no odor, (Brick, glass, coal) | EF-B108-2.0-2.5   |
| 3                    |                  |           | moist            | FILL          |    | SILT, trace fine to medium gravel, (7.5YR 5/6) strong brown, moist, no odor, angular                        |                   |
| 4                    |                  |           | moist            | FILL          |    | SILT, and fine to medium sand trace fine to medium gravel, (5YR 5/3) reddish brown, moist, no odor, angular |                   |
| 5                    |                  |           |                  |               |    |   |                   |
| 6                    |                  |           |                  |               |   |   |                   |
| 7                    |                  |           |                  |               |  |   |                   |
| 8                    |                  |           |                  |               |  |   |                   |
| 9                    |                  |           |                  |               |  |   |                   |
| 10                   |                  |           |                  |               |  |   |                   |
| 11                   |                  |           |                  |               |  |   |                   |
| 12                   |                  |           |                  |               |  |   |                   |
| 13                   |                  |           |                  |               |  |   |                   |
| 14                   |                  |           |                  |               |  |   |                   |
| 15                   |                  |           |                  |               |  |   |                   |
| 16                   |                  |           |                  |               |  |   |                   |
| 17                   |                  |           |                  |               |  |   |                   |
| 18                   |                  |           |                  |               |  |   |                   |
| 19                   |                  |           |                  |               |  |   |                   |
| 20                   |                  |           |                  |               |  |   |                   |
| 21                   |                  |           |                  |               |  |   | EF-B108-21.0-21.5 |
| 22                   |                  |           |                  |               |  |   |                   |
| 23                   |                  |           |                  |               |  |   |                   |
| 24                   |                  |           |                  |               |  |   |                   |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 12/11/16 00:12

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                    | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                          | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611566.044431 |
| <b>Date Started Drilling:</b> 12/10/2011                 | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682990.412766 |
| <b>Date Finished Drilling:</b> 12/10/2011                | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 20 ft                |
| <b>Logged By:</b> M. Merdinger                           | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b> Inside building - 1st transect |  | <b>Surface Elevation:</b> 13.6 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS       | Graphic Log | Surface Cover and Thickness:   | Sample ID |
|----------------------|------------------|-----------|------------------|------------|-------------|--|-----------|
| 1 - 2                | 0.4              | 0.0       | Dry              | CONCRETE   |             | Concrete, no staining.   | H1-0.3    |
|                      |                  |           | Dry              | FILL<br>NR |             | Black SILT, little fine to medium Sand, trace Coal fragments and slag, loose. No odor.<br>No Recovery                  |           |
| 5 - 6                | 0.9              | 0.0       | Dry              | FILL       |             | Brown (7.5YR 4/4) SILT and fine SAND, some black Ash and Cinders, little fine to medium Gravel, loose. No odor.        | H1-5.0    |
|                      |                  |           |                  | NR         |             | No Recovery  |           |
| 10 - 12              | 2                | 0.0       | Moist            | FILL       |             | Brown (7.5YR 4/4) SILT and fine SAND, some black Ash and Cinders, little fine to medium Gravel, medium dense. No odor. | H1-10.0   |
|                      |                  |           | Wet              | FILL       |             | Black CINDERS and SILT, some Ash, loose. No odor.  |           |
|                      |                  |           |                  | NR         |             | No Recovery  |           |
| 15 - 17              | 2.5              | 0.0       | Moist            | FILL       |             | Black and Brown (7.5YR 4/4) CINDERS and SILT, some Ash, medium dense. No odor.   | H1-15.0   |
|                      |                  |           | Moist            | PEAT       |             | Dark Brown (7.5YR 3/4) PEAT, high organic content, trace Silty Clay, soft. Strong sulfur odor.                         | H1-16.0   |
|                      |                  |           |                  | NR         |             | No Recovery  |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) MM/UND confirmed to be 1 ft thick 2) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                    | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                          | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611538.896539 |
| <b>Date Started Drilling:</b> 12/10/2011                 | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682970.188243 |
| <b>Date Finished Drilling:</b> 12/10/2011                | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 20 ft                |
| <b>Logged By:</b> M. Merdinger                           | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b> Inside building - 2nd transect |  | <b>Surface Elevation:</b> 13.4 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-----------|
| 0-1                  |                  |           | Dry              | CONCRETE |             | Concrete, no staining.  |           |
| 1-2                  |                  |           | Dry              | FILL     |             | Brown (7.5YR 5/3) ASH and CINDERS, loose. No odor.  | H2-0.6    |
| 2-3                  |                  |           | Dry              | FILL     |             | Brown (7.5YR 4/3) fine SAND and SILT, little medium Sand, trace fine angular Gravel, loose. No odor.<br>No Recovery   | H2-2.0    |
| 3-4                  |                  |           | Dry              | VOID     |             |   |           |
| 4-5                  |                  |           |                  |          |             |   |           |
| 5-6                  |                  |           | Moist            | FILL     |             | Brown (7.5YR 4/3) fine SAND and SILT, little Ash and Cinder, loose. No odor.  | H2-5.0    |
| 6-7                  |                  |           | Moist            | VOID     |             | No Recovery   |           |
| 7-8                  |                  |           |                  |          |             |   |           |
| 8-9                  |                  |           |                  |          |             |   |           |
| 9-10                 |                  |           |                  |          |             |   |           |
| 10-11                |                  |           | Wet              | FILL     |             | Brown (7.5YR 4/3) fine SAND and SILT, little Ash, Cinder, and fine angular to rounded Gravel, moist to wet at 10.8 ft, medium dense. No odor.<br>No Recovery                    | H2-10.0   |
| 11-12                |                  |           | Wet              | VOID     |             |   |           |
| 12-13                |                  |           |                  |          |             |   |           |
| 13-14                |                  |           |                  |          |             |   |           |
| 14-15                |                  |           |                  |          |             |   |           |
| 15-16                |                  |           | Wet              | FILL     |             | Black ASH, some Cinders, little Brown (7.5YR 4/3) fine Sand and Silt, loose. No odor.   | H2-15.0   |
| 16-17                |                  |           |                  |          |             |   | H2-16.0   |
| 17-18                |                  |           | Moist            | FILL     |             | Brown fine SAND and SILT, trace fine angular Gravel, medium dense. No odor.<br>Dark Brown (7.5YR 3/4) PEAT, high organic content, little Silty Clay, medium stiff. Sulfur odor. |           |
| 18-19                |                  |           | Moist            | PEAT     |             |   |           |
| 19-20                |                  |           | Moist            | VOID     |             | No Recovery   | H2-18.0   |
| 20                   |                  |           |                  | NULL     |             | End of boring at 20 ft.   |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                    | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                          | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611493.056623 |
| <b>Date Started Drilling:</b> 12/11/2011                 | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682917.980661 |
| <b>Date Finished Drilling:</b> 12/11/2011                | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 20 ft                |
| <b>Logged By:</b> M. Merdinger                           | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b> Inside building - 3rd transect |  | <b>Surface Elevation:</b> 13.8 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-----------|
|                      |                  |           | Dry              | CONCRETE |             | Concrete, no staining.  |           |
| 1                    |                  |           | Dry              | FILL     |             | Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor.                             | H3-0.5    |
| 2                    |                  |           |                  |          |             |   |           |
| 3                    |                  |           | Dry              | VOID     |             | No Recovery   |           |
| 4                    |                  |           |                  |          |             |   |           |
| 5                    |                  |           | Dry              | FILL     |             | Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor.                             | H3-5.0    |
| 6                    |                  |           |                  |          |             |   | H3-6.0    |
| 7                    |                  |           | Dry              | VOID     |             | No Recovery   |           |
| 8                    |                  |           |                  |          |             |   |           |
| 9                    |                  |           |                  |          |             |   |           |
| 10                   |                  |           | Moist            | FILL     |             | Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor. Water at 11 ft. No Recovery | H3-10.0   |
| 11                   |                  | Wet       | VOID             |          |             |   |           |
| 12                   |                  |           |                  |          |             |   |           |
| 13                   |                  |           |                  |          |             |   |           |
| 14                   |                  |           |                  |          |             |   |           |
| 15                   |                  |           | Wet              | PEAT     |             | Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, trace Peat, loose. No odor. No Recovery     |           |
| 16                   |                  | Wet       | VOID             |          |             |   |           |
| 17                   |                  |           |                  |          |             |   |           |
| 18                   |                  |           |                  |          |             |   |           |
| 19                   |                  |           |                  |          |             |   |           |
| 20                   |                  |           |                  | NULL     |             | End of boring at 20 ft.   |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:



|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                    | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                          | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611388.525101 |
| <b>Date Started Drilling:</b> 12/11/2011                 | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682829.094867 |
| <b>Date Finished Drilling:</b> 12/11/2011                | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 20 ft                |
| <b>Logged By:</b> M. Merdinger                           | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b> Inside building - 4th transect |  | <b>Surface Elevation:</b> 13.9 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID |
|----------------------|------------------|-----------|------------------|----------|-------------|--|-----------|
| 0-1                  |                  |           | Dry              | CONCRETE |             | Concrete, no staining.   |           |
| 1-2                  |                  |           | Dry              | FILL     |             | Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. | H4-0.5    |
| 2-3                  |                  |           | Dry              | VOID     |             | No Recovery  |           |
| 3-4                  |                  |           |                  |          |             |  |           |
| 4-5                  |                  |           |                  |          |             |  |           |
| 5-6                  |                  |           | Dry              | FILL     |             | Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. | H4-5.0    |
| 6-7                  |                  |           | Dry              | CONCRETE |             | Concrete, dry, no staining   |           |
| 7-8                  |                  |           | Moist            | FILL     |             | Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. | H4-7.0    |
| 8-9                  |                  |           | Moist            | VOID     |             | No Recovery  |           |
| 9-10                 |                  |           |                  |          |             |  |           |
| 10-11                |                  |           | Moist            | FILL     |             | Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. | H4-10.0   |
| 11-12                |                  |           | Wet              | VOID     |             | Water at 11 ft.<br>No Recovery   |           |
| 12-13                |                  |           |                  |          |             |  |           |
| 13-14                |                  |           |                  |          |             |  |           |
| 14-15                |                  |           |                  |          |             |  |           |
| 15-16                |                  |           | Wet              | FILL     |             | Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. | H4-15.0   |
| 16-17                |                  |           | Wet              | VOID     |             | No Recovery  |           |
| 17-18                |                  |           |                  |          |             |  |           |
| 18-19                |                  |           |                  |          |             |  |           |
| 19-20                |                  |           |                  |          |             |  |           |
| 20                   |                  |           |                  | NULL     |             | End of boring at 20 ft.  |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:


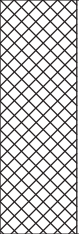
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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611431.488276 |
| <b>Date Started Drilling:</b> 2/26/2014 8:45:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682858.808253 |
| <b>Date Finished Drilling:</b> 2/26/2014 12:20:00 PM | <b>Core Size:</b> 2 in                     | <b>Boring Total Depth:</b> 20 ft                |
| <b>Logged By:</b> EW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                       |
| <b>Physical Location:</b> Halsted - Inside building  |  | <b>Surface Elevation:</b> 13.1 ft NAVD88        |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content    | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID   |              |
|----------------------|------------------|-----------|---------------------|----------|-------------|--|---|--------------|
| 0.3                  | 0.0              | 0.0       |                     | CONCRETE |             | CONCRETE, no staining.   | H5-CT   |              |
| 1                    | 5                | 0.0       | dry                 | FILL     |             | ASH, with ceramics, no cinders, (10YR 6/1) gray, non plastic, loose, dry, no odor, no staining.  | H5-CB<br>H5-0.3-0.8   |              |
| 2                    |                  | 0.0       | damp                | FILL     |             | fine to coarse sandy ASH, light gray, damp, mixed fill including glass, brick fragments and cinders, no odor.                                  | H5-2.0-2.5  |              |
| 3                    |                  | 0.0       |                     |          |             |  |   |              |
| 4                    | 5                | 0.0       |                     |          |             |  |   |              |
| 5                    |                  | 0.0       |                     |          |             |  |   |              |
| 6                    |                  | 0.0       | dry                 | FILL     |             | ASH, with ceramics, no cinders, (10YR 6/1) gray, non plastic, loose, dry, no odor, no staining.  |   |              |
| 7                    |                  | 0.0       | dry to slight moist | FILL     |             | fine to medium SAND, some silt and ceramics, (7.5YR 3/3) dark brown, non plastic, soft, dry to slightly moist, no odor, no staining.           | H5-6.0-6.5  |              |
| 8                    |                  | 0.0       | moist               | FILL     |             | fine to coarse sandy ASH, dark gray-black, 10YR 6/1, trace cinders with mixed fill, moist, very loose, no odor, dark grey staining.            | H5-8.0-8.5  |              |
| 9                    |                  | 0.0       |                     |          |             |  |   |              |
| 10                   | 5                | 0.0       | moist to wet        | FILL     |             | medium to coarse SAND, with fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist to wet, no odor, no staining.      | H5-10.0-10.5  |              |
| 11                   |                  | 0.0       | moist to wet        | FILL     |             | fine to medium silty SAND, brown, 7.5 YR 4/1, moist to wet, fine gravel, loose, non-plastic, no odor or staining.                              | H5-12.0-12.5  |              |
| 12                   |                  | 0.0       |                     |          |             |  |   |              |
| 13                   | 4.7              | 0.0       | moist to wet        | FILL     |             | fine to coarse gravelly SAND, dark gray, 7.5YR 4/1, trace silt, mixed fill including glass and fine debris, moist to wet, no odor or staining. | H5-16.0-16.5  |              |
| 14                   |                  | 0.0       |                     | PT       |             |  | fine silty PEAT (degraded vegetated material), dark brown, silty, firm, 80% organic fibers, 20% organic silt, slight sulfur odor. Soils consistent with UNDorg. |              |
| 15                   |                  | 0.0       | damp to moist       | PT       |             |  | fine organic SILT, dark gray, 10YR 6/1, 80% organic silt, firm, pliable to plastic, sulfur odor, no staining, damp to moist. Soils consistent with UNDno.       | H5-18.0-18.5 |
| 16                   | 4.7              | 0.0       |                     |          |             |  |   |              |
| 17                   |                  | 0.0       |                     |          |             |  |   |              |
| 18                   | 4.7              | 0.0       |                     |          |             |  |   |              |
| 19                   |                  | 0.0       |                     |          |             |  |   |              |
| 20                   |                  |           |                     |          |             |  | H5-20.0-20.5  |              |

**Notes:**  
bgs - below surface grade  
MM - meadow mat  
COPR - chromite ore processing residue  
GGM - green grey mud  
UNDno - non-organic undisturbed native deposits  
UNDorg - organic undisturbed native deposits  
MGP - manufactured gas plant  
CCPW - chromate chemical production waste

**Comments:** No COPR/GGM identified.

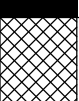
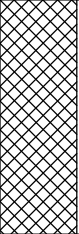

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|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Geoprobe                | <b>Coordinates (NJSPNAD83) x:</b> 611835.71 |
| <b>Date Started Drilling:</b> 3/17/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683324.52 |
| <b>Date Finished Drilling:</b> 3/17/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 12 ft            |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:   | Sample ID             |
|----------------------|------------------|-----------|------------------|--------------|---|--|-----------------------|
| 1                    |                  |           | slightly moist   | ASPHALT FILL |  | Asphalt  | HE0.75<br>HE .75-1.25 |
| 2                    |                  |           |                  |              |   | White and reddish brown (2.5YR 8/1 and 4/4) coarse to fine SAND, some med to fine gravel, trace silt/slag/CM/AM/asphalt (22"")/Reddish brown (5YR 4/3) fine SAND, little silt, trace med to fine gravel; trace olive brown (2.5Y 4/3) fine sand (COPR) (6"") | HE 2.5-3              |
| 3                    |                  |           |                  |              |   |  |                       |
| 4                    |                  |           |                  | FILL         |  | Brown, black, dark brown and reddish brown (7.5YR 4/2, 2.5/1, 3/2 and 2.5YR 4/4) SILT, trace fine sand   | HE 4-4.5<br>HE 5-5.5  |
| 5                    |                  |           |                  |              |   |  | HE6.0                 |
| 6                    |                  |           |                  |              |   |  |                       |
| 7                    |                  |           |                  |              |   |  |                       |
| 8                    |                  |           |                  | SILT         |   | Reddish brown and weak red (2.5YR 4/2 and 4/4) SILT, some clay   | HE8.0                 |
| 9                    |                  |           |                  |              |   |  |                       |
| 10                   |                  |           |                  |              |   |  |                       |
| 11                   |                  |           |                  |              |   |  | HE11.0                |
| 12                   |                  |           |                  | NULL         |   | End of Boring  |                       |

**Notes:**  
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 MM - meadow mat    GGM - green grey mud    UNDOrg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

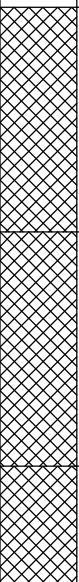
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| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Geoprobe                | <b>Coordinates (NJSPNAD83) x:</b> 611709.46 |
| <b>Date Started Drilling:</b> 3/17/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683202.5  |
| <b>Date Finished Drilling:</b> 3/17/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 12 ft            |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log  | Surface Cover and Thickness:   | Sample ID    |
|----------------------|------------------|-----------|------------------|--------------|--|--|--------------|
| 1                    |                  |           | slightly moist   | ASPHALT FILL |   | Asphalt<br>Brown, dark brown and black (7.5YR 4/3, 3/3, 2.5/1) coarse to fine SAND, little silt, little coarse to fine gravel, little brick, little crushed rock, little ash, little clinker, little coal (29"") | HH 0.3-0.8   |
| 2                    |                  |           |                  |              |  |  | HH 2-2.5     |
| 3                    |                  |           |                  |              |  |  |              |
| 4                    |                  |           | very moist       | FILL         |   | Reddish brown and ed (5YR 4/3 and 2.5YR 5/6) coarse to fine SAND, some silt, trace coarse to fine gravel, trace glass, trace shell   | HH 4-4.5     |
| 5                    |                  |           |                  |              |  |  | HH 6-6.5     |
| 6                    |                  |           |                  |              |  |  |              |
| 7                    |                  |           |                  |              |  |  |              |
| 8                    |                  |           | moist            | SILT         |  | Reddish brown and dark reddish gray (2.5YR 4/4 and 3/1) SILT, trace coarse to fine sand, medium to fine gravel, sheen, mottled, trace clay   | HH 8-8.5     |
| 9                    |                  |           |                  |              |  |  | HH10.0       |
| 10                   |                  |           |                  |              |  |  | HH 10.5-11.0 |
| 11                   |                  |           |                  |              |  |  |              |
| 12                   |                  |           |                  | NULL         |  | End of Boring  |              |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |   |   |
|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig                | <b>Coordinates (NJSPNAD83) x:</b> 611376.47 |
| <b>Date Started Drilling:</b> 3/18/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 682874.9  |
| <b>Date Finished Drilling:</b> 3/18/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 11.2 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS        | Graphic Log   | Surface Cover and Thickness:  | Sample ID   |              |
|----------------------|------------------|-----------|------------------|-------------|---|---|---|--------------|
| 1                    |                  |           |                  | CEMENT FILL |                   | Concrete (2")<br>Grayish brown (10 YR 5/2) coarse to fine SAND, little coarse-fine gravel, trace silt, trace crushed rock, dry (12.5")*Red and weak red (10R 4/6 and 2.5Y 4/2) clayey SILT, trace fine sand, trace coal.^ | HI 0.3-0.8  |              |
| 2                    |                  |           |                  |             |   |   | HI 2-2.5  |              |
| 3                    |                  |           |                  |             |   |   |   |              |
| 4                    |                  |           | dry to moist     | FILL        |   |   | Mottled reddish gray, black, and reddish brown (2.5YR 5/1, 5YR 2.5/1 and 4/4) coarse to fine SAND, some coarse to fine, gravel, trace silt (coal ash) (14") | HI 4-4.5     |
| 5                    |                  |           |                  |             |   |   |   | HI 5-5.5     |
| 6                    |                  |           |                  |             |   |   |   |              |
| 7                    |                  |           |                  |             |   |   |   | HI 7-7.5     |
| 8                    |                  |           | wet              | FILL        |   |   | Dusky red (2.5YR 3/2) coarse to fine SAND, trace coarse to fine gravel, trace silt, trace vegetation (6")   | HI 9-9.5     |
| 9                    |                  |           |                  |             |   |   |   |              |
| 10                   |                  |           | wet              | CLAY        |   |   | Very dark grayish brown (10YR 3/2) clayey SILT, wet (27")*Dark brown (2.5YR 3/2) coarse to fine SAND, little silt (6")                                      | HI 10.1-10.5 |
| 11                   |                  |           |                  |             |   |   |   |              |
| 12                   |                  |           | wet              | SAND        | Red and dusky red (10R 5/6 and 3/4) coarse to fine SAND, little coarse to fine gravel, little silt  | HI 14-14.5  |   |              |
| 13                   |                  |           |                  |             |   | HI 14.7-15.2  |   |              |
| 14                   |                  |           |                  |             |   |   |   |              |
| 15                   |                  |           | wet              | SAND        | Dark reddish brown (5YR 3/4) coarse to fine SAND, trace coarse to fine gravel (rounded), trace silt | HI 17-17.5  |   |              |
| 16                   |                  |           |                  |             |   |   |   |              |
| 17                   |                  |           |                  |             |   |   |   |              |
| 18                   |                  |           |                  |             |   |   |   |              |
| 19                   |                  |           |                  |             |   |   |   |              |
| 20                   |                  |           |                  | NULL        | End of Boring   |   |   |              |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDOrg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:


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|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig/Geoprobe       | <b>Coordinates (NJSPNAD83) x:</b> 611513.59 |
| <b>Date Started Drilling:</b> 3/18/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683006.33 |
| <b>Date Finished Drilling:</b> 3/18/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 11.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------------|
| 1                    |                  |           |                  | ASPHALT |             | Asphalt/Crushed gravel  |                        |
| 1-2                  | moist            |           |                  | FILL    |             | Pale brown (10YR 6/3) coarse to fine SAND, some coarse to fine gravel   | HK1.25<br>HK 1.25-1.75 |
| 2-3                  |                  |           |                  | NR      |             | No Recovery   |                        |
| 3-4                  | moist            |           |                  | FILL    |             | Dark grayish brown (10YR 4/2) medium to fine SAND   | HK 3-3.5               |
| 4-5                  |                  |           |                  | NR      |             | No Recovery   |                        |
| 5-6                  | wet              |           |                  | SAND    |             | Olive brown (2.5Y 4/3) coarse to fine SAND, little silt (15"")/Black (2.5Y 2.5/1) coarse to fine GRAVEL, little coarse to fine sand, little silt, little shell fragments (13"") | HK 5-5.5               |
| 6-7                  |                  |           |                  |         |             |   | HK 7-7.3               |
| 7-9                  |                  |           |                  |         |             |   |                        |
| 9-10                 | wet              |           |                  | UNKNOWN |             | Black and light gray (2.5Y 2.5/1 and 7/1) silty CLAY, trace coarse to fine sand (6"")/Light olive brown (2.5Y 5/3) fine SAND, with clay laminations (6"")                       | HK 9-9.5               |
| 10-13                |                  |           |                  |         |             |   |                        |
| 13-14                | wet              |           |                  | CLAY    |             | Very dark gray (2.5Y 3/1) silty CLAY (3"")/Black (2.5Y 2.5/1) SILT (6"")  | HK 13-13.5             |
| 14-17                |                  |           |                  |         |             |   |                        |
| 17-18                |                  |           |                  | SILT    |             | Dark reddish gray and reddish brown( 5YR 4/2 and 4/4) clayey SILT (7"")/Black (5YR 2.5/1) Peat (meadow mat) (3"")   | HK 17-17.5             |
| 18-21                |                  |           |                  |         |             |   |                        |
| 21                   |                  |           |                  | NULL    |             | End of Boring   |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDOrg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:




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|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig                | <b>Coordinates (NJSPNAD83) x:</b> 611834.24 |
| <b>Date Started Drilling:</b> 3/18/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683314.08 |
| <b>Date Finished Drilling:</b> 3/18/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 1.7 ft           |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs)  | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:  | Sample ID  |
|---|------------------|-----------|------------------|--------------|---|---|------------|
| 1   |                  |           | dry              | ASPHALT FILL |  | Asphalt<br>Crushed gravel (11"")/Black (5YR 2.5/1) coarse to fine SAND, some coarse to fine gravel (50% COPR) (6"") | HL 1.1-1.6 |
|   |                  |           |                  | NULL         |   | End of Boring   |            |
| <p>Test pit HL-TP was advanced to 2' bgs at this location and no CCPW was observed.</p> |                  |           |                  |              |   |   |            |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|   |   |  |
|---|---|--|
| <b>Project Name:</b> PPG Garfield Ave         | <b>Drilling Company:</b> Badger         |  |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR | <b>Drilling Method:</b>                 | <b>Coordinates (NJSPNAD83) x:</b> 611834.2 |
| <b>Date Started Drilling:</b> 11/14/2017      | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683313.8 |
| <b>Date Finished Drilling:</b> 11/14/2017     | <b>Core Size:</b>                       | <b>Boring Total Depth:</b> 2 ft            |
| <b>Logged By:</b> R. Kantor                   | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b>                     |
| <b>Physical Location:</b> Halladay St         |   | <b>Surface Elevation:</b> 13.8 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log   | Surface Cover and Thickness:  | Sample ID |
|----------------------|------------------|-----------|------------------|---------|---|---|-----------|
| 1                    | 2                |           |                  | Asphalt |  | Asphalt   |           |
| 1                    |                  |           |                  | FILL    |  | Cemented ash, cinders, little coarse angular gravel and cobbles, trace fill debris                          |           |
| 2                    |                  |           |                  | SM      |  | Reddish-brown fine to medium sand, some silt. No CCPW or ash observed in red sand layers<br>End of test pit |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) No CCPW (COPR/GGM) encountered in any interval of the test pits






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|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig                | <b>Coordinates (NJSPNAD83) x:</b> 611843.06 |
| <b>Date Started Drilling:</b> 3/18/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683307.44 |
| <b>Date Finished Drilling:</b> 3/18/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 1.5 ft           |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID  |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------|
| 1                    |                  |           |                  | ASPHALT |             | Asphalt, Crushed Gravel   |            |
|                      |                  |           | moist            | FILL    |             | Brown (10YR 4/3) coarse to fine SAND, medium to fine gravel, trace wood | HM 1.0-1.5 |
|                      |                  |           |                  | NULL    |             | End of Boring-Wooden Obstruction at 1.5-2 ft                            |            |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |   |   |
|--|---|---|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b> Advanced Drilling Inc. |   |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig                | <b>Coordinates (NJSPNAD83) x:</b> 611850.06 |
| <b>Date Started Drilling:</b> 3/18/2004  | <b>Rig Type:</b>                                | <b>Coordinates (NJSPNAD83) y:</b> 683306.36 |
| <b>Date Finished Drilling:</b> 3/18/2004 | <b>Core Size:</b> 1.25 inches                   | <b>Boring Total Depth:</b> 9 ft             |
| <b>Logged By:</b> R. Firely              | <b>Project Manager:</b> Scott Mikaelian         | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS       | Graphic Log   | Surface Cover and Thickness:  | Sample ID  |
|----------------------|------------------|-----------|------------------|------------|---|---|------------|
| 1                    |                  |           |                  | ASPHALT    |  | Asphalt/Crushed gravel  |            |
| 1-2                  |                  |           |                  | FILL<br>NR |  | Black (10YR 2/1) coarse to fine SAND, some coarse to fine gravel, trace silt<br>Soft Dig/No Recovery                              | HN 1.0-1.5 |
| 2-3                  |                  |           | moist            | FILL<br>NR |  | Dark brown (10YR 3/3) coarse to fine SAND/SILT, some coarse to fine gravel, trace broken shale, trace ash<br>Soft Dig/No Recovery | HN 3.0-3.5 |
| 3-5                  |                  |           |                  | CLAY       |   | Very Dark Grayish Brown and Grayish Brown (10YR 3/2 and 5/2) SILT and clayey SILT.  | HN 5.0-5.5 |
| 5-7                  |                  |           |                  |            |   |   | HN 7.0-7.5 |
| 7-8                  |                  |           |                  |            |   |   |            |
| 8-9                  |                  |           |                  | NULL       |   | End of Boring   |            |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|   |  |  |
|---|--|--|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611430   |
| <b>Date Started Drilling:</b> 5/27/2016 8:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682857.8 |
| <b>Date Finished Drilling:</b> 5/27/2016 9:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI          |  | <b>Surface Elevation:</b> 13.1 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID               |
|----------------------|------------------|-----------|------------------|----------|-------------|--|-------------------------|
| 1-2                  | 4                | 0.0       |                  | CONCRETE |             | Concrete   |                         |
|                      |                  |           | dry              | FILL     |             | fine to medium SAND, some ash, trace fill debris, (2.5Y 5/2) grayish brown, medium dense, dry, no odor, no staining.   |                         |
|                      |                  |           | dry              | FILL     |             | ASH, trace coal, (2.5Y 5/1) gray, loose, dry, no odor, no staining.  |                         |
| 3-4                  |                  |           |                  | NR       |             | NO RECOVERY  |                         |
| 5-8                  | 3.5              | 0.0       | dry to moist     | FILL     |             | ASH, some coal, trace fill debris, (2.5Y 4/1) dark gray, loose, dry to moist, no odor, no staining.  |                         |
|                      |                  |           | wet              | FILL     |             | fine to medium SAND, some ash, trace fill debris, (2.5Y 2.5/1) black, loose, wet, no odor, no staining, water at 8.0 feet.   |                         |
|                      |                  |           |                  | NR       |             | NO RECOVERY  |                         |
| 10-15                | 4.5              | 0.0       | wet              | FILL     |             | ASH, some fine to medium sand, little fill debris, (5Y 4/1) dark gray, loose, wet, no odor, no staining.   |                         |
|                      |                  |           |                  | NR       |             | NO RECOVERY  |                         |
|                      |                  |           | wet              | FILL     |             | SILT, little wood, trace fill debris, (7.5YR 4/2) brown, soft, wet, no odor, no staining.  |                         |
| 16-18                | 5                | 0.0       | moist            | FILL     |             | fine silty SAND, some coarse gravel, trace organics, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.   | HSD-PDI-BB16A-15.5-16.0 |
|                      |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | HSD-PDI-BB16A-16.0-16.5 |
|                      |                  |           | moist            | OL       |             | Organic SILT, 80% organic SILT, 20% organic fibers, (7.5YR 4/2) brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.  |                         |
| 19-20                |                  |           |                  |          |             |  |                         |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611404.1 |
| <b>Date Started Drilling:</b> 5/27/2016 11:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682827.5 |
| <b>Date Finished Drilling:</b> 5/27/2016 12:30:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI           |  | <b>Surface Elevation:</b> 13.9 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID               |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-------------------------|
| 1                    | 5                | 0.0       |                  | CONCRETE |             | Concrete  |                         |
|                      |                  |           | dry              | FILL     |             | ASH, little cinders, trace wood, (5Y 5/1) gray, loose, dry, no odor, no staining.   |                         |
| 2                    | 3.5              | 0.0       |                  | FILL     |             | ASH, little cinders, trace wood, (5Y 5/1) gray, loose, dry, no odor, no staining.   |                         |
| 3                    |                  |           | moist to wet     | FILL     |             | fine silty SAND, little ash, trace fill debris, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 8.0 feet.                                   |                         |
| 4                    |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 5                    | 4                | 0.0       |                  | FILL     |             | fine silty SAND, some ash, little fill debris, (5YR 4/1) dark gray, medium dense, saturated, no odor, no staining.  |                         |
| 6                    |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 7                    |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 8                    | 5                | 0.0       |                  | FILL     |             | ASH, some fine to medium sand, trace fill debris, (5Y 5/1) gray, loose, saturated, no staining, slight petroleum odor, black staining.  |                         |
| 9                    |                  |           | wet              | FILL     |             | fine silty SAND, little coarse gravel, trace organics, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | HSD-PDI-BB17A-16.5-17.0 |
| 10                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | HSD-PDI-BB17A-17.0-17.5 |
| 11                   |                  |           | moist            | OL       |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.   |                         |
| 12                   |                  |           |                  |          |             |   |                         |
| 13                   |                  |           |                  |          |             |   |                         |
| 14                   |                  |           |                  |          |             |   |                         |
| 15                   |                  |           |                  |          |             |   |                         |
| 16                   |                  |           |                  |          |             |   |                         |
| 17                   |                  |           |                  |          |             |   |                         |
| 18                   |                  |           |                  |          |             |   |                         |
| 19                   |                  |           |                  |          |             |   |                         |
| 20                   |                  |           |                  |          |             |   |                         |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611490.7 |
| <b>Date Started Drilling:</b> 6/10/2016 11:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682923.2 |
| <b>Date Finished Drilling:</b> 6/10/2016 12:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI           |  | <b>Surface Elevation:</b> 13.8 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID               |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-------------------------|
| 1-4                  | 3.5              | 0.0       |                  | CONCRETE |             | Concrete  |                         |
|                      |                  |           | dry              | FILL     |             | ASH, little cinders, (5YR 4/1) dark gray, loose, dry, no odor, no staining.   |                         |
|                      |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 5-8                  | 3                | 0.0       | moist to wet     | FILL     |             | ASH, trace wood, (5Y 4/1) dark gray, loose, moist to wet, no odor, no staining, water at 7.5 feet.  |                         |
|                      |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 10-14                | 4                | 0.0       | wet              | FILL     |             | fine to medium SAND, some ash, (5Y 5/1) gray, medium dense, wet, no odor, no staining.  |                         |
|                      |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 15-20                | 5                | 0.0       | wet              | FILL     |             | ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.   |                         |
|                      |                  |           | wet              | FILL     |             | fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | HSD-PDI-CC13A-16.0-16.5 |
|                      |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | HSD-PDI-CC13A-16.5-17.0 |
|                      |                  |           | moist            | OL       |             | Organic SILT, 80% organic silt, 20% organic fibers, (5Y 5/1) gray, soft, moist, no odor, no staining. Soils consistent with UNDorg.   |                         |

**Notes:**

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |  |
|---|--|--|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611478   |
| <b>Date Started Drilling:</b> 5/26/2016 8:25:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682900.6 |
| <b>Date Finished Drilling:</b> 5/26/2016 9:50:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> HBB                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI          |  | <b>Surface Elevation:</b> 14.1 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID               |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-------------------------|
|                      |                  | 0.0       |                  | CONCRETE |             | Concrete  |                         |
| 1                    | 4.5              | 0.0       | dry              | FILL     |             | CINDERS, trace ash and wood, (5YR 2.5/1) black, loose, dry, no odor, no staining.   | HSD-PDI-CC14A-0.5-1.0   |
| 2                    |                  |           |                  |          |             |   | HSD-PDI-CC14A-2.0-2.5   |
| 3                    |                  |           |                  |          |             |   | HSD-PDI-CC14A-4.0-4.5   |
| 4                    |                  |           |                  |          |             |   |                         |
| 5                    | 3.5              | 0.0       |                  | NR       |             | NO RECOVERY   |                         |
| 6                    |                  |           | dry              | FILL     |             | CINDERS, trace ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.  | HSD-PDI-CC14A-6.0-6.5   |
| 7                    |                  |           | moist            | FILL     |             | ASH, trace glass and coal, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  |                         |
| 8                    |                  |           | saturated        | FILL     |             | CINDERS, trace silt, (5Y 5/1) gray, loose, saturated, no odor, no staining, water at 8.5 feet.  | HSD-PDI-CC14A-8.0-8.5   |
| 9                    |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 10                   | 4.5              | 0.0       | saturated        | FILL     |             | CINDERS, trace ash and wood, (5Y 5/1) gray, loose, saturated, no odor, no staining.   | HSD-PDI-CC14A-10.0-10.5 |
| 11                   |                  |           |                  |          |             |   | HSD-PDI-CC14A-12.0-12.5 |
| 12                   |                  |           |                  |          |             |   | HSD-PDI-CC14A-14.0-14.5 |
| 13                   |                  |           |                  |          |             |   |                         |
| 14                   |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 15                   | 4.5              | 0.0       | saturated        | FILL     |             | CINDERS, trace ash, wood and metal debris, (2.5Y 5/1) gray, loose, saturated, no odor, no staining.   | HSD-PDI-CC14A-16.0-16.5 |
| 16                   |                  |           |                  |          |             |   |                         |
| 17                   |                  |           | wet              | FILL     |             | fine SAND, little silt, trace fine gravel, (7.5YR 4/3) brown, medium dense, wet, slight petroleum odor, slight black staining.  | HSD-PDI-CC14A-17.0-17.5 |
| 18                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | HSD-PDI-CC14A-17.5-18.0 |
| 19                   |                  |           | moist            | OL       |             | Organic SILT, 90% organic silt, 10% organic fibers, (5Y 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg.                                       |                         |
| 20                   |                  |           |                  | NR       |             | NO RECOVERY   |                         |

**Notes:**

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |  |
|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611458.3 |
| <b>Date Started Drilling:</b> 5/26/2016 12:00:00 PM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682867.8 |
| <b>Date Finished Drilling:</b> 5/26/2016 12:45:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI           |  | <b>Surface Elevation:</b> 13.5 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID               |                         |
|----------------------|------------------|-----------|------------------|----------|-------------|--|-------------------------|-------------------------|
|                      |                  | 0.0       |                  | CONCRETE |             | Concrete   |                         |                         |
| 1                    | 4.5              |           | dry              | FILL     |             | medium to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining.  | HSD-PDI-CC15A-0.5-1.0   |                         |
| 2                    |                  |           | dry              | FILL     |             | ASH, trace cinders, coal and fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.  | HSD-PDI-CC15A-2.0-2.5   |                         |
| 3                    |                  |           |                  |          |             |  |                         |                         |
| 4                    |                  |           |                  |          |             |  |                         | HSD-PDI-CC15A-4.0-4.5   |
| 5                    |                  |           |                  | NR       |             | NO RECOVERY  |                         |                         |
| 6                    | 3.5              | 0.0       | moist to wet     | FILL     |             | ASH, trace coal and fill debris, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining, water at 8.5 feet.                         | HSD-PDI-CC15A-6.0-6.5   |                         |
| 7                    |                  |           |                  |          |             |  |                         |                         |
| 8                    |                  |           |                  |          |             |  |                         | HSD-PDI-CC15A-8.0-8.5   |
| 9                    |                  |           |                  | NR       |             | NO RECOVERY  |                         |                         |
| 10                   | 4.5              | 0.0       | saturated        | FILL     |             | ASH, trace coal and fill debris, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.   | HSD-PDI-CC15A-10.0-10.5 |                         |
| 11                   |                  |           | saturated        | FILL     |             | CINDERS, trace ash, coal and fill debris, (5YR 2.5/1) black, loose, saturated, no odor, no staining.   | HSD-PDI-CC15A-12.0-12.5 |                         |
| 12                   |                  |           |                  |          |             |  |                         |                         |
| 13                   |                  |           |                  |          |             |  |                         | HSD-PDI-CC15A-14.0-14.5 |
| 14                   |                  |           |                  | NR       |             | NO RECOVERY  |                         |                         |
| 15                   | 4.5              | 0.0       | saturated        | FILL     |             | CINDERS, trace coal and fill debris, (5YR 2.5/1) black, loose, saturated, no odor, no staining.  | HSD-PDI-CC15A-15.5-16.0 |                         |
| 16                   |                  |           | wet              | FILL     |             | fine to medium SAND, little silt, trace fine gravel, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining.                                 | HSD-PDI-CC15A-16.0-16.5 |                         |
| 17                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, medium stiff, dry, no odor, no staining. |                         |                         |
| 18                   |                  |           | moist            | OL       |             | Organic SILT, 90% organic silt, 10% organic fibers, (5Y 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg.      |                         |                         |
| 19                   |                  |           |                  | NR       |             | NO RECOVERY  |                         |                         |
| 20                   |                  |           |                  |          |             |  |                         |                         |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611554.6 |
| <b>Date Started Drilling:</b> 5/23/2016 12:30:00 PM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682989.7 |
| <b>Date Finished Drilling:</b> 5/23/2016 1:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> ACTUAL - HSD PDI          |  | <b>Surface Elevation:</b> 13.6 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID               |                       |
|----------------------|------------------|-----------|------------------|----------|-------------|--|-------------------------|-----------------------|
| 1                    | 4.5              | 0.0       |                  | CONCRETE |             | Concrete   |                         |                       |
| 2                    |                  |           | dry              | FILL     |             | Ash, some to little cinders, (2.5Y 5/2) grayish brown, loose, dry, no odor, no staining.   | HSD-PDI-DD10A-2.0-2.5   |                       |
| 3                    |                  |           |                  |          |             |  |                         |                       |
| 4                    |                  |           |                  |          |             |  |                         | HSD-PDI-DD10A-4.0-4.5 |
| 5                    | 4.5              | 0.0       |                  | NR       |             | NO RECOVERY  |                         |                       |
| 6                    |                  |           | dry              | FILL     |             | Ash, little coal, (7.5YR 5/1) gray, loose, dry, no odor, no staining.  | HSD-PDI-DD10A-6.0-6.5   |                       |
| 7                    |                  |           | dry to moist     | FILL     |             | fine to medium SAND, some cinders, little ash, (7.5YR 4/2) brown, medium dense to loose, dry to moist, no odor, no staining.   | HSD-PDI-DD10A-8.0-8.5   |                       |
| 8                    |                  |           |                  |          |             |  |                         |                       |
| 9                    |                  |           | wet              | FILL     |             | fine to medium SAND, some wood, little ash, trace ceramics, (7.5YR 2.5/2) very dark brown, loose, wet, no odor, no staining, water at 9.0 feet.                                |                         |                       |
| 10                   | 4.5              | 0.0       |                  | NR       |             | NO RECOVERY  |                         |                       |
| 11                   |                  |           | wet              | FILL     |             | Ash, trace fill debris, (2.5Y 5/1) gray, loose, wet, no odor, no staining.   | HSD-PDI-DD10A-12.0-12.5 |                       |
| 12                   |                  |           |                  |          |             |  |                         |                       |
| 13                   |                  |           |                  |          |             |  |                         |                       |
| 14                   |                  |           | wet              | FILL     |             | SILT, little wood, trace ash, (7.5YR 2.5/2) very dark brown, soft, wet, no odor, no staining.  | HSD-PDI-DD10A-14.0-14.5 |                       |
| 15                   | 4                | 2.0       |                  | NR       |             | NO RECOVERY  |                         |                       |
| 16                   |                  |           | moist            | FILL     |             | sandy SILT, some organics, little ash, (5YR 4/3) reddish brown, soft, moist, no odor, no staining.   | HSD-PDI-DD10A-15.0-15.5 |                       |
| 17                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, firm, dry, slight organic odor, no staining. Soils consistent with MM. | HSD-PDI-DD10A-15.5-16.0 |                       |
| 18                   |                  |           |                  |          |             |  |                         |                       |
| 19                   |                  |           | moist            | OL       |             | Organic SILT, 80% organic SILT, 20% organic fibers, (7.5YR 4/2) brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.                            |                         |                       |
| 20                   |                  |           |                  | NR       |             | NO RECOVERY  |                         |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611540.5 |
| <b>Date Started Drilling:</b> 5/26/2016 8:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682963.1 |
| <b>Date Finished Drilling:</b> 5/26/2016 9:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> Actual - HSD PDI          |  | <b>Surface Elevation:</b> 13.4 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID               |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-------------------------|
| 1-4                  | 4.5              | 0.0       |                  | CONCRETE |             | Concrete  |                         |
|                      |                  |           | dry              | FILL     |             | ASH, little cinders, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.   | HSD-PDI-DD11A-0.4-0.9   |
|                      |                  |           |                  | NR       |             | NO RECOVERY   | HSD-PDI-DD11A-4.0-4.5   |
| 5-8                  | 3.5              | 0.0       | dry              | FILL     |             | ASH, little wood, trace fill debris, (2.5Y 5/1) gray, loose, dry, no odor, no staining.   | HSD-PDI-DD11A-6.0-6.5   |
|                      |                  |           | moist to wet     | FILL     |             | fine to medium SAND, some fine gravel, little ash, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining, water at 8.5 feet.  | HSD-PDI-DD11A-8.0-8.5   |
|                      |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 10-14                | 4.5              | 0.0       | wet              | FILL     |             | fine to medium SAND, some fine gravel, trace ash, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.  | HSD-PDI-DD11A-12.0-12.5 |
|                      |                  |           | wet              | FILL     |             | ASH, little fine to medium sand, (2.5Y 5/2) grayish brown, loose, wet, no odor, no staining.  | HSD-PDI-DD11A-14.0-14.5 |
|                      |                  |           |                  | NR       |             | NO RECOVERY   |                         |
| 15-19                | 5                | 0.0       | wet              | FILL     |             | fine SAND, trace ash and glass, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.  | HSD-PDI-DD11A-16.0-16.5 |
|                      |                  |           | wet              | FILL     |             | fine silty SAND, some coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | HSD-PDI-DD11A-16.5-17.0 |
|                      |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | HSD-PDI-DD11A-17.0-17.5 |
| 19-20                |                  |           | moist            | OL       |             | Organic SILT, 80% organic SILT, 20% organic fibers, (2.5Y 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.                                 |                         |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611606.2 |
| <b>Date Started Drilling:</b> 5/23/2016 11:00:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683028.4 |
| <b>Date Finished Drilling:</b> 5/23/2016            | <b>Core Size:</b> 2.0 in                   | <b>Boring Total Depth:</b> 20 ft           |
| <b>Logged By:</b> HBB                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b> ACTUAL - HSD PDI          |  | <b>Surface Elevation:</b> 13.8 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:   | Sample ID              |                      |
|----------------------|------------------|-----------|------------------|----------|-------------|--|------------------------|----------------------|
|                      |                  | 0.0       |                  | CONCRETE |             | Concrete   |                        |                      |
| 1                    | 3                | 0.0       | moist            | FILL     |             | fine to coarse SAND, little silt, trace fine to medium gravel and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.<br>ASH, trace coal, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. | HSD-PDI-EE8A-0.5-1.0   |                      |
| 2                    |                  |           | moist            | FILL     |             |  |                        | HSD-PDI-EE8A-2.5-3.0 |
| 3                    |                  |           |                  |          |             | NR   |                        | NO RECOVERY          |
| 4                    | 3                | 0.0       | moist            | FILL     |             | ASH, trace coal and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.   | HSD-PDI-EE8A-4.5-5.0   |                      |
| 5                    |                  |           | moist            | FILL     |             | fine to medium SAND, some fine gravel, trace cinders and glass, (5Y 5/1) gray, medium dense, moist, no odor, no staining.  | HSD-PDI-EE8A-6.5-7.0   |                      |
| 6                    |                  |           |                  |          |             | NR   |                        | NO RECOVERY          |
| 7                    |                  |           |                  |          |             |  |                        |                      |
| 8                    | 3                | 1.0       | moist to wet     | FILL     |             | fine to medium SAND, little fine gravel and cinders, trace ash, (5Y 5/1) gray, loose, moist to wet, no odor, no staining, water at 9.0 feet.   | HSD-PDI-EE8A-8.5-9.0   |                      |
| 9                    |                  |           |                  |          |             |  |                        |                      |
| 10                   |                  |           |                  |          |             | NR   |                        | NO RECOVERY          |
| 11                   |                  |           |                  |          |             |  |                        |                      |
| 12                   | 3                | 0.0       | moist            | FILL     |             | fine to coarse SAND, little fine gravel and cinders, trace ash and coal, (5YR 2.5/1) black, loose, moist, no odor, no staining.  | HSD-PDI-EE8A-12.5-13.0 |                      |
| 13                   |                  |           |                  |          |             |  |                        |                      |
| 14                   |                  |           |                  |          |             | NR   |                        | NO RECOVERY          |
| 15                   |                  |           |                  |          |             |  |                        |                      |
| 16                   | 2.5              | 0.4       | wet              | FILL     |             | fine to medium SAND, little silt, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.  | HSD-PDI-EE8A-16.0-16.5 |                      |
| 17                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 2.5/2) dark reddish brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with MM.                                     | HSD-PDI-EE8A-16.5-17.0 |                      |
| 18                   |                  |           | wet              | ML       |             | fine to medium sandy SILT, (5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |                        |                      |
| 19                   |                  |           |                  |          |             | NR   |                        | NO RECOVERY          |
| 20                   |                  |           |                  |          |             |  |                        |                      |

**Notes:**  
bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611679.44 |
| <b>Date Started Drilling:</b> 5/19/2016 8:00:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683098.67 |
| <b>Date Finished Drilling:</b> 5/19/2016 10:15:00 AM | <b>Core Size:</b> 3 in                     | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSD PDI           |  | <b>Surface Elevation:</b> 14.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|----------|-------------|---|------------------------|
| 1                    | 3.5              | 0.0       |                  | CONCRETE |             | Concrete and brick, trace fine to medium sand, (7.5YR 4/2) brown, loose, dry, no odor, no staining.   |                        |
| 2                    |                  |           | dry              | FILL     |             | fine to medium SAND, trace ash and fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.   | HSD-PDI-FF5A-1.0-1.5   |
| 3                    |                  |           | moist            | FILL     |             | ASH, (5Y 5/1) gray, loose, moist, no odor, no staining.   | HSD-PDI-FF5A-3.0-3.5   |
| 4                    |                  |           |                  | NR       |             | NO RECOVERY   |                        |
| 5                    | 4.5              | 606       | moist            | FILL     |             | ASH, (5Y 5/1) gray, loose, moist, slight petroleum odor, no staining.   | HSD-PDI-FF5A-5.0-5.5   |
| 6                    |                  |           | moist            | FILL     |             | CINDERS, trace ash and fill debris, (5YR 2.5/1) black, medium dense, moist, moderate petroleum odor, no staining.   |                        |
| 7                    |                  |           | wet              | FILL     |             | SILT, trace fine sand and ash, (7.5YR 3/4) dark brown, soft, wet, no odor, no staining, water at 8.0 feet.  | HSD-PDI-FF5A-7.0-7.5   |
| 8                    |                  |           |                  | NR       |             | NO RECOVERY   |                        |
| 9                    | 3.5              | 14.2      |                  | NR       |             | NO RECOVERY   | HSD-PDI-FF5A-9.0-9.5   |
| 10                   |                  |           | wet              | FILL     |             | SILT, trace fine to medium sand and ash, (7.5YR 3/4) dark brown, soft, wet, no odor, no staining.   |                        |
| 11                   |                  |           |                  | NR       |             | NO RECOVERY   |                        |
| 12                   |                  |           | saturated        | FILL     |             | fine to coarse SAND, some silt, trace fine gravel, (5Y 5/1) gray, soft, saturated, no odor, no staining.  | HSD-PDI-FF5A-11.0-11.5 |
| 13                   |                  |           |                  | NR       |             | NO RECOVERY   | HSD-PDI-FF5A-13.0-13.5 |
| 14                   | 4.5              | 0.0       |                  | NR       |             | NO RECOVERY   |                        |
| 15                   |                  |           | wet              | FILL     |             | fine to medium SAND, some silt, trace fine gravel and ash, (5Y 5/1) gray, soft, wet, no odor, no staining.  | HSD-PDI-FF5A-15.0-15.5 |
| 16                   |                  |           | wet              | FILL     |             | fine SAND, some silt, trace glass, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.  | HSD-PDI-FF5A-16.3-16.8 |
| 17                   |                  |           | dry              | PT       |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, medium stiff, dry, moderate organic odor no staining. Soils consistent with MM. | HSD-PDI-FF5A-16.8-17.3 |
| 18                   |                  |           |                  | NR       |             | NO RECOVERY   |                        |
| 19                   |                  |           | moist            | OL       |             | Organic SILT (90% organic silt, 10% organic fibers), trace fine sand and gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.            |                        |
| 20                   |                  |           |                  | NR       |             | NO RECOVERY   |                        |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b>                |  |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig/HSA    | <b>Coordinates (NJSPNAD83) x:</b> 611601.4 |
| <b>Date Started Drilling:</b> 7/24/2006  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683065.4 |
| <b>Date Finished Drilling:</b> 7/31/2006 | <b>Core Size:</b> 12 inches             | <b>Boring Total Depth:</b> 27 ft           |
| <b>Logged By:</b> M. Abdelaziz           | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 12.8 ft NAVD88   |

| Depth Range (ft bgs)                       | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID                  |
|--|------------------|-----------|------------------|---------|-------------|--|----------------------------|
|  |                  |           | dry              | ASPHALT |             | Asphalt  |                            |
| 1  |                  |           | dry              | FILL    |             | Black (7.5R2.5) coarse to medium SAND, some medium to fine Gravel, trace Silt, dry.<br>Soft Dig - No Recovery  | OSB-24A(0.5-1.0)20060724   |
| 2  |                  |           | dry              | NR      |             |  |                            |
| 3  |                  |           |                  |         |             |  |                            |
| AECOM Note: CCPW noted in log is in error. |                  |           |                  |         |             |  |                            |
| 5  |                  |           | wet              | FILL    |             | Dark gray (7.5YR4) medium SAND, some Silt, trace fine to very fine Gravel, wet.  | OSB-24B(4.5-5.0)20060724   |
| 7  |                  |           | dry              | FILL    |             | Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, dry. Petroleum odor.<br>Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, wet. Petroleum odor and sheen. | OSB-24C(8-9)20060731       |
| 8  |                  |           | wet              | FILL    |             |  |                            |
| 12   |                  |           | wet              | FILL    |             | Dark brown (7.5YR3/3) medium to fine SAND, some Silt, trace(-) Clay, wet to moist. 25% COPR.   | OSB-24D(11.7-12.7)20060731 |
| 13   |                  |           | wet              | NR      |             | No Recovery  | OSB-24E(15.5-16)20060731   |
| 14   |                  |           | wet              | FILL    |             | Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, wet. Petroleum odor and sheen.<br>Dark brown (7.5YR3/3) medium to fine SAND, some Silt, trace(-) Clay, wet to moist.                           |                            |
| 15   |                  |           | wet              | FILL    |             |  |                            |
| 16   |                  |           | dry              | PEAT    |             | PEAT, dry.   |                            |
| 17   |                  |           | dry              | NR      |             | No Recovery  |                            |
| 18   |                  |           | dry              | PEAT    |             | PEAT   |                            |
| 20   |                  |           | wet              | SAND    |             | Gray (7.5RN5) coarse to medium SAND, some Silt and fine Sand, trace fine Gravel, wet.  |                            |
| 21   |                  |           | wet              | NR      |             | No Recovery  | OSB-24F(20-21)20060731     |
| 22   |                  |           | wet              | SAND    |             | Reddish brown (2.5YR4/4) coarse to medium SAND, some Silt and fine Sand, trace fine Gravel, wet. Napthalene odor.  |                            |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNdno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNdorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |   |  |
|--|---|--|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b>                |  |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig/HSA    | <b>Coordinates (NJSPNAD83) x:</b> 611601.4 |
| <b>Date Started Drilling:</b> 7/24/2006  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683065.4 |
| <b>Date Finished Drilling:</b> 7/31/2006 | <b>Core Size:</b> 12 inches             | <b>Boring Total Depth:</b> 27 ft           |
| <b>Logged By:</b> M. Abdelaziz           | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 12.8 ft NAVD88   |

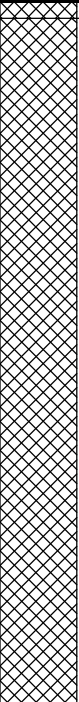
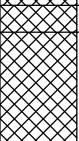

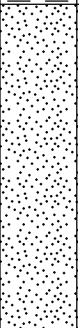

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS       | Graphic Log | Surface Cover and Thickness:  | Sample ID |
|----------------------|------------------|-----------|------------------|------------|-------------|---|-----------|
| 26                   |                  |           | wet              | SAND       |             | Reddish brown (2.5YR4/4) coarse to medium SAND, some Silt and fine Sand, trace coarse Gravel, wet. Napthalene odor. |           |
| 27                   |                  |           | wet<br>wet       | NR<br>NULL |             | No Recovery<br>End of boring at 27 feet.  |           |

**Notes:**

bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|   |  |  |
|---|--|--|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611610.888 |
| <b>Date Started Drilling:</b> 5/9/2017 10:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683065.722 |
| <b>Date Finished Drilling:</b> 5/9/2017 10:35:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 25 ft             |
| <b>Logged By:</b> S. Peters                         | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> 6.0 ft                |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.1 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:  | Sample ID         |
|----------------------|------------------|-----------|------------------|--------------|---|---|-------------------|
| 1                    | 5                | 0.0       | dry              | FILL<br>FILL |   | fine to medium GRAVEL, (5YR 6/1) gray, loose, dry, no odor, no staining.<br>fine to medium SAND, some cinders, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining, water at 6.0 feet. |                   |
| 2                    |                  |           | moist to wet     |              |   |   |                   |
| 3                    |                  |           |                  |              |   |   |                   |
| 4                    |                  |           |                  |              |   |   |                   |
| 5                    |                  |           |                  |              |   |   |                   |
| 6                    | 5                | 0.0       |                  | FILL<br>FILL |  | fine sandy SILT, (7.5YR 4/2) brown, firm, moist, no odor, no staining.<br>fine to medium SAND, some cinders, (7.5YR 6/1) gray, loose, moist, no odor, no staining.                              |                   |
| 7                    |                  |           |                  |              |   |   |                   |
| 8                    |                  |           |                  |              |   |   |                   |
| 9                    |                  |           |                  |              |   |   |                   |
| 10                   |                  |           |                  |              |   |   |                   |
| 11                   | 5                | 0.0       |                  | OL           |  | Organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 4/2) brown, firm, moist, moderate organic odor, no staining. Soils consistent with UNDorg.   | OSB-24R-15.5-16.0 |
| 12                   |                  |           | moist            |              |   |   |                   |
| 13                   |                  |           | moist            |              |   |   |                   |
| 14                   |                  |           |                  |              |   |   |                   |
| 15                   |                  |           |                  |              |   |   |                   |
| 16                   | 5                | 0.0       |                  | SP           |  | medium SAND, trace medium gravel, (5YR 6/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.   |                   |
| 17                   |                  |           | moist            |              |   |   |                   |
| 18                   |                  |           | wet              |              |   |   |                   |
| 19                   |                  |           |                  |              |   |   |                   |
| 20                   |                  |           |                  |              |   |   |                   |
| 21                   | 5                | 0.0       |                  | SW           |  | medium to coarse SAND, some coarse gravel, (5YR 4/3) reddish brown, dense, moist, no odor, no staining. Soils consistent with UNDno.  |                   |
| 22                   |                  |           |                  |              |   |   |                   |
| 23                   |                  |           | moist            |              |   |   |                   |
| 24                   |                  |           |                  |              |   |   |                   |
| 25                   |                  |           |                  |              |   |   |                   |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 5/17/17 10:24

|  |   |  |
|--|---|--|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b>                |  |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig/HSA    | <b>Coordinates (NJSPNAD83) x:</b> 611637.9 |
| <b>Date Started Drilling:</b> 7/24/2006  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683100.4 |
| <b>Date Finished Drilling:</b> 7/31/2006 | <b>Core Size:</b> 12 inches             | <b>Boring Total Depth:</b> 27 ft           |
| <b>Logged By:</b> M. Abdelaziz           | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.5 ft NAVD88   |



| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID                          |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------------------------|
|                      |                  |           | dry              | ASPHALT |             | Asphalt   |                                    |
| 1                    |                  |           | dry              | FILL    |             | Very dark gray (10YR3/1) coarse to medium SAND, some medium to fine Gravel, little Silt, dry.<br>Soft Dig - No Recovery   | OSB-25A(0.5-1.0)20060724           |
| 2                    |                  |           | dry              | NR      |             |   |                                    |
| 3                    |                  |           |                  |         |             |   |                                    |
| 4                    |                  |           | dry              | FILL    |             | Dark gray (7.5RN4) coarse to medium SAND, some Silt, little medium to fine Gravel, trace Clay, dry.<br>Soft Dig - No Recovery   |                                    |
| 5                    |                  |           | dry              | NR      |             |   |                                    |
| 6                    |                  |           | dry              | FILL    |             | Dark gray (7.5RN4) coarse to medium SAND, some Silt, little medium to fine Gravel, trace Clay, dry.<br>Black (7.5R2.5) GLASS, COAL ASH and SLAG, dry.<br>Dark brown (7.5YR4/3) coarse to medium SAND, some Silt, little medium to fine Gravel, trace Clay, dry. | OSB-25B(4.5-5.0)20060724           |
| 7                    |                  |           | dry              | FILL    |             |   |                                    |
| 8                    |                  |           | dry              | NR      |             |   |                                    |
| 9                    |                  |           | dry              | FILL    |             | Dark brown (7.5YR4/3) coarse to medium SAND, some Silt, little medium to fine Gravel, trace Clay, dry.  | OSB-25C(7.1-7.6)20060731<br>OSB25C |
| 10                   |                  |           | dry              | NR      |             |   |                                    |
| 11                   |                  |           | dry              | NR      |             | No Recovery   |                                    |
| 12                   |                  |           | dry              | FILL    |             | PEAT.   | OSB-25D(9-9.5)20060731             |
| 13                   |                  |           | dry              | FILL    |             | Dark brown (7.5YR4/3) coarse to medium SAND, some Silt, little medium to fine Gravel, trace Clay, dry.  |                                    |
| 14                   |                  |           | dry              | NR      |             | No Recovery   |                                    |
| 15                   |                  |           | moist            | FILL    |             | Very dark grayish brown (10YR3/2) medium to fine SAND, some Silt, trace fine Gravel and Clay, moist. 10% COPR.  | OSB-25E(14-14.5)20060731           |
| 16                   |                  |           | moist            | NR      |             |   |                                    |
| 17                   |                  |           | moist            | FILL    |             | Very dark grayish brown (10YR3/2) medium to fine SAND, some Silt, trace fine Gravel and Clay, moist. 10% COPR.<br>PEAT  | OSB-25F(15.5-16)20060731           |
| 18                   |                  |           | moist            | FILL    |             |   |                                    |
| 19                   |                  |           | moist            | NR      |             | No Recovery   |                                    |
| 20                   |                  |           | moist            | FILL    |             | Very dark grayish brown (10YR3/2) medium to fine SAND, some Silt, trace fine Gravel and Clay, moist. 10% COPR.<br>Naphthalene odor.   |                                    |
| 21                   |                  |           | moist            | NR      |             |   |                                    |
| 22                   |                  |           | wet              | FILL    |             | Dark reddish brown (2.5YR3/4) coarse SAND, some medium to fine Gravel, trace Silt, wet. 1% COPR.<br>Naphthalene odor.   |                                    |
| 23                   |                  |           | wet              | FILL    |             |   |                                    |
| 24                   |                  |           | wet              | NR      |             | No Recovery   |                                    |

AECOM Note: CCPW noted in log is in error. Additional errors appear to be present in the log. Boring log is not usable for design purposes.

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNOrg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

|  |   |  |
|--|---|--|
| <b>Project Name:</b> PPG Garfield Ave    | <b>Drilling Company:</b>                |  |
| <b>Project Number:</b> 60240739          | <b>Drilling Method:</b> Soft Dig/HSA    | <b>Coordinates (NJSPNAD83) x:</b> 611637.9 |
| <b>Date Started Drilling:</b> 7/24/2006  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683100.4 |
| <b>Date Finished Drilling:</b> 7/31/2006 | <b>Core Size:</b> 12 inches             | <b>Boring Total Depth:</b> 27 ft           |
| <b>Logged By:</b> M. Abdelaziz           | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                  |
| <b>Physical Location:</b>                |   | <b>Surface Elevation:</b> 13.5 ft NAVD88   |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log   | Surface Cover and Thickness:   | Sample ID |
|----------------------|------------------|-----------|------------------|------|---|--|-----------|
| 26                   |                  |           | wet              | FILL |  | Dark reddish brown (2.5YR3/4) coarse SAND, some medium to fine Gravel, trace Silt, wet. Napthalene odor. |           |
| 27                   |                  |           | wet              | FILL |  | Weak red (10R4/3) fine to very fine SAND, some Silt, wet. Napthalene odor.                               |           |
| 27                   |                  |           | wet              | NULL |   | End of boring at 27 feet.  |           |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:









|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611922.78 |
| <b>Date Started Drilling:</b> 6/27/2016 8:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683396.03 |
| <b>Date Finished Drilling:</b> 6/27/2016 9:25:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 15 ft            |
| <b>Logged By:</b> KW                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - Forrest PDI      |  | <b>Surface Elevation:</b> 13.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|-----------------------|
| 0                    | 3.5              | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base  |                       |                       |
| 1                    |                  |           | dry              | FILL    |             | fine to medium SAND, (5YR 7/6) reddish yellow, loose, dry, no odor, no staining.   | P4-FOR-II8B-1.0-1.5   |                       |
| 2                    |                  |           | moist            | FILL    |             | fine to medium sandy SILT, trace fine gravel, glass and coal, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. | P4-FOR-II8B-2.5-3.0   |                       |
| 3                    |                  |           |                  |         |             |  |                       | P4-FOR-II8B-3.0-3.5   |
| 4                    |                  |           |                  | NR      |             | NO RECOVERY  |                       |                       |
| 5                    | 4.5              | 0.0       | saturated        | FILL    |             | SILT, (5Y 5/1) gray, dense, saturated, no odor, no staining, water at 5.5 feet.  | P4-FOR-II8B-5.0-5.5   |                       |
| 6                    |                  |           |                  |         |             |  |                       |                       |
| 7                    |                  |           |                  |         |             |  |                       | P4-FOR-II8B-7.0-7.5   |
| 8                    |                  |           | saturated        | FILL    |             | fine sandy SILT, (5YR 5/2) reddish gray, medium dense, saturated, no odor, no staining.  |                       |                       |
| 9                    |                  |           |                  | NR      |             | NO RECOVERY  | P4-FOR-II8B-9.0-9.5   |                       |
| 10                   | 3.5              | 0.0       | saturated        | FILL    |             | fine SAND, (5YR 4/1) dark gray, loose, saturated, no odor, no staining.  |                       |                       |
| 11                   |                  |           | saturated        | FILL    |             | sandy SILT, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.  | P4-FOR-II8B-11.0-11.5 |                       |
| 12                   |                  |           | saturated        | SP-SM   |             | fine silty SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.            | P4-FOR-II8B-11.5-12.0 |                       |
| 13                   |                  |           |                  |         |             |  |                       | P4-FOR-II8B-12.0-12.5 |
| 14                   |                  |           |                  | NR      |             | NO RECOVERY  |                       |                       |
| 15                   |                  |           |                  |         |             |  |                       |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat            GGM - green grey mud            UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611941.6  |
| <b>Date Started Drilling:</b> 6/27/2016 9:45:00 AM   | <b>Rig Type:</b> Geoprobe                  | <b>Coordinates (NJSPNAD83) y:</b> 683427.64 |
| <b>Date Finished Drilling:</b> 6/27/2016 10:20:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 15 ft            |
| <b>Logged By:</b> KW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - Forrest PDI       |  | <b>Surface Elevation:</b> 13.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content   | USCS  | Graphic Log   | Surface Cover and Thickness:  | Sample ID   |                     |                     |
|----------------------|------------------|-----------|--------------------|-------|---|---|---|---------------------|---------------------|
| 1<br>2<br>3<br>4     | 4.5              | 0.0       | dry                | FILL  |    | fine to medium silty SAND, trace fine gravel, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.   | P4-FOR-II9B-0.0-0.5   |                     |                     |
|                      |                  |           | moist              | FILL  |    |   | SILT, (5YR 7/6) reddish yellow, medium dense, moist, no odor, no staining.                                      | P4-FOR-II9B-2.0-2.5 |                     |
|                      |                  |           |                    |       |   |   |   |                     | P4-FOR-II9B-4.0-4.5 |
|                      |                  |           |                    | NR    |   |   |   | NO RECOVERY         |                     |
| 6<br>7<br>8<br>9     | 4                | 0.0       | moist              | FILL  |    | SILT, (5YR 7/6) reddish yellow, medium dense, moist, no odor, no staining.  |   |                     |                     |
|                      |                  |           | moist to saturated | FILL  |    |   | sandy SILT, (5YR 4/3) reddish brown, medium dense, moist to saturated, no odor, no staining, water at 7.0 feet. | P4-FOR-II9B-6.0-6.5 |                     |
|                      |                  |           | saturated          | SP-SM |  | fine SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.<br>NO RECOVERY | P4-FOR-II9B-8.0-8.5   |                     |                     |
|                      |                  |           |                    | NR    |   |   |   | P4-FOR-II9B-8.5-9.0 |                     |
| 11<br>12<br>13       | 3                | 0.0       | saturated          | SP-SM |  | fine SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.                |   |                     |                     |
|                      |                  |           |                    | NR    |   |   |   |                     |                     |
| 15                   |                  |           |                    |       |   |   |   |                     |                     |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |  |
|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                            | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                                  | <b>Drilling Method:</b> DIRECT PUSH        | <b>Coordinates (NJSPNAD83) x:</b> 611941.205 |
| <b>Date Started Drilling:</b> 10/17/2016 9:20:00 AM              | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683429.812 |
| <b>Date Finished Drilling:</b> 10/17/2016 10:00:00 AM            | <b>Core Size:</b> 3.0                      | <b>Boring Total Depth:</b> 21 ft             |
| <b>Logged By:</b> ES   | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                    |
| <b>Physical Location:</b> Actual - Forrest St - Supplemental PDI |  | <b>Surface Elevation:</b> 13.9 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID              |
|----------------------|------------------|-----------|------------------|------|-------------|--|------------------------|
| 1-4                  | 4                | 0.0       | slightly moist   | FILL |             | fine to medium SAND, little organics, trace silt and fine gravel, (7.5YR 4/3) brown, medium dense, slightly moist, no odor, no staining. |                        |
|                      |                  |           | dry              | FILL |             |  |                        |
|                      |                  |           | moist            | FILL |             |  |                        |
|                      |                  |           |                  |      |             |  |                        |
| 5-5                  |                  |           |                  | NR   |             | NO RECOVERY  |                        |
| 6-9                  | 3.5              | 0.0       | moist            | FILL |             | fine SAND, some silt, little concrete and fill debris, (5YR 6/3) light reddish brown, medium dense, moist, no odor, no staining.         |                        |
|                      |                  |           | wet              | SP   |             |  |                        |
|                      |                  |           |                  | NR   |             |  |                        |
| 10-10                |                  |           | wet              | SP   |             | fine to coarse SAND, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.         | P4-FOR-II9BR-10.0-10.5 |
| 12-13                | 4.5              | 0.0       |                  |      |             |  | P4-FOR-II9BR-12.0-12.5 |
|                      |                  |           | wet              | SM   |             |  |                        |
| 14-15                | 4.5              | 0.0       | wet              | ML   |             | SILT, some fine sand, trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  | P4-FOR-II9BR-14.0-14.5 |
|                      |                  |           |                  | NR   |             |  |                        |
| 16-19                | 5                | 0.0       | wet              | ML   |             | NO RECOVERY<br>fine sandy SILT, (5YR 4/3) reddish brown, soft, wet, no odor, no staining. Soils consistent with UNDno.                   | P4-FOR-II9BR-16.0-16.5 |
|                      |                  |           |                  |      |             |  |                        |
| 18-20                | 5                | 0.0       |                  |      |             |  | P4-FOR-II9BR-18.0-18.5 |
|                      |                  |           | wet              | SM   |             |  |                        |
| 20-20                | 1                | 0.0       |                  |      |             |  | P4-FOR-II9BR-20.0-20.5 |
| 21-21                |                  |           |                  |      |             |  |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611954.29 |
| <b>Date Started Drilling:</b> 6/28/2016 8:20:00 AM  | <b>Rig Type:</b> Geoprobe                  | <b>Coordinates (NJSPNAD83) y:</b> 683373.67 |
| <b>Date Finished Drilling:</b> 6/28/2016 9:10:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 15 ft            |
| <b>Logged By:</b> KW                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - Forrest PDI      |  | <b>Surface Elevation:</b> 13.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID           |
|----------------------|------------------|-----------|------------------|---------|-------------|--|---------------------|
| 0 - 1                | 5                | 0.7       |                  | ASPHALT |             | Asphalt and gravel sub-base  |                     |
| 1 - 2                |                  |           | dry to moist     | FILL    |             | SILT, (5Y 4/2) olive gray, dense, dry to moist, no odor, no staining.  | P4-FOR-JJ8B-1.0-1.5 |
| 2 - 3                |                  |           |                  |         |             |  |                     |
| 3 - 5                | 3.5              | 0.3       | moist moist      | FILL    |             | sandy SILT, (5YR 5/3) reddish brown, dense, moist, no odor, no staining.   | P4-FOR-JJ8B-5.0-5.5 |
| 5 - 6                |                  |           |                  | FILL    |             | sandy SILT, (5YR 5/3) reddish brown, dense, moist, no odor, no staining.   | P4-FOR-JJ8B-5.5-6.0 |
| 6 - 7                |                  |           | saturated        | SP-SM   |             | fine silty SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.                               | P4-FOR-JJ8B-6.0-6.5 |
| 7 - 8                |                  |           | saturated        | SP      |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, loose, saturated slight varnish-like odor, no staining, sheen. Soils consistent with UNDno.  |                     |
| 8 - 9                |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 9 - 10               | 3.5              | 1.9       | saturated        | SP      |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, loose, saturated, slight varnish-like odor, no staining, sheen. Soils consistent with UNDno. |                     |
| 10 - 11              |                  |           | saturated        | ML      |             | SILT, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining. Soils consistent with UNDno.  |                     |
| 11 - 12              |                  |           | saturated        | SP      |             | fine SAND, some fine gravel, (7.5YR 3/2) dark brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.  |                     |
| 12 - 13              |                  |           | saturated        | SP-SM   |             | fine silty SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.  |                     |
| 13 - 14              |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 14 - 15              |                  |           |                  |         |             |  |                     |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |  |
|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611963.583 |
| <b>Date Started Drilling:</b> 10/21/2016 8:20:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683380.784 |
| <b>Date Finished Drilling:</b> 10/21/2016 9:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft             |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                    |
| <b>Physical Location:</b> Actual - Forrest PDI       |  | <b>Surface Elevation:</b> 13.4 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID              |                        |
|----------------------|------------------|-----------|------------------|----------|-------------|---|------------------------|------------------------|
| 1                    | 5                | 0.0       |                  | ASPHALT  |             | ASPHALT and gravel sub-base   |                        |                        |
|                      |                  |           |                  | CONCRETE |             | CONCRETE  |                        |                        |
|                      |                  |           | moist            | FILL     |             | fine to medium SAND, little silt, trace brick, (2.5Y 5/2) grayish brown, medium dense, moist, no odor, no staining.                               |                        |                        |
| 2                    |                  |           |                  |          |             |   |                        |                        |
| 3                    |                  |           |                  |          |             |   |                        |                        |
| 4                    |                  |           |                  |          |             |   |                        |                        |
| 5                    |                  |           | wet              | FILL     |             | fine to coarse SAND, some medium to coarse gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining, water at 5.0 feet.           | P4-FOR-JJ8BR-4.0-4.5   |                        |
| 6                    | 4                | 0.0       |                  | SP       |             | fine to medium SAND, some coarse gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.           | P4-FOR-JJ8BR-6.0-6.5   |                        |
| 7                    |                  |           |                  |          |             |   | P4-FOR-JJ8BR-6.5-7.0   |                        |
| 8                    |                  |           |                  |          |             |   |                        | P4-FOR-JJ8BR-7.0-7.5   |
| 9                    |                  |           |                  | NR       |             | NO RECOVERY   | P4-FOR-JJ8BR-8.5-9.0   |                        |
| 10                   | 5                | 0.0       | wet              | SP       |             | fine to medium SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.            | P4-FOR-JJ8BR-10.5-11.0 |                        |
| 11                   |                  |           |                  |          |             |   |                        |                        |
| 12                   |                  |           |                  |          |             |   |                        | P4-FOR-JJ8BR-12.5-13.0 |
| 13                   |                  |           |                  |          |             |   |                        |                        |
| 14                   |                  |           |                  |          |             |   |                        |                        |
| 15                   |                  |           | wet              | SP       |             | fine to medium SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                               | P4-FOR-JJ8BR-14.5-15.0 |                        |
| 16                   | 5                | 0.0       |                  |          |             |   |                        |                        |
| 17                   |                  |           |                  |          |             |   |                        | P4-FOR-JJ8BR-16.5-17.0 |
| 18                   |                  |           |                  |          |             |   |                        |                        |
| 19                   |                  |           | wet              | SP       |             | fine to coarse SAND, some fine gravel, trace silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | P4-FOR-JJ8BR-18.5-19.0 |                        |
| 20                   | 1                | 0.0       |                  |          |             |   | P4-FOR-JJ8BR-20.0-20.5 |                        |
| 21                   |                  |           |                  |          |             |   |                        |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT - 12/21/16 09:17

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611447.48 |
| <b>Date Started Drilling:</b> 5/11/2016 8:00:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682972.1  |
| <b>Date Finished Drilling:</b> 5/11/2016 9:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> HBB                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID   |
|----------------------|------------------|-----------|------------------|------|-------------|---|---|
| 1-4                  | 4.2              | 0.0       | dry              | FILL |             | DGA, (5YR 5/1) gray, dry, no odor, no staining.   |   |
|                      |                  |           | dry              | FILL |             | fine to coarse SAND, some to little COPR (30%), trace glass and fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.                              |   |
|                      |                  |           | dry moist        | FILL |             | GGM (100%), (5Y 5/1) gray, medium dense, dry, no odor, green staining.  |   |
|                      |                  |           | dry moist        | FILL |             | fine to coarse SAND, little coal and ash, (5YR 2.5/1) black, medium dense, moist, no odor, no staining.   |   |
| 5-5                  |                  |           |                  | NR   |             | NO RECOVERY   |   |
| 6-8                  | 2.5              | 12        | wet              | FILL |             | coarse SAND, little medium gravel, trace glass and fill debris, (7.5YR 4/3) brown, medium dense, wet, slight MGP-like odor, product staining, sheen, water at 5.0 feet bgs. |   |
|                      |                  |           |                  | NR   |             | NO RECOVERY   |   |
| 10-14                | 3.8              | 0.0       | moist            | FILL |             | coarse SAND, little medium gravel, trace wood, (7.5YR 3/4) dark brown, medium dense, moist, slight MGP-like odor, product staining, sheen.                                  |   |
|                      |                  |           | saturated        | FILL |             |   |   |
|                      |                  |           | saturated        | FILL |             | fine SAND, trace fine to medium gravel, (2.5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.   |   |
|                      |                  |           |                  | NR   |             | NO RECOVERY   |   |
| 16-20                | 5                | 0.0       | moist            | FILL |             | coarse SAND, trace organics and fill debris, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.  | P4-HSN-AA12A-15.0-15.5  |
|                      |                  |           | dry              | PT   |             |   | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. |
|                      |                  |           |                  | OL   |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with UNDorg.                   |   |
|                      |                  |           |                  | SP   |             | fine to coarse SAND, trace fine to medium gravel, (5Y 5/1) gray, medium dense, moist, no odor, no staining. Soils consistent with UNDo.                                     |   |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDo - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:24

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611438.73 |
| <b>Date Started Drilling:</b> 5/5/2016 11:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682950.02 |
| <b>Date Finished Drilling:</b> 5/5/2016 12:20:00 PM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 10.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID  |   |                        |
|----------------------|------------------|-----------|------------------|---------|-------------|--|--|---|------------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |  |   |                        |
| 1                    | 4                |           | dry              | FILL    |             | CINDERS, some COPR (80%), (5YR 3/4) dark reddish brown, loose, dry, no odor, no staining.  | P4-HSN-AA13A-1.1-1.6   |   |                        |
| 2                    |                  |           | slightly moist   | FILL    |             |  | ASH, some cinders, little wood, trace shells, (7.5YR 5/1) gray, loose, slightly moist, no odor, no staining. | P4-HSN-AA13A-3.0-3.5  |                        |
| 3                    |                  |           |                  |         |             |  |  |   |                        |
| 4                    |                  |           |                  |         | NR          |  | NO RECOVERY  |   |                        |
| 5                    | 5                | 0.0       | slightly moist   | FILL    |             | ASH, some cinders, little wood, trace fill debris, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining, water at 6.7 feet bgs.              | P4-HSN-AA13A-5.0-5.5   |   |                        |
| 6                    |                  |           |                  |         |             |  |  |   | P4-HSN-AA13A-7.0-7.5   |
| 7                    |                  |           |                  |         |             |  |  |   |                        |
| 8                    |                  |           |                  |         |             |  |  |   |                        |
| 9                    |                  |           |                  |         |             |  |  |   |                        |
| 10                   | 5                | 0.0       | wet to saturated | FILL    |             | fine SAND, little silt and fine to medium gravel, (5YR 4/3) reddish brown, loose, wet to saturated, no odor, no staining.                                  | P4-HSN-AA13A-9.0-9.5   |   |                        |
| 11                   |                  |           |                  |         |             |  |  |   | P4-HSN-AA13A-11.0-11.5 |
| 12                   |                  |           |                  |         |             |  |  |   |                        |
| 13                   |                  |           |                  |         |             |  |  |   |                        |
| 14                   |                  |           |                  |         |             |  |  |   |                        |
| 15                   | 4                | 0.0       | moist            | PT      |             | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown, moist, no odor, no staining. Soils consistent with MM. | P4-HSN-AA13A-15.0-15.5   |   |                        |
| 16                   |                  |           | moist to wet     | OL      |             |  |  | Organic SILT, (90% organic silt, 10% organic fibers) (10YR 4/2) dark grayish brown, moist to wet, no odor, or staining. Soils consistent with UNDorg. |                        |
| 17                   |                  |           |                  |         |             |  |  |   |                        |
| 18                   |                  |           |                  |         |             |  |  |   |                        |
| 19                   |                  |           |                  | NR      |             | NO RECOVERY  |  |   |                        |
| 20                   |                  |           |                  |         |             |  |  |   |                        |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS            |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push     | <b>Coordinates (NJSPNAD83) x:</b> 611421.43 |
| <b>Date Started Drilling:</b> 5/4/2016 9:55:00 AM   | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 682922.33 |
| <b>Date Finished Drilling:</b> 5/4/2016 10:45:00 AM | <b>Core Size:</b> 3.5 in                | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Michael Irving                    | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |   | <b>Surface Elevation:</b> 11.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID              |                        |
|----------------------|------------------|-----------|------------------|---------|-------------|--|------------------------|------------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base  |                        |                        |
| 1                    | 5                | 0.0       | slightly moist   | FILL    |             | CINDERS, trace brick, coal and concrete, (5YR 2.5/1) black, loose, slightly moist, no odor, no staining.   | P4-HSN-AA14A-0.7-1.2   |                        |
| 2                    |                  |           | slightly moist   | FILL    |             | ASH, some cinders, little coal and wood, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.   | P4-HSN-AA14A-2.0-2.5   |                        |
| 3                    |                  |           |                  |         |             |  |                        |                        |
| 4                    |                  |           |                  |         |             |  | P4-HSN-AA14A-4.0-4.5   |                        |
| 5                    | 5                | 0.0       | wet              | FILL    |             | ASH, some cinders, little ceramics and wood, (7.5YR 5/1) gray, loose, wet, no odor, no staining, water at 5.7 feet bgs.  | P4-HSN-AA14A-6.0-6.5   |                        |
| 6                    |                  |           |                  |         |             |  |                        |                        |
| 7                    |                  |           |                  |         |             |  |                        |                        |
| 8                    |                  |           |                  |         |             |  | P4-HSN-AA14A-8.0-8.5   |                        |
| 9                    |                  |           |                  |         |             |  |                        |                        |
| 10                   | 4.5              | 3.9       | wet              | FILL    |             | ASH, some cinders, little ceramics and wood, (7.5YR 5/1) gray, loose, wet, no odor, no staining.   | P4-HSN-AA14A-10.0-10.5 |                        |
| 11                   |                  |           | wet to saturated | FILL    |             | SILT, some fine to medium sand, little fine gravel, (5YR 4/3) reddish brown, wet to saturated, no odor, no staining, light sheen.                                      | P4-HSN-AA14A-12.0-12.5 |                        |
| 12                   |                  |           |                  |         |             |  |                        | P4-HSN-AA14A-12.7-13.2 |
| 13                   |                  |           | moist            | PT      |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-AA14A-13.2-13.7 |                        |
| 14                   |                  |           |                  | NR      |             | NO RECOVERY  |                        |                        |
| 15                   | 4                | 0.0       | moist            | PT      |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM. |                        |                        |
| 16                   |                  |           |                  |         |             |  |                        |                        |
| 17                   |                  |           | wet              | SP-SM   |             | silty fine SAND, trace gravel, (7.5YR 5/1) gray, dense, wet, no odor, no staining. Soils consistent with UNDno.  |                        |                        |
| 18                   |                  |           |                  | NR      |             | NO RECOVERY  |                        |                        |
| 19                   |                  |           |                  |         |             |  |                        |                        |
| 20                   |                  |           |                  |         |             |  |                        |                        |

**Notes:**  
bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611409.05 |
| <b>Date Started Drilling:</b> 5/3/2016 8:00:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682893.08 |
| <b>Date Finished Drilling:</b> 5/3/2016 9:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> SP                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.2 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID              |  |
|----------------------|------------------|-----------|------------------|---------|-------------|--|------------------------|--|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base  |                        |  |
| 1                    | 5                |           | moist            | FILL    |             | fine to medium SAND, little gravel, (7.5YR 5/2) brown, non plastic, loose, moist, no odor, no staining.  | P4-HSN-AA15A-1.5-2.0   |  |
| 2                    |                  |           | moist            | FILL    |             |  |                        | fine SAND, and gravel, (7.5YR 4/2) brown, non plastic, loose, moist, no odor, no staining.                 |
| 3                    |                  |           | dry              | FILL    |             |  |                        | crushed ASPHALT, (7.5YR 2.5/1) black, non plastic, hard, dry, no odor, no staining.                        |
| 4                    |                  |           | moist            | FILL    |             |  |                        | CLAY, some gravel, (7.5YR 5/1) gray, low plasticity, moist, no odor, no staining.                          |
| 5                    |                  |           | dry              | FILL    |             |  |                        | coarse sandy GRAVEL, (5YR 4/4) reddish brown, non plastic, loose, dry, no odor, no staining.               |
| 6                    | 5                | 0.0       | moist            | FILL    |             | fine to medium SAND, trace coal, (5YR 4/4) reddish brown, non plastic, loose, dry, no odor, no staining.   | P4-HSN-AA15A-5.5-6.0   |  |
| 7                    |                  |           |                  |         |             |  |                        |  |
| 8                    |                  |           |                  |         |             |  |                        |  |
| 9                    |                  |           | moist            | FILL    |             | fine to medium sandy SILT, trace gravel, (7.5YR 2.5/1) black, low plasticity, medium soft, moist, no odor, no staining.                                  | P4-HSN-AA15A-7.5-8.0   |  |
| 10                   | 5                | 0.0       | moist            | FILL    |             | fine to medium sandy SILT, (7.5YR 5/1) gray, non plastic, medium soft, moist, no odor, no staining.  | P4-HSN-AA15A-9.5-10.0  |  |
| 11                   |                  |           | moist            | FILL    |             |  |                        | fine to coarse SAND, some gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, no odor, no staining.    |
| 12                   |                  |           | moist            | FILL    |             |  |                        | fine sandy SILT, some gravel, (7.5YR 5/2) brown, low plasticity, medium soft, moist, no odor, no staining. |
| 13                   |                  |           | saturated        | FILL    |             |  |                        | fine sandy SILT, trace gravel, (5YR 4/4) reddish brown, low plasticity, saturated, no odor, no staining.   |
| 14                   |                  |           |                  |         |             |  |                        |  |
| 15                   | 5                | 0.0       | dry              | PT      |             | PEAT (60% silt, 40% organic fibers), (7.5YR 4/2) brown, low plasticity, medium dense, dry, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-AA15A-15.0-15.5 |  |
| 16                   |                  |           |                  |         |             |  |                        |  |
| 17                   |                  |           |                  |         |             |  |                        |  |
| 18                   |                  |           |                  |         |             |  |                        |  |
| 19                   |                  |           | dry              | ML      |             | inorganic fine SILT, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. Soils consistent with UNDno.  |                        |  |
| 20                   | 1                | 0.0       |                  |         |             |  |                        |  |
| 21                   |                  |           |                  |         |             |  |                        |  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT - 10/4/16 09:24

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611391.81 |
| <b>Date Started Drilling:</b> 5/4/2016 9:45:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682868.42 |
| <b>Date Finished Drilling:</b> 5/4/2016 11:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log  | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|---------|--|---|------------------------|
|                      |                  | 0.0       |                  | ASPHALT |  | Asphalt and gravel sub-base.  |                        |
| 1                    | 5                |           | dry              | FILL    |  | fine to coarse SAND, some ash, trace gravel, (2.5Y 5/2) grayish brown, dry, no odor, no staining.   | P4-HSN-AA16A-0.5-1.0   |
| 2                    |                  | dry       | FILL             |         | fine to coarse SAND, some gravel, little wood, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.                           |   | P4-HSN-AA16A-2.5-3.0   |
| 3                    |                  |           |                  |         |  |   |                        |
| 4                    |                  |           |                  |         |  |   |                        |
| 5                    |                  |           |                  |         |  |   |                        |
| 6                    | 4                | 6.0       | moist            | FILL    |  | fine to medium SAND, trace ash, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.   |                        |
| 7                    |                  | moist     | FILL             |         | silty SAND, little wood, trace ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  | P4-HSN-AA16A-6.5-7.0  |                        |
| 8                    |                  | wet       | FILL             |         | Ash, some brick and concrete, little wood, (5Y 2.5/1) black, loose, wet, slight petroleum odor, no staining, sheen, water at 8.0 feet bgs. |   |                        |
| 9                    |                  |           |                  |         | NR   |   | P4-HSN-AA16A-8.5-9.0   |
| 10                   |                  |           |                  |         |  |   |                        |
| 11                   | 5                | 3.0       | wet              | FILL    |  | Ash, little brick and concrete, (5Y 2.5/1) black, loose, wet, slight petroleum odor, no staining, sheen.  | P4-HSN-AA16A-10.5-11.0 |
| 12                   |                  | moist     | FILL             |         | Silt, some ash, little wood, (5YR 2.5/1) black, loose, moist, no odor, no staining.  |   |                        |
| 13                   |                  | wet       | FILL             |         | silty SAND, trace ceramics, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.  | P4-HSN-AA16A-12.5-13.0  |                        |
| 14                   |                  |           |                  |         |  |   |                        |
| 15                   |                  |           |                  |         |  |   |                        |
| 16                   | 5                | 0.0       | dry              | PT      |  | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-AA16A-15.0-15.5 |
| 17                   |                  | moist     | OL               |         | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.    |   |                        |
| 18                   |                  |           |                  |         |  |   |                        |
| 19                   |                  |           |                  |         |  |   |                        |
| 20                   |                  |           |                  |         |  |   |                        |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> macrocores         | <b>Coordinates (NJSPNAD83) x:</b> 611371.09 |
| <b>Date Started Drilling:</b> 5/4/2016 11:55:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682841.74 |
| <b>Date Finished Drilling:</b> 5/4/2016 12:30:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID  |
|----------------------|------------------|-----------|------------------|---------|-------------|---|--|
| 1-4                  | 4                | 0.0       |                  | ASPHALT |             | Asphalt, gravel sub-base and concrete.  |  |
|                      |                  |           | dry              | FILL    |             | fine to medium SAND, little ash, trace glass, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.                       |  |
|                      |                  |           |                  | NR      |             | NO RECOVERY   |  |
| 5-8                  | 5                | 0.0       | moist            | FILL    |             | fine to medium SAND, some ash, little wood, (2.5Y 4/2) dark grayish brown, medium dense, moist, no odor, no staining.                 |  |
|                      |                  |           | wet              | FILL    |             | Ash, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, light sheen, water at 7.0 feet bgs.                                     |  |
| 10-13                | 5                | 2.0       | wet              | FILL    |             | Ash, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, light sheen.  | P4-HSN-AA17A-9.0-9.5   |
|                      |                  |           | dry              | FILL    |             |   |  |
|                      |                  |           | wet              | FILL    |             | silty SAND, trace brick and concrete, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                               | P4-HSN-AA17A-12.0-12.5   |
| 15-16                | 5                | 0.0       | wet              | FILL    |             | silty SAND, trace brick and concrete, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                               | P4-HSN-AA17A-15.0-15.5   |
|                      |                  |           | slightly moist   | OL      |             |   | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. |
| 19-20                |                  |           | dry              | PT      |             | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, no odor, no staining. Soils consistent with MM. |  |
|                      |                  |           | moist            | OL      |             |   |  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611353.59 |
| <b>Date Started Drilling:</b> 5/5/2016 9:50:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682814.29 |
| <b>Date Finished Drilling:</b> 5/5/2016 10:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID  |                        |
|----------------------|------------------|-----------|------------------|------|-------------|---|--|------------------------|
| 1-4                  | 4                | 0.0       | dry              | FILL |             | Asphalt, (5Y 2.5/1) black, dry, no odor, no staining.   |  |                        |
|                      |                  |           | dry              | FILL |             | fine to coarse SAND, some ash, brick and concrete, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.                |  |                        |
|                      |                  |           | dry to moist     | FILL |             | fine to coarse SAND, little gravel, glass and ash, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining. |  |                        |
|                      |                  |           |                  | NR   |             | NO RECOVERY   |  |                        |
| 5-10                 | 5                | 0.0       | moist to wet     | FILL |             | fine SAND, some wood, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 5.7 feet bgs.       | P4-HSN-AA18A-3.5-4.0   |                        |
|                      |                  |           | wet              | FILL |             | Cinders, some silt, little ceramics, little wood, (5Y 2.5/1) black, loose, wet, no odor, no staining.                         | P4-HSN-AA18A-5.5-6.0   |                        |
|                      |                  |           |                  | FILL |             | Ash, little wood, trace glass, (5YR 4/1) dark gray, loose, wet, no odor, no staining.   | P4-HSN-AA18A-7.5-8.0   |                        |
|                      |                  |           |                  |      |             |   | P4-HSN-AA18A-9.5-10.0  |                        |
| 11-14                | 4                | 0.0       | wet              | FILL |             | Ash, little wood, trace glass, (5YR 4/1) dark gray, loose, wet, no odor, no staining.   |  |                        |
|                      |                  |           | wet              | FILL |             | Silt, (7.5YR 4/2) brown, soft, wet, no odor, no staining, sheen.  |  |                        |
|                      |                  |           |                  |      |             |   |  | P4-HSN-AA18A-12.5-13.0 |
|                      |                  |           | wet              | FILL |             | silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   |  |                        |
| 15-20                | 5                | 0.0       |                  |      |             |   | P4-HSN-AA18A-15.0-15.5   |                        |
|                      |                  |           | wet              | FILL |             | Silt, some organics, trace fine sand, ash and fill debris, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining.        | P4-HSN-AA18A-15.5-16.0   |                        |
|                      |                  |           | dry              | PT   |             |   | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-AA18A-16.0-16.5 |
|                      |                  |           | dry              | OL   |             |   | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with UNDorg.                              |                        |
|                      |                  |           | dry              | PT   |             |   | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. |                        |
|                      |                  |           | moist            | OL   |             |   | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.                            |                        |
|                      |                  |           |                  |      |             |   |  |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromium chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:24

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611507.13 |
| <b>Date Started Drilling:</b> 5/9/2016 11:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683014.69 |
| <b>Date Finished Drilling:</b> 5/9/2016 12:15:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.5 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log  | Surface Cover and Thickness:   | Sample ID              |       |      |             |   |
|----------------------|------------------|-----------|------------------|---------|--|--|------------------------|-------|------|-------------|---|
| 1-2                  | 5                | 0.0       |                  | ASPHALT |  | Asphalt and subbase, (5YR 2.5/1) black, dry, no odor, no staining.   |                        |       |      |             |   |
|                      |                  |           | wet              | FILL    |  | GGM (100%), (2.5Y 5/1) gray, very soft, wet, no odor, green staining.  |                        |       |      |             |   |
|                      |                  |           | dry              | FILL    |  | fine to coarse SAND, little COPR (25%), (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.  |                        |       |      |             |   |
| 2-3                  |                  |           |                  |         | Ash, little coal, trace ceramics, (2.5Y 5/1) gray, loose, dry, no odor, no staining. |  |                        |       |      |             |   |
| 3-5                  |                  |           |                  |         |  |  | P4-HSN-BB10A-4.0-4.5   |       |      |             |   |
| 5-6                  | 4                | 2.0       | moist to wet     | FILL    |  | Ash, little coal and wood, trace glass, (5Y 5/1) gray, loose, moist to wet, slight MGP-like odor, no staining, light sheen, water at 6.0 feet bgs.                         | P4-HSN-BB10A-6.0-6.5   |       |      |             |   |
| 6-8                  |                  |           |                  |         |  |  |                        |       |      |             | P4-HSN-BB10A-8.0-8.5  |
| 8-9                  |                  |           |                  |         |  |  |                        | NR    |      | NO RECOVERY |   |
| 9-10                 |                  |           |                  |         |  |  |                        |       |      |             |   |
| 10-11                | 5                | 23.7      | saturated        | FILL    |  | Ash, little fine to medium gravel and wood, trace ceramics, (7.5YR 4/2) brown, loose, saturated, MGP-like odor and staining, sheen.  | P4-HSN-BB10A-10.0-10.5 |       |      |             |   |
| 11-12                |                  |           |                  |         |  |  | 7.5                    | wet   | FILL |             | silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, MGP-like odor and staining, sheen.  |
| 12-13                |                  |           |                  |         |  |  |                        |       |      |             |   |
| 13-14                |                  |           |                  |         |  |  | P4-HSN-BB10A-14.0-14.5 |       |      |             |   |
| 14-15                |                  |           |                  |         |  |  | P4-HSN-BB10A-14.5-15.0 |       |      |             |   |
| 15-16                | 4                | 1.0       | dry              | PT      |  | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 4/3) reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-BB10A-15.0-15.5 |       |      |             |   |
| 16-17                |                  |           |                  |         |  |  |                        | moist | OL   |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg. |
| 17-18                |                  |           |                  |         |  |  |                        | wet   | SP   |             | fine to medium SAND, little fine gravel, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                             |
| 18-19                |                  |           |                  |         |  |  |                        |       | NR   |             | NO RECOVERY   |
| 19-20                |                  |           |                  |         |  |  |                        |       |      |             |   |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> GEOPROBE           | <b>Coordinates (NJSPNAD83) x:</b> 611485.22 |
| <b>Date Started Drilling:</b> 5/3/2016 10:10:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682988.55 |
| <b>Date Finished Drilling:</b> 5/3/2016 10:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> SP                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.4 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|------|-------------|---|------------------------|
| 1-2                  | 5                | 0.0       |                  | FILL |             | ASPHALT and gravel sub-base.  |                        |
|                      |                  |           | dry              | FILL |             | fine to coarse SAND, little COPR (10%), (5YR 4/4) reddish brown, non plastic, loose, dry, no odor, no staining.   |                        |
|                      |                  |           | dry              | FILL |             | fine to medium SAND, little ash, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.  | P4-HSN-BB11A-1.2-1.7   |
|                      |                  |           | moist            | FILL |             | CINDERS, trace fine to medium gravel and fill debris, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.  | P4-HSN-BB11A-2.0-2.5   |
| 3-5                  | 5                | 23.0      |                  |      |             |   | P4-HSN-BB11A-4.0-4.5   |
|                      |                  |           |                  |      |             |   |                        |
| 6-7                  | 5                | 23.0      | moist to wet     | FILL |             | medium to coarse SAND, some cinders and fine gravel, trace debris, (5YR 4/1) dark gray, non plastic, loose, moist to wet, slight petroleum odor, product staining, water at 9.0 feet bgs. | P4-HSN-BB11A-6.0-6.5   |
|                      |                  |           |                  |      |             |   |                        |
| 8-10                 | 5                | 47.0      |                  |      |             |   | P4-HSN-BB11A-10.0-10.5 |
|                      |                  |           |                  |      |             |   |                        |
| 11-12                | 5                | 47.0      | saturated        | FILL |             | fine to coarse SAND, some cinders, (7.5YR 2.5/1) black, low plasticity, medium soft, saturated, moderate petroleum odor, product staining.  | P4-HSN-BB11A-12.0-12.5 |
|                      |                  |           |                  |      |             |   |                        |
| 13-14                | 5                | 47.0      |                  |      |             |   |                        |
|                      |                  |           |                  |      |             |   |                        |
| 15-16                | 5                | 0.0       | moist            | SM   |             | fine to medium sandy SILT, trace fine gravel, (5YR 4/4) reddish brown, low plasticity, medium dense, moist, slight petroleum odor, minor product staining. Soils consistent with UNDno.   | P4-HSN-BB11A-14.0-14.5 |
|                      |                  |           |                  |      |             |   |                        |
| 17-19                | 5                | 0.0       | dry              | PT   |             | PEAT (60% silt, 40% organic fibers), (7.5YR 4/2) brown, low plasticity, medium soft, dry, slight organic odor, no staining. Soils consistent with MM.                                     | P4-HSN-BB11A-15.0-15.5 |
|                      |                  |           |                  |      |             |   |                        |
| 20-21                | 1                | 0.0       | moist            | SM   |             | fine silty SAND, little gravel, (5YR 4/1) dark gray, medium dense, moist, no odor, no staining. Soils consistent with UNDno.  |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG LOGS - A.GDT. - 10/4/16 09:25

|  |  |  |
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| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611471.88  |
| <b>Date Started Drilling:</b> 5/2/2016 11:35:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682961.763 |
| <b>Date Finished Drilling:</b> 5/2/2016            | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 20 ft             |
| <b>Logged By:</b>                                  | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                    |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.5 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID   |                        |
|----------------------|------------------|-----------|------------------|---------|-------------|---|---|------------------------|
| 1                    | 5                |           |                  | ASPHALT |             | ASPHALT, gravel sub-base.   |   |                        |
| 2                    |                  |           | slightly moist   | FILL    |             | fine to medium SAND, trace COPR(5%), (5YR 3/3) dark reddish brown, slightly moist, no odor, no staining.<br>ASH, some cinders, little wood fragments, (7.5YR 4/1) dark gray, moist, slight petroleum odor, no staining. | P4-HSN-BB12A-1.3-1.8  |                        |
| 3                    |                  |           | moist            | FILL    |             |   | P4-HSN-BB12A-2.0-2.5  |                        |
| 4                    |                  |           |                  |         |             |   |   | P4-HSN-BB12A-4.0-4.5   |
| 5                    | 4                |           | moist            | FILL    |             | ASH, some cinders, little wood fragments, (7.5YR 4/1) dark gray, moist, slight petroleum odor, no staining.   | P4-HSN-BB12A-6.0-6.5  |                        |
| 6                    |                  |           |                  |         |             |   |   | P4-HSN-BB12A-8.0-8.5   |
| 7                    |                  |           |                  |         |             |   |   |                        |
| 8                    |                  |           |                  | NR      |             | NO RECOVERY   |   |                        |
| 9                    | 5                |           | wet              | FILL    |             | silty fine to medium SAND, (5YR 4/4) reddish brown, loose, wet, slight petroleum odor, no staining, sheen, wet @ 10.0' bgs.   | P4-HSN-BB12A-10.0-10.5  |                        |
| 10                   |                  |           |                  |         |             |   |   | P4-HSN-BB12A-12.0-12.5 |
| 11                   |                  |           |                  |         |             |   |   | P4-HSN-BB12A-14.0-14.5 |
| 12                   |                  |           |                  |         |             |   |   |                        |
| 13                   | 5                |           | wet              | FILL    |             | silty fine to medium SAND, (5YR 4/4) reddish brown, loose, wet, slight petroleum odor, no staining, sheen.  | P4-HSN-BB12A-15.2-15.7  |                        |
| 14                   |                  |           | moist            | PT      |             |   | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/4) dark brown, stiff, moist, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-BB12A-15.7-16.2 |
| 15                   |                  |           | moist            | SP      |             | fine to coarse SAND, (10YR 5/2) grayish brown, slight mottling, moist, no odor, no staining. Soils consistent with UNDno.   |   |                        |
| 16                   |                  |           |                  |         |             |   |   |                        |
| 17                   |                  |           |                  |         |             |   |   |                        |
| 18                   |                  |           |                  |         |             |   |   |                        |
| 19                   |                  |           |                  |         |             |   |   |                        |
| 20                   |                  |           |                  |         |             |   |   |                        |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

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|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> GEOPROBE           | <b>Coordinates (NJSPNAD83) x:</b> 611458.32 |
| <b>Date Started Drilling:</b> 5/3/2016 9:20:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682934.83 |
| <b>Date Finished Drilling:</b> 5/3/2016 10:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> SP                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID              |                      |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------------|----------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                        |                      |
| 1                    | 5                | 0.0       | dry              | FILL    |             | fine to coarse SAND, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.  | P4-HSN-BB13A-0.5-1.0   |                      |
| 2                    |                  |           | dry              | FILL    |             | CINDERS, trace glass, ceramics and wood fragments, (7.5YR 5/1) gray, non plastic, loose, dry, no odor, no staining.   | P4-HSN-BB13A-2.0-2.5   |                      |
| 3                    |                  |           |                  |         |             |   |                        |                      |
| 4                    |                  |           |                  |         |             |   |                        | P4-HSN-BB13A-4.0-4.5 |
| 5                    | 5                | 0.0       | moist            | FILL    |             | CINDERS, trace gravel, ceramics and fill debris, (7.5YR 2.5/1) black, non plastic, loose, moist, slight petroleum odor at 10.0 feet, no staining, water at 10.0 feet bgs. |                        |                      |
| 6                    |                  |           |                  |         |             |   |                        | P4-HSN-BB13A-6.0-6.5 |
| 7                    |                  |           |                  |         |             |   |                        |                      |
| 8                    |                  |           |                  |         |             |   |                        | P4-HSN-BB13A-8.0-8.5 |
| 9                    |                  |           |                  |         |             |   |                        |                      |
| 10                   | 5                | 0.0       |                  |         |             |   | P4-HSN-BB13A-10.0-10.5 |                      |
| 11                   |                  |           |                  |         |             |   |                        |                      |
| 12                   |                  |           | moist            | MH      |             | fine sandy SILT, trace coarse gravel, (5YR 4/4) reddish brown, low plasticity, medium soft, moist, no odor, no staining. Soils consistent with UNDno.                     | P4-HSN-BB13A-12.0-12.5 |                      |
| 13                   |                  |           |                  |         |             |   |                        |                      |
| 14                   |                  |           |                  |         |             |   | P4-HSN-BB13A-14.0-14.5 |                      |
| 15                   | 5                | 0.0       | moist            | PT      |             | PEAT (50% silt, 50% organic fibers), (7.5YR 4/2) brown, low plasticity, moist, moderate organic odor, no staining. Soils consistent with MM.                              | P4-HSN-BB13A-15.0-15.5 |                      |
| 16                   |                  |           |                  |         |             |   |                        |                      |
| 17                   |                  |           |                  |         |             |   |                        |                      |
| 18                   |                  |           | moist            | SM      |             | sandy SILT, trace fine gravel, (7.5YR 5/1) gray, medium plasticity medium dense, moist, no odor, no staining. Soils consistent with UNDno.                                |                        |                      |
| 19                   |                  |           |                  |         |             |   |                        |                      |
| 20                   | 1                | 0.0       |                  |         |             |   |                        |                      |
| 21                   |                  |           |                  |         |             |   |                        |                      |

**Notes:**  
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 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT - 10/4/16 09:25



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| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                    | <b>Drilling Method:</b> Direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611459.155 |
| <b>Date Started Drilling:</b> 5/9/2017 9:00:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682934.747 |
| <b>Date Finished Drilling:</b> 5/9/2017 9:25:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft             |
| <b>Logged By:</b> S. Peters                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> 6.0 ft                |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.5 ft NAVD88     |


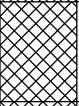
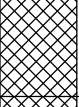
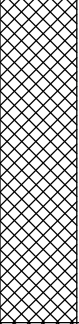
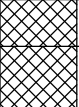

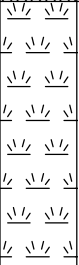

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID               |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-------------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base   |                         |
| 1                    | 5                | 0.0       | dry to moist     | FILL    |             | fine to medium SAND, some ash, trace fill debris, (5YR 4/1) dark gray, dense, dry to moist, no odor, no staining.                                   |                         |
| 2                    |                  |           |                  |         |             |   |                         |
| 3                    |                  |           |                  |         |             |   |                         |
| 4                    | 5                | 0.0       | moist to wet     | FILL    |             | CINDERS, trace medium gravel, wood and fill debris, (5YR 6/1) gray, loose, moist to wet, no odor, no staining, water at 6.0 feet.                   |                         |
| 5                    |                  |           |                  |         |             |   |                         |
| 6                    |                  |           |                  |         |             |   |                         |
| 7                    | 5                | 0.0       | moist to wet     | SM      |             | fine to medium sandy SILT, trace fine gravel, (7.5YR 6/3) light brown, dense, moist, no odor, no staining. Soils consistent with UNDno.             |                         |
| 8                    |                  |           |                  |         |             |   |                         |
| 9                    |                  |           |                  |         |             |   |                         |
| 10                   | 5                | 0.0       | moist to wet     | SP      |             | medium SAND, trace medium to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.                 |                         |
| 11                   |                  |           |                  |         |             |   |                         |
| 12                   |                  |           |                  |         |             |   |                         |
| 13                   | 5                | 0.0       | moist            | OL      |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, firm, moist, slight organic odor, no staining. Soils consistent with UNDorg. | P4-HSN-BB13AR-15.0-15.5 |
| 14                   |                  |           |                  |         |             |   |                         |
| 15                   |                  |           |                  |         |             |   |                         |
| 16                   | 5                | 0.0       | dry              | SM      |             | fine to medium silty SAND, trace fine gravel, (7.5YR 6/1) gray, dense, dry, no odor, no staining. Soils consistent with UNDno.                      |                         |
| 17                   |                  |           |                  |         |             |   |                         |
| 18                   |                  |           |                  |         |             |   |                         |
| 19                   | 5                | 0.0       | moist            | SP      |             | medium to coarse SAND, trace medium gravel, (5YR 6/1) gray, dense, moist, no odor, no staining. Soils consistent with UNDno.                        |                         |
| 20                   |                  |           |                  |         |             |   |                         |

**Notes:**  
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 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A\_GDT - 5/17/17 10:24

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| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS            |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Direct Push     | <b>Coordinates (NJSPNAD83) x:</b> 611443.59 |
| <b>Date Started Drilling:</b> 5/4/2016 8:50:00 AM  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 682909.92 |
| <b>Date Finished Drilling:</b> 5/4/2016 9:40:00 AM | <b>Core Size:</b> 3.5 in                | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Michael Irving                   | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |   | <b>Surface Elevation:</b> 11.5 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log   | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|--------------|---|---|------------------------|
| 1                    | 5                | 0.0       |                  | ASPHALT FILL |    | ASPHALT   |                        |
| 2                    |                  |           | slightly moist   | FILL         |    | CINDERS, some ash, little coal fragments and fine to medium sand, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, no odor, no staining.                            |                        |
| 3                    |                  |           | slightly moist   | FILL         |    | ASH, some cinders, coal and wood, (7.5YR 3/1) very dark gray, loose, slightly moist, no odor, no staining.  | P4-HSN-BB14A-3.5-4.0   |
| 4                    | 5                | 0.0       | wet              | FILL         |   | ASH, some fine to medium gravel, little fine to medium sand, trace wood, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, water at 6.5 feet bgs.                      | P4-HSN-BB14A-5.5-6.0   |
| 5                    |                  |           |                  |              |   |   | P4-HSN-BB14A-7.5-8.0   |
| 6                    |                  |           |                  |              |   |   | P4-HSN-BB14A-9.5-10.0  |
| 7                    |                  |           |                  |              |   |   | P4-HSN-BB14A-11.5-12.0 |
| 8                    | 5                | 0.0       | wet              | FILL         |  | ASH, some fine to medium gravel, little fine to medium sand, trace wood, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.   | P4-HSN-BB14A-11.5-12.0 |
| 9                    |                  |           | wet              | FILL         |  | SILT, some fine to medium sand, trace fine gravel, (5YR 4/4) reddish brown, soft, wet, no odor, no staining.  | P4-HSN-BB14A-13.5-14.0 |
| 10                   |                  |           |                  |              |   |   | P4-HSN-BB14A-14.5-15.0 |
| 11                   |                  |           |                  |              |   |   | P4-HSN-BB14A-15.0-15.5 |
| 12                   |                  |           |                  |              |   |   |                        |
| 13                   | 5                | 0.0       | moist            | PT           |  | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-BB14A-15.0-15.5 |
| 14                   |                  |           |                  |              |   |   |                        |
| 15                   |                  |           | moist            | SP-SM        |  | fine SAND, trace organic silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. Soils consistent with UNDno.  |                        |
| 16                   |                  |           |                  |              |   |   |                        |
| 17                   |                  |           |                  |              |   |   |                        |
| 18                   |                  |           |                  |              |   |   |                        |
| 19                   |                  |           |                  |              |   |   |                        |
| 20                   |                  |           |                  |              |   |   |                        |

**Notes:**  
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 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave             | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611424.26 |
| <b>Date Started Drilling:</b> 5/5/2016 9:10:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682879.45 |
| <b>Date Finished Drilling:</b> 5/5/2016           | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                              | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI        |  | <b>Surface Elevation:</b> 12.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID              |                        |                        |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------------|------------------------|------------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                        |                        |                        |
| 1                    | 5                |           | slightly moist   | FILL    |             | CINDERS, some ash, little fine to medium sand and coal, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.   | P4-HSN-BB15A-0.5-1.0   |                        |                        |
| 2                    |                  |           |                  |         |             |   | P4-HSN-BB15A-2.0-2.5   |                        |                        |
| 3                    |                  |           |                  |         |             |   |                        | P4-HSN-BB15A-4.0-4.5   |                        |
| 4                    |                  |           |                  |         |             |   |                        |                        |                        |
| 5                    | 4                | 0.0       | moist            | FILL    |             | ASH, little cinders, trace silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.   | P4-HSN-BB15A-6.0-6.5   |                        |                        |
| 6                    |                  |           |                  |         |             |   |                        |                        |                        |
| 7                    |                  |           |                  |         |             |   |                        |                        |                        |
| 8                    |                  |           | wet              | FILL    |             | silty fine to medium SAND, little fine to medium gravel, (10YR 4/2) dark grayish brown, moist, no odor, no staining, water at 6.3 feet bgs.   | P4-HSN-BB15A-8.0-8.5   |                        |                        |
| 9                    |                  |           |                  | NR      |             | NO RECOVERY   |                        |                        |                        |
| 10                   | 5                | 0.0       | wet              | FILL    |             | silty fine to coarse SAND, little ash, (10YR 3/6) dark yellowish brown, dense, wet, no odor, no staining.   | P4-HSN-BB15A-10.0-10.5 |                        |                        |
| 11                   |                  |           |                  |         |             |   |                        |                        |                        |
| 12                   |                  |           |                  |         |             |   |                        |                        | P4-HSN-BB15A-12.0-12.5 |
| 13                   |                  |           | wet              | FILL    |             | fine to medium SAND, some silt, trace fine gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining.   |                        |                        |                        |
| 14                   |                  |           |                  |         |             |   | P4-HSN-BB15A-14.0-14.5 |                        |                        |
| 15                   | 5                | 0.0       | wet              | FILL    |             | fine to medium SAND, some silt, trace fine gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining.<br>PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-BB15A-14.8-15.3 |                        |                        |
| 16                   |                  |           |                  | moist   | PT          |   |                        | P4-HSN-BB15A-15.3-15.8 |                        |
| 17                   |                  |           |                  |         |             |   |                        |                        |                        |
| 18                   |                  |           |                  |         |             |   |                        |                        |                        |
| 19                   |                  |           |                  |         |             |   |                        |                        |                        |
| 20                   |                  |           |                  |         |             |   |                        |                        |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611583    |
| <b>Date Started Drilling:</b> 5/11/2016 9:50:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683106.46 |
| <b>Date Finished Drilling:</b> 5/11/2016 11:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 10.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID   |   |                       |
|----------------------|------------------|-----------|------------------|------|-------------|---|---|---|-----------------------|
| 1                    | 3.5              | 0.0       | moist            | FILL |             | DGA, (2.5Y 5/1) gray, medium dense, moist, no odor, no staining.  |   |   |                       |
| 2                    |                  |           | moist            | FILL |             | fine to coarse SAND, little ash, trace coal, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.                              | P4-HSN-CC6A-1.5-2.0   |   |                       |
| 3                    |                  |           | moist to wet     | FILL |             |   | fine to coarse SAND, some ash, (2.5Y 5/2) grayish brown, medium dense, moist to wet, no odor, no staining.                        | P4-HSN-CC6A-3.5-4.0   |                       |
| 4                    |                  |           |                  | NR   |             |   |   | NO RECOVERY   |                       |
| 5                    | 5                | 200       | wet              | FILL |             | Ash, some fine to medium sand, (7.5YR 4/2) brown, loose, wet, slight MGP-like odor, no staining, water at 5.0 feet bgs.                 | P4-HSN-CC6A-5.5-6.0   |   |                       |
| 6                    |                  |           | wet              | FILL |             |   | Cinders, little fine gravel, trace fine sand and silt, (7.5YR 2.5/1) black, loose, wet, moderate MGP-like odor, product staining. | P4-HSN-CC6A-7.5-8.0   |                       |
| 7                    |                  |           |                  |      |             |   |   |   |                       |
| 8                    |                  |           |                  |      |             |   |   |   |                       |
| 9                    |                  |           |                  |      |             |   |   |   |                       |
| 10                   | 5                | 380       | wet              | FILL |             | Cinders, trace fine gravel, (5Y 2.5/1) black, loose, wet, moderate MGP-like odor, product staining.                                     | P4-HSN-CC6A-9.5-10.0  |   |                       |
| 11                   |                  |           |                  |      |             |   |   |   |                       |
| 12                   |                  |           |                  |      |             |   |   |   |                       |
| 13                   |                  |           |                  |      |             |   |   |   |                       |
| 14                   |                  | 95        | moist            | FILL |             | fine to medium SAND, little silt and coarse gravel, (7.5YR 4/2) brown, medium dense, moist, slight MGP-like odor, no staining.          | P4-HSN-CC6A-12.5-13.0   |   |                       |
| 15                   |                  | 0.0       | dry to moist     | PT   |             |   |   | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, firm, dry to moist, no odor, no staining. Soils consistent with MM. | P4-HSN-CC6A-13.0-13.5 |
| 16                   |                  |           |                  |      |             |   |   |   |                       |
| 17                   | 2                | 0.0       | wet              | SP   |             | fine to medium SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |   |   |                       |
| 18                   |                  |           |                  | NR   |             |   |   | NO RECOVERY   |                       |
| 19                   |                  |           |                  |      |             |   |   |   |                       |
| 20                   |                  |           |                  |      |             |   |   |   |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611576.06 |
| <b>Date Started Drilling:</b> 5/10/2016 9:55:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683081.09 |
| <b>Date Finished Drilling:</b> 5/10/2016 10:30:00 AM | <b>Core Size:</b> 3 in                     | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 11.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|------|-------------|---|-----------------------|-----------------------|
| 1                    | 4.5              | 0.0       | dry              | FILL |             | Asphalt and gravel sub-base   |                       |                       |
| 2                    |                  |           | dry              | FILL |             | fine to coarse SAND, little ash, trace coal and glass, (5YR 4/2) dark reddish gray, medium dense, dry, no odor, no staining.  | P4-HSN-CC7A-1.0-1.5   |                       |
| 3                    |                  |           | dry              | FILL |             | Wood, trace ash and glass, (5Y 2.5/1) black, soft, dry, no odor, no staining.   | P4-HSN-CC7A-2.0-2.5   |                       |
| 4                    |                  |           |                  |      |             |   |                       | P4-HSN-CC7A-4.0-4.5   |
| 5                    |                  |           |                  |      |             | NR  |                       | NO RECOVERY           |
| 6                    | 3.5              | 12.4      | moist            | FILL |             | fine SAND, little silt and wood, trace ash, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining.   | P4-HSN-CC7A-6.0-6.5   |                       |
| 7                    |                  |           | wet              | FILL |             | Ash, little fine gravel and wood, (7.5YR 4/1) dark gray, loose, wet moderate MGP-like odor, product staining, sheen, water at 7.0 feet bgs.                                     | P4-HSN-CC7A-8.0-8.5   |                       |
| 8                    |                  |           |                  |      |             | NR  |                       | NO RECOVERY           |
| 9                    |                  |           |                  |      |             |   |                       |                       |
| 10                   | 4.5              | 36.5      | wet              | FILL |             | fine to medium SAND, little silt and fine gravel, trace wood, (2.5Y 5/2) grayish brown, medium dense, wet, moderate MGP-like odor, product staining, sheen.                     | P4-HSN-CC7A-10.0-10.5 |                       |
| 11                   |                  |           |                  |      |             |   |                       | P4-HSN-CC7A-12.0-12.5 |
| 12                   |                  |           | dry              | FILL |             | Silt, little organics, trace fill debris, (7.5YR 4/2) brown, soft, dry, no odor, no staining.   |                       |                       |
| 13                   |                  |           |                  |      |             | NR  |                       | NO RECOVERY           |
| 14                   |                  |           |                  |      |             |   | P4-HSN-CC7A-14.0-14.5 |                       |
| 15                   | 5                | 3.0       | wet              | FILL |             | Silt, trace wood, (7.5YR 4/2) brown, soft, wet, slight MGP-like odor, product staining.   | P4-HSN-CC7A-15.0-15.5 |                       |
| 16                   |                  |           | dry              | PT   |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-CC7A-15.5-16.0 |                       |
| 17                   |                  |           | moist            | OL   |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg.                                 |                       |                       |
| 18                   |                  |           | wet              | SP   |             | fine to coarse SAND, little fine to medium gravel, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                                       |                       |                       |
| 19                   |                  |           |                  |      |             |   |                       |                       |
| 20                   |                  |           |                  |      |             |   |                       |                       |

**Notes:**  
bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave             | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611552.14 |
| <b>Date Started Drilling:</b> 5/2/2016 8:55:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683054.96 |
| <b>Date Finished Drilling:</b> 5/2/2016           | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b>                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI        |  | <b>Surface Elevation:</b> 11.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content   | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID  |                       |
|----------------------|------------------|-----------|--------------------|---------|-------------|---|--|-----------------------|
|                      |                  |           |                    | ASPHALT |             | ASPHALT and gravel sub-base.  |  |                       |
| 1                    | 5                |           | slightly moist     | FILL    |             | ASH, some cinders, trace brick fragments, (5YR 3/3) dark reddish brown, loose, slightly moist, no odor, iron oxide staining.                  | P4-HSN-CC8A-0.5-1.0  |                       |
| 2                    |                  |           |                    |         |             |   | P4-HSN-CC8A-2.0-2.5  |                       |
| 3                    |                  |           |                    |         |             |   |  | P4-HSN-CC8A-4.0-4.5   |
| 4                    |                  |           |                    |         |             |   |  |                       |
| 5                    | 4                |           | moist              | FILL    |             | ASH, some cinders, trace wood fragments (5YR 2.5/1) black, moist, no odor, no staining.   | P4-HSN-CC8A-6.0-6.5  |                       |
| 6                    |                  |           |                    |         |             |   |  | P4-HSN-CC8A-8.0-8.5   |
| 7                    |                  |           |                    |         |             |   |  |                       |
| 8                    |                  |           |                    |         |             |   |  |                       |
| 9                    |                  |           |                    | NR      |             | NO RECOVERY   |  |                       |
| 10                   | 5                |           | moist to saturated | FILL    |             | silty fine SAND, some cinders, residual MGP-like product observed, (5YR 4/4) reddish brown, loose, moist to saturated, sheen, wet @ 10.5' bgs | P4-HSN-CC8A-10.0-10.5  |                       |
| 11                   |                  |           |                    |         |             |   |  | P4-HSN-CC8A-12.0-12.5 |
| 12                   |                  |           |                    |         |             |   |  |                       |
| 13                   |                  |           |                    |         |             |   |  |                       |
| 14                   |                  |           |                    |         |             |   |  |                       |
| 15                   | 4                |           | moist              | FILL    |             | fine to medium SAND, little silt, trace gravel and cinders, (5YR 4/3) reddish brown, loose, moist, no odor, no staining.                      | P4-HSN-CC8A-15.0-15.5  |                       |
| 16                   |                  |           | moist              | PT      |             |   | PEAT (degraded vegetated material), (80 % organic fibers, 20% organic silt), (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-CC8A-15.5-16.0 |
| 17                   |                  |           | wet                | SP-SM   |             |   | fine to medium SAND, (10YR 5/6) yellowish brown, wet, no odor, no staining, some mottling. Soils consistent with UNDno.  |                       |
| 18                   |                  |           |                    |         |             |   |  |                       |
| 19                   |                  |           |                    | NR      |             | NO RECOVERY   |  |                       |
| 20                   |                  |           |                    |         |             |   |  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611539    |
| <b>Date Started Drilling:</b> 5/2/2016 10:45:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683027.93 |
| <b>Date Finished Drilling:</b> 5/2/2016            | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b>                                  | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 12.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|-----------------------|
| 1                    | 4                |           |                  | ASPHALT |             | ASPHALT, gravel sub-base.  |                       |                       |
| 2                    |                  |           | slightly moist   | FILL    |             | fine to medium SAND, (10YR 8/6) yellow, slightly moist, no odor, no staining.  | P4-HSN-CC9A-1.0-1.5   |                       |
| 3                    |                  |           |                  |         |             |  |                       | P4-HSN-CC9A-3.0-3.5   |
| 4                    |                  |           |                  | NR      |             |  | NO RECOVERY           |                       |
| 5                    | 5                |           | moist            | FILL    |             | ASH, little cinders, trace silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.  | P4-HSN-CC9A-5.0-5.5   |                       |
| 6                    |                  |           |                  |         |             |  |                       | P4-HSN-CC9A-7.0-7.5   |
| 7                    |                  |           |                  |         |             |  |                       | P4-HSN-CC9A-9.0-9.5   |
| 8                    |                  |           |                  |         |             |  |                       |                       |
| 9                    | 4                |           |                  | FILL    |             | CINDERS, little medium gravel, (5YR 2.5/1) black, loose, moderate petroleum odor, product staining, sheen.   | P4-HSN-CC9A-11.0-11.5 |                       |
| 10                   |                  |           |                  |         |             |  |                       |                       |
| 11                   |                  |           |                  |         |             |  |                       |                       |
| 12                   |                  |           |                  |         |             |  |                       |                       |
| 13                   | 4                |           |                  | NR      |             | NO RECOVERY  |                       |                       |
| 14                   |                  |           |                  |         |             |  |                       |                       |
| 15                   |                  |           |                  |         |             |  |                       |                       |
| 16                   |                  |           |                  |         |             |  |                       |                       |
| 17                   | 4                |           | moist            | PT      |             | CINDERS, little medium gravel, (5YR 2.5/1) black, loose, moderate petroleum odor, product staining, sheen.<br>PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/4) dark brown, moist, no odor, no staining. Soils consistent with MM. | P4-HSN-CC9A-15.0-15.5 |                       |
| 18                   |                  |           |                  |         |             |  |                       | P4-HSN-CC9A-15.5-16.0 |
| 19                   |                  |           | moist            | SP      |             | fine to medium SAND, little fine to medium gravel, (7.5YR 5/1) gray, loose, moist, slight mottling, no odor, no staining. Soils consistent with UNDno.   |                       |                       |
| 20                   |                  |           |                  | NR      |             |  | NO RECOVERY           |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 10/04/16 09:25

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> 9822               | <b>Coordinates (NJSPNAD83) x:</b> 611525.67 |
| <b>Date Started Drilling:</b> 5/2/2016 10:40:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683001.66 |
| <b>Date Finished Drilling:</b> 5/2/2016 11:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID   |
|----------------------|------------------|-----------|------------------|---------|-------------|---|---|
| 1-5                  | 5                | 0.0       |                  | ASPHALT |             | Asphalt   |   |
|                      |                  |           |                  | FILL    |             | Gravel sub-base   |   |
|                      |                  |           | dry              | FILL    |             | fine to coarse SAND, little coal, trace wood, (7.5YR 2.5/2) very dark brown, medium dense, dry, no odor, no staining.   |   |
|                      |                  |           | dry              | FILL    |             | Ash, little coal fragments, trace wood, (7.5YR 5/1) gray, medium dense, dry, no odor, no staining.  |   |
|                      |                  |           | dry              | FILL    |             | fine SAND, little ash, trace wood, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.   |   |
| 6-10                 | 5                | 0.0       | moist            | FILL    |             | fine SAND, little wood, trace ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  |   |
|                      |                  |           | moist to wet     | FILL    |             | Ash, little wood, trace ceramics, trace glass, (5Y 5/1) gray, loose, moist to wet, no odor, no staining, water table at 7.5 ft bgs.                           |   |
| 11-15                | 5                | 0.0       | wet              | FILL    |             | silty SAND, some wood, little ash, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.   |   |
|                      |                  |           | wet              | FILL    |             | fine SAND, some silt, trace ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | P4-HSN-CC10A-11.0-11.5  |
| 16-20                | 5                | 0.0       | saturated        | FILL    |             | fine sandy SILT, (7.5YR 4/2) brown, very soft, saturated, no odor, no staining.   | P4-HSN-CC10A-15.0-15.5<br>P4-HSN-CC10A-15.5-16.0  |
|                      |                  |           | 2.0              | dry     | PT          |   | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. |
|                      |                  | 0.0       | wet              | SP      |             | fine to coarse SAND, little gravel, little to trace organic fibers, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg. |   |
|                      |                  |           | wet              | SW      |             | fine to coarse SAND, little gravel, (5Y 3/1) very dark gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                            |   |

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611509.07 |
| <b>Date Started Drilling:</b> 5/3/2016 10:40:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682978.1  |
| <b>Date Finished Drilling:</b> 5/3/2016 12:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log  | Surface Cover and Thickness:  | Sample ID              |                        |
|----------------------|------------------|-----------|------------------|---------|--|---|------------------------|------------------------|
| 1                    | 5                | 0.0       |                  | ASPHALT |  | Asphalt and gravel sub-base.  |                        |                        |
| 2                    |                  |           | dry              | FILL    |  | fine to coarse SAND, some fine gravel, little COPR (10%), (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.   |                        |                        |
| 3                    |                  |           | dry              | FILL    |  |   |                        |                        |
| 4                    |                  |           | slightly moist   | FILL    |  | fine to medium SAND, little concrete, trace ceramics, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining. Ash, trace coal fragments, (9.5/2.5Y_1) white, loose, slightly moist, no odor, no staining.                    | P4-HSN-CC11A-4.0-4.5   |                        |
| 5                    |                  |           | moist            | FILL    |  |   |                        |                        |
| 6                    | 3.5              | 0.0       | wet              | FILL    |  | silty SAND, some coal fragments, little ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. silty SAND, little to trace ash and wood, (5YR 4/3) reddish brown, soft, wet, no odor, no staining, water at 5.0 feet bgs. |                        |                        |
| 7                    |                  |           |                  |         |  |   |                        |                        |
| 8                    |                  |           |                  |         |  |   |                        | P4-HSN-CC11A-8.0-8.5   |
| 9                    |                  |           |                  | NR      |  | NO RECOVERY   |                        |                        |
| 10                   | 5                | 0.0       | wet              | FILL    |  | silty SAND, little ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   |                        |                        |
| 11                   |                  |           |                  |         |  |   |                        |                        |
| 12                   |                  |           |                  |         |  |   |                        | P4-HSN-CC11A-12.0-12.5 |
| 13                   |                  |           |                  |         |  |   |                        | P4-HSN-CC11A-14.0-14.5 |
| 14                   |                  |           |                  |         |  |   |                        |                        |
| 15                   | 5                | 0.0       | wet              | FILL    |  | silty SAND, little gravel, trace ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   | P4-HSN-CC11A-15.5-16.0 |                        |
| 16                   |                  |           |                  |         |  |   |                        |                        |
| 17                   |                  | 1.0       | dry              | PT      |  | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.   | P4-HSN-CC11A-16.0-16.5 |                        |
| 18                   |                  |           |                  |         |  |   |                        |                        |
| 19                   | 0.0              | wet       | SM               |         | fine to coarse SAND, some silt, trace organics, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg. |   |                        |                        |
| 20                   |                  |           |                  |         |  |   |                        |                        |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611495.67 |
| <b>Date Started Drilling:</b> 5/9/2016 9:45:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682949.35 |
| <b>Date Finished Drilling:</b> 5/9/2016 10:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.5 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log   | Surface Cover and Thickness:   | Sample ID              |                      |                      |
|----------------------|------------------|-----------|------------------|---------|---|--|------------------------|----------------------|----------------------|
|                      |                  | 0.0       |                  | ASPHALT |   | Asphalt and gravel sub-base.   |                        |                      |                      |
| 1                    | 5                | 0.0       | dry              | FILL    |   | Ash, little fine to medium sand, trace coal and ceramics, (2.5Y 5/1) gray, loose, dry to slightly moist, no odor, no staining.     | P4-HSN-CC12A-0.7-1.2   |                      |                      |
| 2                    |                  |           |                  |         |   |  |                        | P4-HSN-CC12A-2.5-3.0 |                      |
| 3                    |                  |           |                  |         |   |  |                        |                      | P4-HSN-CC12A-4.5-5.0 |
| 4                    |                  |           |                  |         |   |  |                        |                      |                      |
| 5                    |                  |           |                  |         |   |  |                        |                      |                      |
| 6                    | 4                | 0.0       | moist to wet     | FILL    |   | Ash, little fine to medium sand, trace wood, (2.5Y 5/1) gray, loose, moist to wet, no odor, no staining, water at 6.0 feet bgs.    | P4-HSN-CC12A-6.5-7.0   |                      |                      |
| 7                    |                  |           | wet              | FILL    |   | fine to medium SAND, trace ash, (2.5Y 6/4) light yellowish brown, medium dense, wet, no odor, no staining.                         |                        |                      |                      |
| 8                    |                  |           | wet              | FILL    |   | Ash, little wood, (2.5Y 6/3) light yellowish brown, loose, wet, no odor, no staining.  |                        |                      |                      |
| 9                    |                  |           | wet              | FILL    |   | Cinders, some to little wood, trace ash, (5Y 2.5/1) black, loose, wet, no odor, no staining.                                       |                        |                      |                      |
| 10                   |                  |           |                  | NR      |   | NO RECOVERY  | P4-HSN-CC12A-8.5-9.0   |                      |                      |
| 11                   | 5                | 1.2       | wet              | FILL    |   | fine to medium SAND, some cinders, little wood and medium gravel, trace glass, (5Y 2.5/1) black, loose, wet, no odor, no staining. | P4-HSN-CC12A-10.5-11.0 |                      |                      |
| 12                   |                  |           | wet              | FILL    |   | Ash, little wood, (2.5Y 5/1) gray, loose, wet, no odor, no staining.   | P4-HSN-CC12A-12.5-13.0 |                      |                      |
| 13                   |                  |           | wet              | FILL    |   | fine to medium SAND, little organic fibers, trace wood, (5Y 5/1) gray, medium dense, wet, no odor, no staining.                    |                        |                      |                      |
| 14                   |                  |           | wet              | FILL    |   | silty SAND, little fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.                                 | P4-HSN-CC12A-14.5-15.0 |                      |                      |
| 15                   |                  | 2.0       | wet              | FILL    |   | silty SAND, little fine gravel, trace ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                       | P4-HSN-CC12A-15.0-15.5 |                      |                      |
| 16                   | dry              |           | PT               |         | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. |  | P4-HSN-CC12A-15.5-16.0 |                      |                      |
| 17                   |                  |           |                  |         |   |  |                        |                      |                      |
| 18                   |                  |           |                  |         |   |  |                        |                      |                      |
| 19                   |                  |           |                  |         |   |  |                        |                      |                      |
| 20                   |                  |           | moist            | SM      |   | silty SAND, little organics, (2.5Y 5/2) grayish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.    |                        |                      |                      |

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611476.78 |
| <b>Date Started Drilling:</b> 5/4/2016 8:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682929.62 |
| <b>Date Finished Drilling:</b> 5/4/2016 9:20:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------------|
| 1-4                  | 3.5              | 0.0       |                  | ASPHALT |             | Asphalt   |                        |
|                      |                  |           | dry              | FILL    |             | fine to coarse SAND, little gravel, trace (5%) COPR, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.                            |                        |
|                      |                  |           | dry              | FILL    |             | Ash, (2.5Y 5/1) gray, dry, no odor, minor black staining.   |                        |
|                      |                  |           | moist            | FILL    |             | fine to medium silty SAND, little ash, trace glass, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.                                 |                        |
| 4-5                  |                  |           |                  | NR      |             | NO RECOVERY   |                        |
| 5-9                  | 3.5              | 0.0       | moist to wet     | FILL    |             | Ash, some silty sand, trace coal fragments, (2.5Y 5/1) gray, loose, moist to wet, no odor, no staining, water at 6.5 feet bgs.                    |                        |
|                      |                  |           | saturated        | FILL    |             | Ash and fine SAND, (2.5Y 5/1) gray, saturated, no odor, no staining.  |                        |
|                      |                  |           |                  | NR      |             | NO RECOVERY   |                        |
| 10-14                | 4                | 0.0       | wet              | FILL    |             | Ash, (2.5Y 5/1) gray, loose, wet, no odor, no staining.   |                        |
|                      |                  |           | wet              | FILL    |             | silty SAND, trace ash, (2.5Y 2.5/1) black, soft, wet, no odor, no staining.   |                        |
|                      |                  |           | wet              | FILL    |             | silty SAND, some gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  |                        |
|                      |                  |           |                  | NR      |             | NO RECOVERY   |                        |
| 15-19                | 5                | 0.0       | wet              | FILL    |             | Ash, (2.5Y 5/1) gray, loose, wet, no odor, no staining.   |                        |
|                      |                  |           | wet              | FILL    |             | SILT, little ash, trace fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining.  | P4-HSN-CC13A-15.5-16.0 |
|                      |                  |           | dry              | PT      |             | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-CC13A-16.0-16.5 |
|                      |                  |           | moist            | OL      |             | Organic SILT, 80% organic silt, 20% organic fibers, (2.5Y 5/2) grayish brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.    |                        |
| 19-20                |                  |           |                  |         |             |   |                        |

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**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 1/17/17 13:03

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611653.09 |
| <b>Date Started Drilling:</b> 5/13/2016 8:47:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683172.41 |
| <b>Date Finished Drilling:</b> 5/13/2016 9:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> HBB                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS  | Graphic Log | Surface Cover and Thickness:  | Sample ID             |   |
|----------------------|------------------|-----------|------------------|-------|-------------|---|-----------------------|---|
| 1                    | 4.5              | 0.0       | moist to wet     | FILL  |             | DGA, (5YR 5/1) gray, loose, moist to wet, no odor, no staining.   | P4-HSN-DD3A-2.0-2.5   |   |
| 2                    |                  |           | moist            | FILL  |             | fine to coarse SAND, little fine to medium gravel, trace ash, wood and fill debris, (7.5YR 3/4) dark brown, medium dense, moist, no odor, no staining.                      |                       |   |
| 3                    |                  |           |                  |       |             |   |                       |   |
| 4                    |                  |           |                  |       |             |   |                       |   |
| 5                    | 3.5              | 388       |                  | NR    |             | NO RECOVERY   | P4-HSN-DD3A-4.0-4.5   |   |
| 6                    |                  |           | moist            | FILL  |             | fine to medium SAND, little silt, trace fine gravel and cinders, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  |                       |   |
| 7                    |                  |           | wet              | FILL  |             | Cinders, some fine to coarse sand, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor, product staining, water at 7.0 feet bgs.  |                       |   |
| 8                    |                  |           |                  | NR    |             | NO RECOVERY   | P4-HSN-DD3A-8.0-8.5   |   |
| 9                    |                  |           |                  |       |             |   |                       |   |
| 10                   |                  |           |                  |       |             |   |                       |   |
| 11                   | 3.5              | 18.0      | wet              | FILL  |             | Cinders, some medium to coarse gravel, little medium to coarse sand, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor, product staining.                               | P4-HSN-DD3A-11.0-11.5 |   |
| 12                   |                  |           | wet              | FILL  |             | fine to coarse SAND, little silt, trace wood, (7.5YR 4/2) brown, soft, wet, slight MGP-like odor, no staining.  |                       |   |
| 13                   |                  |           | moist            | OL    |             | Organic SILT, 80% organic silt, 20% organic fibers, (2.5Y 5/2) grayish brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.                              |                       |   |
| 14                   |                  |           | dry              | PT    |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt,, (5YR 4/3) reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. |                       |   |
| 15                   |                  |           | moist            | OL    |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.                                |                       |   |
| 16                   |                  |           | moist            | ML-SM |             | fine to medium SAND, some silt, trace organics, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.                           |                       |   |
| 17                   | 4                | 20.4      |                  | SP-SC |             | NO RECOVERY   | P4-HSN-DD3A-12.0-12.5 |   |
| 18                   |                  |           |                  |       |             |   |                       | fine to coarse SAND, (5YR 2.5/2) dark reddish brown, loose, moist slight MGP-like odor, no staining. Soils consistent with UNDno. |
| 19                   |                  |           |                  |       |             |   |                       |   |
| 20                   |                  |           |                  | NR    |             | NO RECOVERY   |                       |   |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611630.37 |
| <b>Date Started Drilling:</b> 5/11/2016 11:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683149.86 |
| <b>Date Finished Drilling:</b> 5/11/2016 12:30:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 12.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm)      | Moisture Content | USCS | Graphic Log   | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|----------------|------------------|------|---|---|-----------------------|
| 1                    | 4                | 0.0            | moist            | FILL |   | DGA, (2.5Y 5/2) grayish brown, medium dense, moist, no odor, no staining.   |                       |
| 2                    |                  |                | moist            | FILL |   | fine to medium SAND, trace ash and fill debris, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.   | P4-HSN-DD4A-1.8-2.3   |
| 3                    |                  |                |                  |      |   |   |                       |
| 4                    |                  |                |                  |      | NR  |   | NO RECOVERY           |
| 5                    | 5                | 0.0            | moist            | FILL |   | fine to medium SAND, trace ash and fill debris, (5YR 4/1) dark gray, medium dense, moist, no odor, no staining.   | P4-HSN-DD4A-5.5-6.0   |
| 6                    |                  |                | moist            | FILL |   | fine to medium gravelly SAND, trace ash, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.  |                       |
| 7                    |                  |                |                  |      |   |   |                       |
| 8                    |                  | 359            | wet              | FILL |   | cinders, (5YR 2.5/1) black, loose, wet, strong MGP-like odor, no staining, water at 8.0 feet bgs.   | P4-HSN-DD4A-7.5-8.0   |
| 9                    |                  |                |                  |      |   |   |                       |
| 10                   | 4                | 300            | wet              | FILL |   | cinders, (5YR 2.5/1) black, loose, wet, strong MGP-like odor, no staining.  | P4-HSN-DD4A-9.5-10.0  |
| 11                   |                  |                |                  |      |   |   |                       |
| 12                   |                  |                |                  |      |   |   |                       |
| 13                   |                  | 0.0            | moist            | FILL |   | fine to medium SAND, little fine gravel, silt, organics, and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.                           | P4-HSN-DD4A-12.7-13.2 |
| 14                   |                  | slightly moist | OL               |      | Organic SILT, 70% organic silt, 30% organic fibers, (2.5Y 5/2) grayish brown, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg. | P4-HSN-DD4A-13.2-13.7   |                       |
| 15                   |                  |                |                  | NR   |   | NO RECOVERY   |                       |
| 16                   | 5                | 30.0           | moist            | SP   |   | fine to coarse SAND, little organics, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.                                 | P4-HSN-DD4A-15.0-15.5 |
| 17                   |                  |                | wet              | SP   |   | fine to coarse SAND, some fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, slight MGP-like odor, product staining. Soils consistent with UNDno. |                       |
| 18                   |                  |                |                  |      |   |   |                       |
| 19                   |                  |                |                  |      |   |   |                       |
| 20                   | 1                | 20.0           | wet              | SP   |   | fine to coarse SAND, some fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, slight MGP-like odor, product staining. Soils consistent with UNDno. |                       |
| 21                   |                  |                |                  |      |   |   |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT - 10/4/16 09:25

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|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611618.92 |
| <b>Date Started Drilling:</b> 4/29/2016 1:05:00 PM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683121.69 |
| <b>Date Finished Drilling:</b> 4/29/2016 1:35:00 PM | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 12.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS      | Graphic Log | Surface Cover and Thickness:   | Sample ID  |  |
|----------------------|------------------|-----------|------------------|-----------|-------------|--|--|--|
|                      |                  | 4         |                  | ASPHALT   |             | ASPHALT, subbase gravel.   |  |  |
| 1                    | 5                |           | slightly moist   | FILL      |             | ASH, some cinders, little medium gravel and fine to medium sand, (7.5YR 5/1) gray, slightly moist, no odor, no staining.                                       | P4-HSN-DD5A-0.7-1.2  |  |
| 2                    |                  |           |                  |           |             |  | P4-HSN-DD5A-2.0-2.5  |  |
| 3                    |                  |           |                  |           |             |  |  |  |
| 4                    |                  |           |                  |           |             |  | P4-HSN-DD5A-4.0-4.5  |  |
| 5                    | 4                |           | wet              | FILL      |             | silty fine to medium SAND, little fine to medium gravel, (10YR 4/2) dark grayish brown, wet, moderate petroleum odor, product staining, water at 6.5 feet bgs. |  |  |
| 6                    |                  |           |                  |           |             |  | P4-HSN-DD5A-6.0-6.5  |  |
| 7                    |                  |           |                  |           |             |  |  |  |
| 8                    |                  |           |                  |           |             |  | P4-HSN-DD5A-8.0-8.5  |  |
| 9                    |                  | 269       |                  | NR        |             | NO RECOVERY  |  |  |
| 10                   | 5                |           |                  | FILL      |             | fine to medium SAND, some silt, little fine to medium gravel, (7.5YR 3/4) dark brown, moderate petroleum odor, product soaked, sheen.                          | P4-HSN-DD5A-10.0-10.5  |  |
| 11                   |                  |           |                  |           |             |  |  |  |
| 12                   |                  |           |                  |           |             |  | P4-HSN-DD5A-12.0-12.5  |  |
| 13                   |                  |           |                  |           |             |  |  |  |
| 14                   |                  |           | moist            | FILL      |             | SILT, some fine to medium sand, little fine to medium gravel, (5YR 5/2) reddish gray, moist, slight petroleum odor, no staining.                               | P4-HSN-DD5A-14.0-14.5  |  |
| 15                   |                  |           |                  |           |             |  | P4-HSN-DD5A-14.5-15.0  |  |
| 16                   | 3                | 0.0       |                  | PT        |             | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), stiff, no odor, no staining. Soils consistent with MM.                             | P4-HSN-DD5A-15.0-15.5  |  |
| 17                   |                  |           |                  | saturated | SP          |  | fine to medium SAND, little fine gravel, (5YR 4/4) reddish brown, dense, saturated, no odor, no staining. Soils consistent with UNDno. |  |
| 18                   |                  |           |                  |           | NR          |  | NO RECOVERY  |  |
| 19                   |                  |           |                  |           |             |  |  |  |
| 20                   |                  |           |                  |           |             |  |  |  |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> 9822               | <b>Coordinates (NJSPNAD83) x:</b> 611605.95 |
| <b>Date Started Drilling:</b> 5/2/2016 9:10:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683095.14 |
| <b>Date Finished Drilling:</b> 5/2/2016 10:25:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 12.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID   |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|---|---|-----------------------|
| 1-5                  | 5                | 0.0       |                  | ASPHALT |             | Asphalt   |   |                       |
|                      |                  |           |                  | FILL    |             | Gravel sub-base   |   |                       |
|                      |                  |           | dry              | FILL    |             | fine to medium SAND, little coal fragments, trace ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.                  |   |                       |
|                      |                  |           | dry              | FILL    |             | fine to medium SAND, some ash, little coal fragments, trace wood, (7.5YR 3/4) dark brown, medium dense, dry, no odor, no staining.  |   |                       |
| 6-10                 | 3                | 0.0       | moist            | FILL    |             | fine to medium SAND, little ash and coal, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.                        |   |                       |
|                      |                  |           | wet              | FILL    |             | Ash, (7.5YR 4/2) brown, loose, wet, slight MGP-like odor, oil staining, sheen, water table at 6.5 ft bgs.                           | P4-HSN-DD6A-6.5-7.0   |                       |
|                      |                  |           | wet              | FILL    |             | sandy SILT, (5YR 4/3) reddish brown, soft, wet, slight MGP-like odor, no staining.  |   |                       |
|                      |                  |           |                  | NR      |             | fine to coarse SAND, and coarse gravel, (2.5Y 2.5/1) black, loose, wet, slight MGP-like odor, MGP-like staining. NO RECOVERY        |   |                       |
| 10-12                | 5                | 55.0      | wet              | FILL    |             | Ash, little gravel, (2.5Y 4/2) dark grayish brown, loose, wet, moderate MGP-like odor, MGP-like product soaked, sheen.              | P4-HSN-DD6A-10.0-10.5   |                       |
|                      |                  |           | 0.0              | wet     | FILL        |   | silty SAND, (5YR 4/3) reddish brown, soft to medium dense, wet, no odor, no staining.   | P4-HSN-DD6A-12.0-12.5 |
| 15-20                | 5                | 2.8       | saturated        | FILL    |             | Gravel, some silt and sand, little ash, (7.5YR 2.5/3) very dark brown, loose, saturated, slight MGP-like odor, sheen.               | P4-HSN-DD6A-15.0-15.5   |                       |
|                      |                  |           | 2.0              | dry     | PT          |   | PEAT, 80% organic fibers, 20% organic silt, (2.5YR 2.5/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.         | P4-HSN-DD6A-15.5-16.0 |
|                      |                  |           | 0.0              | wet     | SP          |   | fine to coarse SAND, little gravel, little to trace organics, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg. |                       |
|                      |                  |           | wet              | SW      |             | fine to coarse SAND, little gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> 9822               | <b>Coordinates (NJSPNAD83) x:</b> 611591.95 |
| <b>Date Started Drilling:</b> 5/2/2016 7:45:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683067.92 |
| <b>Date Finished Drilling:</b> 5/2/2016 9:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 12.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log  | Surface Cover and Thickness:  | Sample ID  |                       |
|----------------------|------------------|-----------|------------------|---------|--|---|--|-----------------------|
| 0                    |                  | 0.0       |                  | ASPHALT |  | Asphalt   |  |                       |
| 1                    | 5                |           |                  | FILL    |  | Gravel sub-base   |  |                       |
| 2                    |                  | dry       | FILL             |         | fine to medium SAND, little coal fragments, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.  | P4-HSN-DD7A-1.5-2.0   |  |                       |
| 3                    |                  | dry       | FILL             |         | Ash, some coal fragments, little to trace cinders, (7.5YR 5/1) gray, loose, dry, no odor, no staining.   | P4-HSN-DD7A-2.0-2.5   |  |                       |
| 4                    |                  |           |                  |         |  |   | P4-HSN-DD7A-4.0-4.5  |                       |
| 5                    | 5                | 10.0      | dry to moist     | FILL    |  | Ash, some coal fragments, little cinders, (7.5YR 4/1) dark gray, loose, dry to moist, slight MGP-like odor, no staining.                                  |  |                       |
| 6                    |                  |           |                  |         |  |   | P4-HSN-DD7A-6.0-6.5  |                       |
| 7                    |                  | 40.0      | wet              | FILL    |  | fine to coarse SAND, some coarse gravel, (5YR 2.5/1) black, medium dense, wet moderate MGP-like odor, product staining, sheen, water table at 7.0 ft bgs. | P4-HSN-DD7A-7.0-7.5  |                       |
| 8                    |                  | moist     | FILL             |         | fine to coarse SAND, some coarse gravel, (5YR 4/3) reddish brown, moist, slight MGP-like odor, product staining.                                   |   | P4-HSN-DD7A-8.0-8.5  |                       |
| 9                    |                  | 15.0      | moist            | FILL    |  | fine to medium SAND, (2.5Y 2.5/1) black, medium dense, moist, no odor, no staining.   |  |                       |
| 10                   | 5                | 7.0       | wet              | FILL    |  | Cinders, some fine to coarse sand, little fine gravel, (2.5Y 2.5/1) black, loose, wet moderate MGP-like odor, product staining, sheen.                    | P4-HSN-DD7A-10.0-10.5  |                       |
| 11                   |                  | 0.0       | saturated        | FILL    |  |   | fine to medium SAND, some silt, little organic fibers, (7.5YR 3/2) dark brown, soft, wet, slight MGP-like odor, no staining, sheen.        |                       |
| 12                   |                  |           |                  | wet     | FILL   |   | Ash, trace glass, (7.5YR 5/1) gray, loose, saturated, slight MGP-like odor, no staining, sheen.  | P4-HSN-DD7A-12.0-12.5 |
| 13                   |                  |           |                  |         |  |   | fine to medium silty SAND, trace medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                          | P4-HSN-DD7A-14.0-14.5 |
| 14                   |                  |           |                  |         |  |   |  |                       |
| 15                   | 5                | 0.0       | wet              | FILL    |  | fine to medium silty SAND, trace gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | P4-HSN-DD7A-15.5-16.0  |                       |
| 16                   |                  | dry       | PT               |         | PEAT, 80% organic fibers, 20% organic silt, (2.5YR 3/3) dark reddish brown, firm, dry, slight organic odor, no staining. Soils consistent with MM. |   |  |                       |
| 17                   |                  |           |                  | moist   | SP   |   | fine to coarse SAND, some organic fibers, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.      |                       |
| 18                   |                  |           |                  | moist   | SW   |   | fine to coarse SAND, some medium gravel, (2.5Y 5/2) grayish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno. |                       |
| 19                   |                  |           |                  |         |  |   |  |                       |
| 20                   |                  |           |                  |         |  |   |  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25



|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Macrocores         | <b>Coordinates (NJSPNAD83) x:</b> 611578.92 |
| <b>Date Started Drilling:</b> 5/3/2016 8:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683041.09 |
| <b>Date Finished Drilling:</b> 5/3/2016 9:20:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                       | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 12.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log | Surface Cover and Thickness:   | Sample ID  |                       |
|----------------------|------------------|-----------|------------------|--------------|-------------|--|--|-----------------------|
|                      |                  | 0.0       |                  | ASPHALT      |             | Asphalt and gravel sub-base.   |  |                       |
| 1                    | 4.5              | 0.0       | dry              | FILL         |             | fine to coarse SAND, little gravel, trace coal, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.                             | P4-HSN-DD8A-0.5-1.0  |                       |
| 2                    |                  |           | dry              | FILL         |             | Ash, some coal fragments, trace wood, (2.5Y 5/1) gray, loose, dry, no odor, no staining.   | P4-HSN-DD8A-2.0-2.5  |                       |
| 3                    |                  |           | dry              | FILL         |             | fine SAND, little ash, trace coal, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.  | P4-HSN-DD8A-4.0-4.5  |                       |
| 4                    |                  |           |                  | NR           |             | NO RECOVERY  |  |                       |
| 5                    | 3.5              | 0.0       | moist            | FILL         |             | Ash, some coal fragments, (2.5Y 5/1) gray, loose, moist, no odor, no staining.   | P4-HSN-DD8A-6.0-6.5  |                       |
| 6                    |                  |           | 1.0              | moist to wet | FILL        |  | Cinders, little wood, trace gravel, (7.5YR 3/2) dark brown, moist to wet, slight petroleum odor, product staining 8.0-8.5 ft bgs, water at 8.0 feet bgs. | P4-HSN-DD8A-8.0-8.5   |
| 7                    |                  |           |                  |              | NR          |  | NO RECOVERY  |                       |
| 8                    | 4.5              | 1.0       | wet              | FILL         |             | Cinders, little wood, trace gravel, (7.5YR 3/2) dark brown, loose, wet, slight petroleum odor, no staining, sheen.                           | P4-HSN-DD8A-10.0-10.5  |                       |
| 9                    |                  |           | wet              | FILL         |             |  |  |                       |
| 10                   |                  |           | 0.0              | wet          | FILL        |  | Ash, (9.5/2.5Y_1) white, loose, wet, slight petroleum odor, no staining, sheen.  | P4-HSN-DD8A-12.0-12.5 |
| 11                   |                  |           |                  |              |             |  | silty SAND, little ash and gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, light sheen.  |                       |
| 12                   |                  |           |                  |              | NO RECOVERY |  |  |                       |
| 13                   | 5                | 0.0       | wet              | FILL         |             | silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | P4-HSN-DD8A-15.5-16.0  |                       |
| 14                   |                  |           | moist            | FILL         |             |  |  |                       |
| 15                   |                  |           | 2.5              | dry          | PT          |  | Re-worked organic silt, little organics, (2.5Y 2.5/1) black, medium stiff, moist, no odor, no staining.  | P4-HSN-DD8A-16.0-16.5 |
| 16                   |                  |           |                  |              |             |  | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.        |                       |
| 17                   | 0.0              | 0.0       | wet              | SM           |             | UNDorg, silty SAND, little organics, trace gravel, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg. |  |                       |
| 18                   |                  |           | wet              | SM           |             | UNDno, silty SAND, some gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.              |  |                       |
| 19                   |                  |           |                  |              |             |  |  |                       |
| 20                   |                  |           |                  |              |             |  |  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611564.84 |
| <b>Date Started Drilling:</b> 5/3/2016 9:30:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683013.2  |
| <b>Date Finished Drilling:</b> 5/3/2016 10:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                        | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 12.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID   |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|---|---|-----------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base.  |   |                       |
| 1                    | 4.5              |           | dry              | FILL    |             | fine to coarse SAND, little COPR (10%) and medium gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.   | P4-HSN-DD9A-1.0-1.5   |                       |
| 2                    |                  |           | dry              | FILL    |             |   | fine to medium SAND, some ash, little fine gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.                                    | P4-HSN-DD9A-2.0-2.5   |
| 3                    |                  |           | dry              | FILL    |             | Ash, little coal fragments, (9.5/N) white, loose, dry, no odor, no staining.  |   |                       |
| 4                    |                  |           | moist            | FILL    |             | fine SAND, some wood, little coal fragments, (7.5YR 2.5/2) very dark brown, medium dense, moist, no odor, no staining.  | P4-HSN-DD9A-4.0-4.5   |                       |
| 5                    |                  |           |                  | NR      |             | NO RECOVERY   |   |                       |
| 6                    | 4.5              | 0.0       | slightly moist   | FILL    |             | fine to medium SAND, some to little ash, (7.5YR 4/2) brown, medium dense, slightly moist, no odor, no staining.   | P4-HSN-DD9A-6.0-6.5   |                       |
| 7                    |                  |           | slightly moist   | FILL    |             | Ash, trace ceramics, (2.5Y 5/1) gray, loose, slightly moist to wet, no odor, no staining, water at 7.5 feet bgs.  |   |                       |
| 8                    |                  |           | saturated        | FILL    |             | Ash, little cinders and fine gravel, (7.5YR 4/1) dark gray, loose, saturated, no odor, hydrocarbon staining, sheen 8.0-8.5 ft bgs.                                      | P4-HSN-DD9A-8.0-8.5   |                       |
| 9                    |                  |           |                  | NR      |             | NO RECOVERY   |   |                       |
| 10                   | 5                | 0.0       | wet              | FILL    |             | Ash, some silty sand, little wood, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining.  | P4-HSN-DD9A-10.0-10.5   |                       |
| 11                   |                  |           | saturated        | FILL    |             | sandy SILT, trace ash, (7.5YR 4/1) dark gray, very soft, saturated, no odor, no staining.<br>sandy SILT, (7.5YR 4/2) brown, very soft, saturated, no odor, no staining. | P4-HSN-DD9A-12.0-12.5   |                       |
| 12                   |                  |           | saturated        | FILL    |             |   |   |                       |
| 13                   |                  |           |                  |         |             | P4-HSN-DD9A-14.0-14.5   |   |                       |
| 14                   |                  |           |                  |         |             |   |   |                       |
| 15                   | 5                | 0.0       | saturated        | FILL    |             | sandy SILT, (7.5YR 4/2) brown, non plastic very soft, saturated, no odor, no staining.  | P4-HSN-DD9A-15.5-16.0   |                       |
| 16                   |                  |           | 2.0              | dry     | PT          |   | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-DD9A-16.0-16.5 |
| 17                   |                  |           | 0.0              | wet     | SM          |   | fine to coarse SAND, some silt, little organics, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg. |                       |
| 18                   |                  |           |                  |         |             |   |   |                       |
| 19                   |                  |           |                  |         |             |   |   |                       |
| 20                   |                  |           |                  |         |             |   |   |                       |

**Notes:**  
bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

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|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611543.79 |
| <b>Date Started Drilling:</b> 5/10/2016 8:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682995.96 |
| <b>Date Finished Drilling:</b> 5/10/2016 9:52:00 AM | <b>Core Size:</b> 3 in                     | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 12.3 ft NAVD88    |

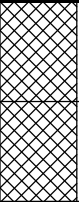
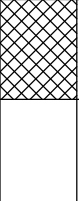
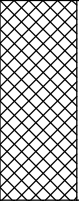
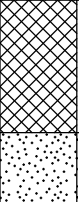
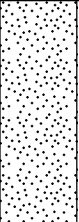
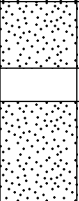
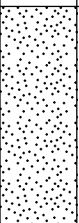
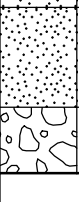

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID              |
|----------------------|------------------|-----------|------------------|------|-------------|---|------------------------|
| 1-5                  | 5                | 0.0       |                  | FILL |             | Asphalt and gravel sub-base.  | P4-HSN-DD10A-2.0-2.5   |
|                      |                  |           | dry              | FILL |             | fine to coarse SAND, little medium gravel, trace coal, (7.5YR 4/3) brown, dry, no odor, no staining.  |                        |
|                      |                  |           | dry              | FILL |             | fine to coarse SAND, little medium gravel, trace COPR (10%), coal and fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.                            |                        |
|                      |                  |           | dry to moist     | FILL |             | Ash, little wood, trace coal and ceramics, (2.5Y 5/1) gray, loose, dry to moist, no odor, no staining.  |                        |
| 6-10                 | 3.5              | 0.0       | dry              | FILL |             | Ash, some fine to medium sand, little fill debris, (2.5Y 5/1) gray, loose, dry, no odor, no staining.   | P4-HSN-DD10A-4.0-4.5   |
|                      |                  |           | moist to wet     | FILL |             | Ash, little wood and fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining, water at 7.0 feet bgs.  | P4-HSN-DD10A-6.0-6.5   |
|                      |                  |           |                  | NR   |             | NO RECOVERY   | P4-HSN-DD10A-8.0-8.5   |
| 11-15                | 4.5              | 0.0       | wet              | FILL |             | Ash, some fine sand, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.   | P4-HSN-DD10A-12.0-12.5 |
|                      |                  |           | wet              | FILL |             | fine to medium SAND, some silt, little fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   |                        |
|                      |                  |           |                  | NR   |             | NO RECOVERY   |                        |
|                      |                  |           |                  | NR   |             | NO RECOVERY   |                        |
| 16-20                | 5                | 0.0       | wet              | FILL |             | fine to medium SAND, little silt and fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   | P4-HSN-DD10A-14.0-14.5 |
|                      |                  |           | dry              | PT   |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-DD10A-15.5-16.0 |
|                      |                  |           | moist            | OL   |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg.                                 | P4-HSN-DD10A-16.0-16.5 |
|                      |                  |           | wet              | SP   |             | fine to coarse SAND, little fine to medium gravel, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDo.  |                        |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDo - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNOrg - organic undisturbed native deposits    CCPW - chromium chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611696.59 |
| <b>Date Started Drilling:</b> 5/13/2016 10:05:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683215.41 |
| <b>Date Finished Drilling:</b> 5/13/2016 10:50:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 11.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log   | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|------|---|---|-----------------------|
| 1-3                  | 3                | 0.0       | dry              | FILL |    | DGA, (7.5YR 4/2) brown, loose, dry, no odor, no staining.   |                       |
|                      |                  |           | moist            | FILL |    | fine to medium sandy SILT, trace fine gravel and wood, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.  |                       |
|                      |                  |           |                  | NR   |   | NO RECOVERY   |                       |
| 5-8                  | 5                | 4.0       | moist            | FILL |    | fine to medium sandy SILT, trace fine gravel and wood, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.  |                       |
|                      |                  |           | moist            | FILL |   | SILT, trace black organic material, (7.5YR 3/2) dark brown, medium dense, moist, slight MGP-like odor, no staining, water at 8.0 feet bgs.  |                       |
| 10-14                | 4.5              | 9.0       | moist            | SP   |  | fine SAND, (2.5Y 5/2) grayish brown, medium stiff, moist, slight MGP-like odor, product staining. Soils consistent with UNDno.  | P4-HSN-EE1A-10.0-10.5 |
|                      |                  |           | saturated        | SP   |  | fine to coarse SAND, little silt, (5YR 4/3) reddish brown, medium dense, saturated, slight MGP-like odor, product staining. Soils consistent with UNDno.                          |                       |
|                      |                  |           |                  | NR   |   | NO RECOVERY   |                       |
| 15-19                | 5                | 175       | moist            | SP   |  | fine to medium SAND, some fine gravel, trace silt, (5YR 3/2) dark reddish brown, loose, moist, moderate MGP-like odor, product staining. Soils consistent with UNDno.             |                       |
|                      |                  |           | moist            | SP   |  | medium to coarse SAND, some fine to medium gravel, trace silt, (5YR 3/2) dark reddish brown, loose, moist, moderate MGP-like odor, product staining. Soils consistent with UNDno. |                       |
| 20-21                | 1                |           | moist            | GP   |  | fine to coarse SAND, some medium gravel, trace silt, (5YR 3/2) dark reddish brown, loose, moist, moderate MGP-like odor, product staining. Soils consistent with UNDno.           |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611688.94 |
| <b>Date Started Drilling:</b> 5/6/2016 8:18:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683186.74 |
| <b>Date Finished Drilling:</b> 5/6/2016 9:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 13.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |                       |                     |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|-----------------------|---------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                       |                       |                     |
| 1                    | 4.5              |           | dry              | FILL    |             | fine to medium SAND, little silt and medium to coarse gravel, (7.5YR 2.5/3) very dark brown, dry, no odor, no staining.                                     | P4-HSN-EE2A-0.5-1.0   |                       |                     |
| 2                    |                  |           |                  |         |             |   |                       | P4-HSN-EE2A-2.0-2.5   |                     |
| 3                    |                  |           |                  |         |             |   |                       |                       | P4-HSN-EE2A-4.0-4.5 |
| 4                    |                  |           |                  |         |             |   |                       |                       |                     |
| 5                    |                  |           |                  | NR      |             | NO RECOVERY   |                       |                       |                     |
| 6                    | 4                | 0.0       |                  | FILL    |             | fine to medium SAND, some medium to coarse gravel, trace silt, (7.5YR 4/3) brown, wet, no odor, no staining, water at 7.5 feet bgs.                         | P4-HSN-EE2A-6.0-6.5   |                       |                     |
| 7                    |                  |           |                  |         |             |   |                       |                       |                     |
| 8                    |                  |           | slightly moist   | FILL    |             | fine SAND, some ash, cinders and coal, (7.5YR 3/1) very dark gray, slightly moist, no odor, no staining.  | P4-HSN-EE2A-8.0-8.5   |                       |                     |
| 9                    |                  |           |                  | NR      |             | NO RECOVERY   |                       |                       |                     |
| 10                   | 5                | 0.0       | wet              | FILL    |             | fine to medium SAND, some silt, (7.5YR 4/3) brown, wet, no odor, no staining.   | P4-HSN-EE2A-10.0-10.5 |                       |                     |
| 11                   |                  |           |                  |         |             |   |                       |                       |                     |
| 12                   |                  |           |                  |         |             |   |                       | P4-HSN-EE2A-12.0-12.5 |                     |
| 13                   |                  |           | moist            | OL      |             | Organic SILT, 30% organic fiber and 70% organic silt, (7.5YR 2.5/3) very dark brown, moist, slight organic odor, no staining. Soils consistent with UNDorg. | P4-HSN-EE2A-12.5-13.0 |                       |                     |
| 14                   |                  |           |                  | NR      |             | NO RECOVERY   |                       |                       |                     |
| 15                   | 4.5              | 87.0      | wet              | ML      |             | fine sandy SILT, trace fine gravel, (7.5YR 4/1) dark gray, wet, no odor, no staining. Soils consistent with UNDno.  |                       |                       |                     |
| 16                   |                  |           |                  |         |             |   |                       |                       |                     |
| 17                   |                  |           |                  |         |             |   |                       |                       |                     |
| 18                   |                  |           |                  |         |             |   |                       |                       |                     |
| 19                   |                  |           | wet              | SP      |             | medium SAND, some medium gravel, (7.5YR 3/2) dark brown, wet, strong MGP-like odor and staining, sheen. Soils consistent with UNDno.                        |                       |                       |                     |
| 20                   | 1                | 67.8      |                  | NR      |             | NO RECOVERY   |                       |                       |                     |
| 21                   |                  |           | wet              | SP      |             | medium SAND, some medium gravel, (7.5YR 3/2) dark brown, wet, strong MGP-like odor and staining, sheen. Soils consistent with UNDno.                        |                       |                       |                     |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611672.96 |
| <b>Date Started Drilling:</b> 4/29/2016 10:55:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683162.17 |
| <b>Date Finished Drilling:</b> 4/29/2016 12:30:00 PM | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|
| 0-1                  | 5                | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                       |
| 1-2                  |                  |           | slightly moist   | FILL    |             | CINDERS, some fine gravel, (5YR 2.5/1) black, slightly moist, no odor, no staining.   | P4-HSN-EE3A-1.1-1.6   |
| 2-3                  |                  |           | slightly moist   | FILL    |             | fine to medium SAND, some silt, little fine gravel, (10YR 4/2) dark grayish brown, slightly moist, no odor, no staining.  | P4-HSN-EE3A-2.0-2.5   |
| 3-4                  | 4                | 0.0       |                  |         |             |   |                       |
| 4-5                  |                  |           | slightly moist   | FILL    |             | fine SAND, some silt, little wood with cresote odor, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.                 | P4-HSN-EE3A-4.0-4.5   |
| 5-6                  |                  |           | moist            | FILL    |             | fine to medium SAND, some silt, trace fine gravel, (10YR 4/2) dark grayish brown, moist, no odor, no staining.  | P4-HSN-EE3A-6.0-6.5   |
| 6-7                  | 5                | 0.0       |                  | NR      |             | NO RECOVERY   |                       |
| 7-8                  |                  |           | wet              | FILL    |             | silty fine SAND, trace fine gravel, (7.5YR 3/3) dark brown, wet, no odor, no staining, water at 10.0 feet bgs.  | P4-HSN-EE3A-8.0-8.5   |
| 8-9                  |                  |           | moist            | FILL    |             | SILT, trace fine sand, cinders and organics, (7.5YR 3/4) dark brown, soft, moist, no odor, no staining.   | P4-HSN-EE3A-10.0-10.5 |
| 9-10                 | 3.5              | 0.0       |                  | OL      |             | SILT, (90% organic silt, 10% organic fibers), (7.5YR 3/4) dark brown, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | P4-HSN-EE3A-11.5-12.0 |
| 10-11                |                  |           | slightly moist   | OL      |             | NO RECOVERY   | P4-HSN-EE3A-12.0-12.5 |
| 11-12                |                  |           | moist            | ML      |             | UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, moist, slight organic odor, no staining. Soils consistent with UNDorg.                 |                       |
| 12-13                | 3.5              | 0.0       |                  | SP      |             | sandy SILT, trace fine gravel and organics, (10YR 5/6) yellowish brown, moist, no odor, no staining. Soils consistent with UNDno.                                   |                       |
| 13-14                |                  |           | wet              | SP      |             | fine to medium SAND, some fine to medium gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.                            |                       |
| 14-15                |                  |           |                  | NR      |             | NO RECOVERY   |                       |
| 15-16                |                  |           |                  |         |             |   |                       |
| 16-17                |                  |           |                  |         |             |   |                       |
| 17-18                |                  |           |                  |         |             |   |                       |
| 18-19                |                  |           |                  |         |             |   |                       |
| 19-20                |                  |           |                  |         |             |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611660.78 |
| <b>Date Started Drilling:</b> 4/29/2016 9:10:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683134.58 |
| <b>Date Finished Drilling:</b> 4/29/2016 10:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm)      | Moisture Content | USCS    | Graphic Log   | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|----------------|------------------|---------|---|---|-----------------------|
| 1                    | 4                | 138            | dry              | ASPHALT |   | ASPHALT and gravel sub-base   |                       |
| 2                    |                  |                | dry              | FILL    |   | fine to coarse SAND, trace rounded gravel, (9/2.5Y_/2) very pale yellow, dry, no odor, no staining.   | P4-HSN-EE4A-1.5-2.0   |
| 3                    |                  |                | slightly moist   | FILL    |   | fine to coarse SAND, some ash, trace coal, (7.5YR 4/1) dark gray, medium dense, slightly moist, slight petroleum odor, no staining.<br>NO RECOVERY                    |                       |
| 4                    |                  |                |                  | NR      |   |   |                       |
| 5                    | 3.5              | 729            | dry              | FILL    |   | fine to coarse SAND, little ash and brick, (7.5YR 4/2) brown, medium dense, dry, slight petroleum odor, no staining.  |                       |
| 6                    |                  |                | slightly moist   | FILL    |   | fine to coarse SAND, some ash, trace coal, (7.5YR 4/2) brown, medium dense, slightly moist to moist, strong petroleum odor, product staining.                         |                       |
| 7                    |                  | 617            | NR               |         |   | NO RECOVERY   |                       |
| 8                    |                  |                |                  |         |   | NO RECOVERY   | P4-HSN-EE4A-8.0-8.5   |
| 9                    | 5                | 200            | wet              | FILL    |   | Ash, some fine to coarse sand, little coal fragments, trace glass, (5Y 5/1) gray, loose, wet, strong petroleum odor, product staining, sheen, water at 10.0 feet bgs. |                       |
| 10                   |                  |                | 145              |         |   |   |                       |
| 11                   |                  | 21             | moist            | FILL    |   | fine to coarse SAND, some silt, trace coarse gravel, (5R 5/2) weak red, medium dense, moist, moderate petroleum odor, product staining, sheen.                        | P4-HSN-EE4A-12.0-12.5 |
| 12                   |                  |                | slightly moist   | FILL    |   | fine to coarse SAND, little silt, trace glass, (7.5YR 4/2) brown, dense, slightly moist, slight petroleum odor, no staining.  | P4-HSN-EE4A-14.0-14.5 |
| 13                   |                  |                |                  |         |   |   |                       |
| 14                   | 5                | 160            | wet              | FILL    |   | Silt, trace ash, (5R 5/4) weak red, soft, wet, strong petroleum odor, product staining, sheen.  | P4-HSN-EE4A-15.5-16.0 |
| 15                   |                  |                | moist            | FILL    |   | Ash, some fine to medium sand, (2.5Y 5/1) gray, medium dense, moist, strong petroleum odor, product staining, sheen.  | P4-HSN-EE4A-16.0-16.5 |
| 16                   |                  | slightly moist | PT               |         | PEAT (degraded vegetated material), 80% organic fibers and 20% organic silt, (7.5YR 3/3) dark brown, slightly moist, strong organic odor. Soils consistent with MM. |   |                       |
| 17                   |                  | slightly moist | OL               |         | silt, trace sand and organics, (7.5YR 4/2) brown, slightly moist, slight organic odor, no staining. Soils consistent with UNDno.                                    |   |                       |
| 18                   | 5                | 160            | slightly moist   | SP      |   | fine to medium SAND, some coarse gravel, (5YR 4/3) reddish brown, slightly moist, no odor, no staining. Soils consistent with UNDno.                                  |                       |
| 19                   |                  |                |                  |         |   |   |                       |
| 20                   |                  |                |                  |         |   |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611646.01 |
| <b>Date Started Drilling:</b> 4/29/2016 12:35:00 PM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683108.49 |
| <b>Date Finished Drilling:</b> 4/29/2016 2:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID  |   |
|----------------------|------------------|-----------|------------------|---------|-------------|--|--|---|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base  |  |   |
| 1                    | 5                |           | dry              | FILL    |             | Cinders, some fine to medium sand, little ash, trace coal, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.   | P4-HSN-EE5A-0.5-1.0  |   |
| 2                    |                  |           |                  |         |             |  | P4-HSN-EE5A-2.0-2.5  |   |
| 3                    |                  |           |                  |         |             |  |  | P4-HSN-EE5A-4.0-4.5   |
| 4                    |                  |           |                  |         |             |  |  |   |
| 5                    |                  | 0.0       | wet              | FILL    |             | Sandy Silt, trace fill, (5YR 4/3) reddish brown, soft to medium dense, wet, no odor, no staining, water table at 5.5 ft bgs. | P4-HSN-EE5A-5.0-5.5  |   |
| 6                    |                  |           |                  |         |             |  |  |   |
| 7                    | 5                |           | dry              | FILL    |             | fine to medium SAND, trace organics, (7.5YR 4/1) dark gray, medium stiff, dry, slight petroleum odor, no staining.           |  |   |
| 8                    |                  |           |                  |         |             |  |  |   |
| 9                    |                  |           |                  |         |             |  |  |   |
| 10                   |                  | 160       | moist            | FILL    |             | fine to medium SAND, some medium gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.                       |  |   |
| 11                   | 5                |           | saturated        | FILL    |             |  | Ash, some cinders, trace wood, (7.5YR 5/1) gray, loose, saturated, moderate petroleum odor, no staining, sheen.  | P4-HSN-EE5A-11.0-11.5   |
| 12                   |                  |           |                  |         |             |  |  |   |
| 13                   |                  |           |                  | wet     | FILL        |  | Sandy Silt, little fine gravel, trace fill, (7.5YR 4/2) brown, loose, wet, no odor, no staining.   | P4-HSN-EE5A-13.0-13.5   |
| 14                   |                  |           |                  |         |             |  |  |   |
| 15                   |                  | 0.0       | saturated to wet | FILL    |             | Sandy Silt, little wood, (7.5YR 4/2) brown, soft, saturated to wet, no odor, no staining.                                    | P4-HSN-EE5A-15.5-16.0  |   |
| 16                   | 5                |           | dry              | PT      |             |  |  | PEAT, 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. |
| 17                   |                  |           |                  |         |             |  |  |   |
| 18                   |                  |           |                  | wet     | SM          |  | fine to coarse SAND, little silt and fine to medium gravel, trace organics, (2.5Y 5/2) grayish brown, medium dense, wet, slight organic odor, no staining. Soils consistent with UNDorg. |   |
| 19                   |                  |           |                  |         |             |  |  |   |
| 20                   |                  |           |                  |         |             |  |  |   |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25



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| <b>Project Name:</b> PPG Garfield Ave             | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611633.2192 |
| <b>Date Started Drilling:</b> 5/2/2016 7:50:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683081.88   |
| <b>Date Finished Drilling:</b> 5/2/2016           | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 15 ft              |
| <b>Logged By:</b>                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                     |
| <b>Physical Location:</b> Actual - HSN PDI        |  | <b>Surface Elevation:</b> 12.9 ft NAVD88      |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                       |  |  |                       |
|----------------------|------------------|-----------|------------------|------|-------------|--|-----------------------|-----------------------|--|--|-----------------------|
| 1                    | 5                | 49        | moist            | FILL |             | ASH, some cinders, (5YR 2.5/1) black, loose, moist, creosote odor and staining.  | P4-HSN-EE6A-0.0-0.5   |                       |  |  |                       |
| 2                    |                  |           |                  |      |             |  | P4-HSN-EE6A-2.0-2.5   |                       |  |  |                       |
| 3                    |                  |           |                  |      |             |  | P4-HSN-EE6A-4.0-4.5   |                       |  |  |                       |
| 4                    |                  |           |                  |      |             |  |                       |                       |  |  |                       |
| 5                    |                  |           |                  |      |             |  |                       |                       |  |  |                       |
| 6                    | 4                | 7.7       | slightly moist   | FILL |             | ASH, some cinders and creosote stained wood fragments, trace glass, (7.5YR 4/1) dark gray, loose, slightly moist, creosote odor.                   | P4-HSN-EE6A-6.0-6.5   |                       |  |  |                       |
| 7                    |                  |           |                  |      |             |  |                       |                       |  |  |                       |
| 8                    |                  |           |                  |      |             |  |                       |                       |  |  |                       |
| 9                    |                  |           |                  |      |             |  |                       |                       |  |  |                       |
| 10                   |                  |           |                  | NR   |             | NO RECOVERY  |                       |                       |  |  |                       |
| 11                   | 5                |           | moist            | FILL |             | fine SAND, little silt, trace fine gravel, cinders and wood fragments, (5YR 2.5/1) black, loose, moist, slight petroleum odor, petroleum staining. | P4-HSN-EE6A-10.0-10.5 |                       |  |  |                       |
| 12                   |                  |           |                  |      |             |  |                       | P4-HSN-EE6A-12.0-12.5 |  |  |                       |
| 13                   |                  |           |                  |      |             |  |                       | P4-HSN-EE6A-13.0-13.5 |  |  |                       |
| 14                   |                  |           |                  |      |             |  | moist                 | PT                    |  | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/4) dark brown, soft, moist, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-EE6A-13.5-14.0 |
| 15                   |                  |           |                  |      |             |  | moist                 | SP-SM                 |  | fine to medium SAND, little fine to medium gravel, (10YR 5/6) yellowish brown, loose, moist, no odor, no staining. Soils consistent with UNDno.                              |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611620.5  |
| <b>Date Started Drilling:</b> 5/10/2016 10:55:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683055.78 |
| <b>Date Finished Drilling:</b> 5/10/2016 12:30:00 PM | <b>Core Size:</b> 3 in                     | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID  |   |                       |                       |
|----------------------|------------------|-----------|------------------|------|-------------|--|--|---|-----------------------|-----------------------|
| 1                    | 4.5              | 0.0       | dry              | FILL |             | fine to medium SAND, little organics, trace concrete, brick and ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.   | P4-HSN-EE7A-0.0-0.5  |   |                       |                       |
| 2                    |                  |           |                  |      |             |  |  |   | P4-HSN-EE7A-2.0-2.5   |                       |
| 3                    |                  |           | dry              | FILL |             |  | Ash, trace coal, (9.5/2.5Y_1) white, loose, dry, no odor, no staining. | P4-HSN-EE7A-4.0-4.5   |                       |                       |
| 4                    |                  |           |                  |      |             |  |  |   |                       |                       |
| 5                    | 3.5              | 0.0       |                  | NR   |             | NO RECOVERY  |  |   |                       |                       |
| 6                    |                  |           | moist to wet     | FILL |             | Ash, trace wood and glass, (5Y 5/1) gray, loose, moist to wet, no odor, no staining, water at 7.0 feet bgs.  | P4-HSN-EE7A-6.0-6.5  |   |                       |                       |
| 7                    |                  |           |                  |      |             |  |  |   |                       |                       |
| 8                    |                  |           |                  |      |             |  |  |   |                       |                       |
| 9                    |                  |           |                  | NR   |             | NO RECOVERY  |  |   |                       |                       |
| 10                   | 5                | 0.0       | wet              | FILL |             | Ash, some fine to medium sand, (2.5Y 5/1) gray, loose, wet, no odor, no staining.  | P4-HSN-EE7A-10.0-10.5  |   |                       |                       |
| 11                   |                  |           |                  |      |             |  |  |   |                       |                       |
| 12                   |                  |           |                  |      |             |  |  |   |                       | P4-HSN-EE7A-12.0-12.5 |
| 13                   |                  |           |                  |      |             |  |  |   |                       |                       |
| 14                   |                  |           |                  |      |             |  | P4-HSN-EE7A-14.0-14.5  |   |                       |                       |
| 15                   | 5                | 0.0       | wet              | FILL |             | Ash, (7.5YR 5/1) gray, loose, wet, no odor, no staining.   | P4-HSN-EE7A-15.0-15.5  |   |                       |                       |
| 16                   |                  |           | dry              | PT   |             |  |  | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-EE7A-15.5-16.0 |                       |
| 17                   |                  |           |                  |      |             |  |  |   |                       |                       |
| 18                   |                  |           |                  |      |             |  |  |   |                       |                       |
| 19                   |                  |           | slightly moist   | OL   |             | Organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 4/2) brown, slightly moist, slight organic odor, no staining.   |  |   |                       |                       |
| 20                   |                  |           | wet              | SP   |             | Soils consistent with UNDorg.<br>fine to medium SAND, little fine to medium gravel. (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.<br>Soils consistent with UNDno. |  |   |                       |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611736.63 |
| <b>Date Started Drilling:</b> 4/28/2016 12:00:00 PM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683231.19 |
| <b>Date Finished Drilling:</b> 4/28/2016 2:00:00 PM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID            |                    |                    |  |  |  |                      |
|----------------------|------------------|-----------|------------------|---------|-------------|--|----------------------|--------------------|--------------------|--|--|--|----------------------|
| 0.0                  |                  |           |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |                      |                    |                    |  |  |  |                      |
| 1                    | 4                | 23.4      | moist            | FILL    |             | fine to medium SAND, some fine to medium gravel, little ash and cinders, (7.5YR 2.5/3) very dark brown, dense, moist, no odor, iron staining.                        | P4-HSN-FF0-1.0-1.5   |                    |                    |  |  |  |                      |
| 2                    |                  |           |                  |         |             |  |                      | P4-HSN-FF0-3.0-3.5 |                    |  |  |  |                      |
| 3                    |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 4                    |                  |           |                  |         |             |  | NR                   |                    | NO RECOVERY        |  |  |  |                      |
| 5                    | 5                | 23.4      | moist            | FILL    |             | fine to medium SAND, some fine to medium gravel, little ash and cinders, (7.5YR 3/3) dark brown, loose, moist, no odor, iron staining.                               | P4-HSN-FF0-5.0-5.5   |                    |                    |  |  |  |                      |
| 6                    |                  |           |                  |         |             |  |                      |                    | P4-HSN-FF0-7.0-7.5 |  |  |  |                      |
| 7                    |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 8                    |                  |           | moist            | FILL    |             | silty fine SAND, little ash, cinders and brick fragments, (7.5YR 3/2) dark brown, dense, moist, no odor, no staining.  | P4-HSN-FF0-9.0-9.5   |                    |                    |  |  |  |                      |
| 9                    | 5                | 262       | moist to wet     | FILL    |             | sandy SILT, trace cinders and organics, (10YR 5/2) grayish brown, soft, moist to wet, strong petroleum odor, product soaked, sheen, water at 10.5 feet bgs.          | P4-HSN-FF0-11.0-11.5 |                    |                    |  |  |  |                      |
| 10                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 11                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  | P4-HSN-FF0-13.0-13.5 |
| 12                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 13                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 14                   |                  |           |                  | SM      |             | fine to medium SAND, some interbedded silt, (5YR 4/3) reddish brown, loose, wet, strong petroleum odor, petroleum staining. Soils consistent with UNDno.             | P4-HSN-FF0-13.5-14.0 |                    |                    |  |  |  |                      |
| 15                   | 5                |           | wet to saturated | SP-SM   |             | fine to medium SAND, trace fine to coarse gravel, (5YR 4/4) reddish brown, loose, wet to saturated, slight petroleum odor, no staining. Soils consistent with UNDno. |                      |                    |                    |  |  |  |                      |
| 16                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 17                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 18                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 19                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |
| 20                   |                  |           |                  |         |             |  |                      |                    |                    |  |  |  |                      |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611727.56 |
| <b>Date Started Drilling:</b> 4/29/2016 8:50:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683202.46 |
| <b>Date Finished Drilling:</b> 4/29/2016 9:45:00 AM | <b>Core Size:</b> 2.5 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 14.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |  |   |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|--|---|
| 0.0                  |                  |           |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                       |  |   |
| 1                    | 4                | 0.0       | moist            | FILL    |             | ASH, some fine to medium sand and cinders, trace wood fragments, (10YR 4/2) dark grayish brown, loose, moist, no odor, no staining.   | P4-HSN-FF1A-1.0-1.5   |  |   |
| 2                    |                  |           |                  |         |             |   |                       |  |   |
| 3                    |                  |           |                  |         |             |   |                       |  | P4-HSN-FF1A-3.0-5.5   |
| 4                    |                  |           |                  |         |             |   | NR                    |  | NO RECOVERY   |
| 5                    | 3                | 0.0       | moist            | FILL    |             | ASH, some fine sand, little silt and cinders, trace wood fragments, (10YR 5/2) grayish brown, soft, moist, no odor, no staining.  | P4-HSN-FF1A-5.0-5.5   |  |   |
| 6                    |                  |           |                  |         |             |   |                       |  | P4-HSN-FF1A-6.0-6.5   |
| 7                    |                  |           |                  |         |             |   |                       |  |   |
| 8                    |                  |           |                  | NR      |             | NO RECOVERY   | P4-HSN-FF1A-8.0-8.5   |  |   |
| 9                    |                  |           |                  |         |             |   |                       |  |   |
| 10                   | 5                | 126       | moist            | FILL    |             | fine SAND, little silt, trace organics, cinders and wood fragments, (7.5YR 3/3) dark brown, moist, moderate petroleum odor, product staining.                                     | P4-HSN-FF1A-10.0-10.5 |  |   |
| 11                   |                  |           |                  |         |             |   |                       |  | P4-HSN-FF1A-10.8-11.3   |
| 12                   |                  |           |                  |         |             |   | ML                    |  | SILT, little fine sand, trace fine gravel, (10YR 4/6) dark yellowish brown, soft, wet, moderate petroleum odor, product staining, sheen, water at 11.3 feet bgs. Soils consistent with UNDno. |
| 13                   |                  |           |                  |         |             |   |                       |  |   |
| 14                   |                  |           |                  |         |             |   |                       |  |   |
| 15                   | 5                | 21        | saturated        | SP-SM   |             | fine to medium SAND, little interbedded silt, trace fine gravel, (5YR 3/4) dark reddish brown, loose, saturated, slight petroleum odor, no staining. Soils consistent with UNDno. |                       |  |   |
| 16                   |                  |           |                  |         |             |   |                       |  |   |
| 17                   |                  |           |                  |         |             |   |                       |  |   |
| 18                   |                  |           |                  |         |             |   |                       |  |   |
| 19                   |                  |           |                  |         |             |   |                       |  |   |
| 20                   | 1                | 3         | saturated        | SP-SM   |             | fine to medium SAND, little gravel, (5YR 3/4) dark reddish brown, loose, saturated, slight petroleum odor, no staining. Soils consistent with UNDno.                              |                       |  |   |
| 21                   |                  |           |                  |         |             |   |                       |  |   |

**Notes:**  
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**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611761.59 |
| <b>Date Started Drilling:</b> 5/6/2016 9:40:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683256.71 |
| <b>Date Finished Drilling:</b> 5/6/2016 10:50:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|
| 0.0 - 1.0            |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |                       |
| 1.0 - 2.0            | 4.5              | 0.0       | dry              | FILL    |             | fine to medium SAND, little medium gravel, (7.5YR 2.5/3) very dark brown, dry, no odor, no staining.                   | P4-HSN-FF1B-1.0-1.5   |
| 2.0 - 3.0            |                  |           | dry              | FILL    |             | CINDERS, little ash and fine gravel, (5YR 5/8) yellowish red, dry, no odor, no staining.                               | P4-HSN-FF1B-2.0-2.5   |
| 3.0 - 4.0            |                  |           | dry              | FILL    |             | fine to medium SAND, little fine gravel, (7.5YR 3/2) dark brown, dry, no odor, no staining                             |                       |
| 4.0 - 5.0            |                  |           | dry              | FILL    |             | CINDERS, little ash and fine gravel, (5YR 5/8) yellowish red, dry, no odor, no staining.                               |                       |
| 5.0 - 6.0            |                  |           | dry              | FILL    |             | fine to medium SAND, little silt and fine gravel, (7.5YR 4/3) brown, dry, no odor, no staining.                        |                       |
| 6.0 - 7.0            | 4.5              | 0.0       |                  | NR      |             | NO RECOVERY  |                       |
| 7.0 - 8.0            |                  |           | slightly moist   | FILL    |             | medium SAND, trace ceramics and brick, (7.5YR 3/2) dark brown, dry, no odor, no staining.                              | P4-HSN-FF1B-6.0-6.5   |
| 8.0 - 9.0            |                  |           | wet              | FILL    |             | fine SAND, trace ceramics, (7.5YR 2.5/3) very dark brown, slightly moist, no odor.                                     |                       |
| 9.0 - 10.0           |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 10.0 - 11.0          | 4                | 0.0       | wet              | FILL    |             | fine silty SAND, (7.5YR 4/2) brown, wet, no odor, no staining, water at 8.0 feet bgs.                                  | P4-HSN-FF1B-8.0-8.5   |
| 11.0 - 12.0          |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 12.0 - 13.0          |                  |           | wet              | SP-SM   |             | sandy SILT, (7.5YR 4/2) brown, wet, no odor, no staining.  | P4-HSN-FF1B-10.0-10.5 |
| 13.0 - 14.0          | 4                | 0.0       |                  | NR      |             | NO RECOVERY  | P4-HSN-FF1B-11.5-12.0 |
| 14.0 - 15.0          |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 15.0 - 16.0          | 4                | 0.0       | saturated        | SP-SM   |             | fine to medium SAND, some silt, (5YR 4/3) reddish brown, saturated, no odor, no staining. Soils consistent with UNDno. | P4-HSN-FF1B-12.0-12.5 |
| 16.0 - 17.0          |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 17.0 - 18.0          | 1                | 0.0       |                  | NR      |             | NO RECOVERY  |                       |
| 18.0 - 19.0          |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 19.0 - 20.0          | 1                | 0.0       | saturated        | SP-SM   |             | fine to medium SAND, some silt, (5YR 4/3) reddish brown, saturated, no odor, no staining. Soils consistent with UNDno. |                       |
| 20.0 - 21.0          |                  |           |                  | NR      |             | NO RECOVERY  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611712.58 |
| <b>Date Started Drilling:</b> 4/29/2016 10:00:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683174.66 |
| <b>Date Finished Drilling:</b> 4/29/2016 10:50:00 AM | <b>Core Size:</b>                          | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|-----------------------|
| 0-1                  |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |                       |                       |
| 1-2                  | 5                |           | slightly moist   | FILL    |             | fine to medium SAND, some ash and cinders, trace concrete and brick, (10YR 5/2) grayish brown, soft, slightly moist, no odor, no staining.   | P4-HSN-FF2A-1.0-1.5   |                       |
| 2-3                  |                  |           |                  |         |             |  | P4-HSN-FF2A-2.0-2.5   |                       |
| 3-4                  |                  |           |                  |         |             |  |                       | P4-HSN-FF2A-4.0-4.5   |
| 4-5                  |                  |           |                  |         |             |  |                       |                       |
| 5-6                  | 3                | 0.0       | slightly moist   | FILL    |             | fine to medium SAND, some concrete and brick, trace cinders, (5YR 3/4) dark reddish brown, loose, slightly moist, no odor, no staining.  | P4-HSN-FF2A-6.0-6.5   |                       |
| 6-8                  |                  |           |                  | NR      |             |  | NO RECOVERY           | P4-HSN-FF2A-8.0-8.5   |
| 8-10                 |                  |           |                  |         |             |  |                       |                       |
| 10-11                | 3.5              | 0.0       | wet              | FILL    |             | medium SAND, little interbedded brown silt and fine sand, trace brick, concrete and fine gravel, (5YR 4/4) reddish brown, loose, wet, no odor, no staining, water at 10.0 feet bgs.<br>SILT, trace fine sand, cinders and organics, (7.5YR 3/4) dark brown, moist, no odor, no staining.<br>SILT, (80% organic silt, 20% organic fibers), (7.5YR 2.5/2) very dark brown, moist, slight organic odor, no staining. Soils consistent with UNDorg.<br>sandy SILT, trace fine to medium gravel, (10YR 5/6) yellowish brown, soft, moist to wet, some mottling. Soils consistent with UNDno.<br>NO RECOVERY | P4-HSN-FF2A-10.0-10.5 |                       |
| 11-12                |                  |           | moist            | FILL    |             |  |                       | P4-HSN-FF2A-11.9-12.4 |
| 12-13                |                  |           | moist to wet     | OL      |             |  |                       | P4-HSN-FF2A-12.4-12.9 |
| 13-14                |                  |           | moist to wet     | ML      |             |  |                       | P4-HSN-FF2A-12.9-13.4 |
| 14-15                |                  |           |                  |         |             |  | NR                    |                       |
| 15-16                | 3                | 0.0       | moist to wet     | ML      |             | sandy SILT, trace fine to medium gravel, (10YR 5/6) yellowish brown, soft, moist to wet, no odor, no staining. Soils consistent with UNDorg.<br>fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, loose, wet to saturated, no odor, no staining. Soils consistent with UNDno.<br>NO RECOVERY  |                       |                       |
| 16-17                |                  |           | wet to saturated | SP      |             |  |                       |                       |
| 17-18                |                  |           |                  |         | NR          |  |                       |                       |
| 18-20                |                  |           |                  |         |             |  |                       |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611768.06 |
| <b>Date Started Drilling:</b> 5/13/2016 10:50:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683282.43 |
| <b>Date Finished Drilling:</b> 5/13/2016 12:30:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 10.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS  | Graphic Log | Surface Cover and Thickness:  | Sample ID  |                     |
|----------------------|------------------|-----------|------------------|-------|-------------|---|--|---------------------|
| 1-5                  | 4.5              | 0.0       | dry              | FILL  |             | DGA, (7.5YR 4/2) brown, dry, no odor, no staining.  |  |                     |
|                      |                  |           | moist            | FILL  |             | fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.                                       | P4-HSN-FF2B-0.5-1.0  |                     |
|                      |                  |           | moist            | FILL  |             | fine silty SAND, little fine gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  | P4-HSN-FF2B-2.0-2.5  |                     |
|                      |                  |           |                  |       |             |   |  |                     |
|                      |                  |           |                  | NR    |             | NO RECOVERY   |  |                     |
| 6-10                 | 4.5              | 0.0       | moist            | FILL  |             | fine silty SAND, little fine gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  |  |                     |
|                      |                  |           | moist            | FILL  |             | fine to coarse SAND, some medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining, water at 6.0 feet bgs.               |  |                     |
|                      |                  |           | moist            | FILL  |             | fine SAND, (7.5YR 5/2) brown, medium dense, moist, no odor, no staining.  | P4-HSN-FF2B-7.0-7.5  |                     |
|                      |                  |           | moist            | SP-SC |             |   | fine SAND, some silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno. | P4-HSN-FF2B-7.5-8.0 |
|                      |                  |           |                  | NR    |             | NO RECOVERY   |  |                     |
| 11-15                | 4.5              | 0.0       | moist            | SP-SC |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno. |  |                     |
|                      |                  |           | wet              | SP-SC |             | fine to coarse SAND, trace medium gravel, (5YR 3/3) dark reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno.            |  |                     |
|                      |                  |           |                  | NR    |             | NO RECOVERY   |  |                     |
| 16-20                | 5                | 0.0       | wet              | SP-SC |             | fine to coarse SAND, trace medium gravel, (5YR 3/3) dark reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno.            |  |                     |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611700.417 |
| <b>Date Started Drilling:</b> 12/1/2016 11:50:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683157.315 |
| <b>Date Finished Drilling:</b> 12/1/2016 12:30:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft             |
| <b>Logged By:</b> Eric Stone                         | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> 5                     |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.1 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|------|-------------|---|-----------------------|-----------------------|
| 0-1                  | 5                | 0.0       |                  | FILL |             | Asphalt and gravel sub-base   |                       |                       |
| 1-2                  |                  |           | dry              | FILL |             | fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.  | P4-HSN-FF3A-0.5-1.0   |                       |
| 2-3                  |                  |           |                  |      |             |   | P4-HSN-FF3A-2.0-2.5   |                       |
| 3-4                  |                  |           |                  |      |             |   | P4-HSN-FF3A-4.0-4.5   |                       |
| 4-5                  |                  |           |                  |      |             |   |                       |                       |
| 5-6                  | 3.5              | 606       | moist            | FILL |             | fine to medium SAND, some ash, little fine gravel and concrete debris, (7.5YR 4/3) brown, medium dense, wet, slight gasoline-like odor, no staining, water at 5.0 feet. | P4-HSN-FF3A-6.0-6.5   |                       |
| 6-7                  |                  |           |                  |      |             |   |                       |                       |
| 7-8                  |                  |           | moist            | FILL |             | SILT, little fine sand and ash, (7.5YR 4/3) brown, soft, moist, no odor, no staining.   | P4-HSN-FF3A-8.0-8.5   |                       |
| 8-9                  |                  |           |                  | NR   |             | NO RECOVERY   |                       |                       |
| 9-10                 | 5                | 95.7      | wet              | FILL |             | fine to medium silty SAND, little fine gravel and fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.  | P4-HSN-FF3A-10.0-10.5 |                       |
| 10-11                |                  |           |                  |      |             |   |                       | P4-HSN-FF3A-11.5-12.0 |
| 11-12                |                  |           | dry              | OL   |             | Organic SILT, 60% organic fibers, 40% organic silt, (7.5YR 3/3) dark brown, soft, dry slight organic odor, no staining. Soils consistent with UNDorg.                   | P4-HSN-FF3A-12.0-12.5 |                       |
| 12-13                |                  |           |                  |      |             |   |                       |                       |
| 13-14                |                  |           |                  |      |             |   |                       | P4-HSN-FF3A-14.0-14.5 |
| 14-15                | 5                | 0.0       | wet              | SM   |             | fine silty SAND, some organic fibers, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDorg.                                  |                       |                       |
| 15-16                |                  |           |                  |      |             |   | P4-HSN-FF3A-16.0-16.5 |                       |
| 16-17                |                  |           |                  |      |             |   |                       |                       |
| 17-18                |                  |           | wet              | SP   |             | fine to medium SAND, little fine to medium gravel, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                             | P4-HSN-FF3A-18.0-18.5 |                       |
| 18-19                |                  |           | wet              | SW   |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.                                |                       |                       |
| 19-20                |                  |           |                  |      |             | P4-HSN-FF3A-20.0-20.5   |                       |                       |
| 20-21                | 1                | 0.0       |                  |      |             |   |                       |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT. - 1/17/17 14:30



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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611766.63 |
| <b>Date Started Drilling:</b> 5/12/2016 7:10:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683224.56 |
| <b>Date Finished Drilling:</b> 5/12/2016 8:45:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> HBB                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID   |                    |
|----------------------|------------------|-----------|------------------|---------|-------------|--|---|--------------------|
|                      |                  | 0         |                  | ASPHALT |             | Asphalt and gravel sub-base.   |   |                    |
| 1                    | 5                |           | dry to moist     | FILL    |             | fine to coarse SAND, trace coal, brick and cinders, (7.5YR 3/1) very dark gray, dense, dry to moist, no odor, no staining.   | P4-HSN-GG0-0.5-1.0  |                    |
| 2                    |                  |           |                  |         |             |  | P4-HSN-GG0-2.5-3.0  |                    |
| 3                    |                  |           |                  |         |             |  |   | P4-HSN-GG0-4.5-5.0 |
| 4                    |                  |           | moist            | FILL    |             |  | Ash, (5Y 5/1) gray, loose, moist, slight petroleum odor, no staining. |                    |
| 5                    | 4                | 4         | moist            | FILL    |             | fine to medium SAND, some fine to medium gravel, trace ash, concrete and fill debris, (7.5YR 4/2) brown, medium dense, moist, slight petroleum odor, no staining.          |   |                    |
| 6                    |                  |           |                  |         |             |  | P4-HSN-GG0-6.5-7.0  |                    |
| 7                    |                  |           |                  |         |             |  |   |                    |
| 8                    |                  |           |                  |         |             |  |   |                    |
| 9                    |                  |           |                  | FILL    |             | fine to medium silty SAND, trace ash, concrete and fill debris, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining, water at 8.5 feet bgs.<br>NO RECOVERY | P4-HSN-GG0-8.5-9.0  |                    |
| 10                   |                  |           | NR               |         |             |  |   |                    |
| 11                   | 5                | 50        | wet              | FILL    |             | sandy SILT, (7.5YR 4/2) brown, medium dense, wet, slight petroleum odor, no staining.  | P4-HSN-GG0-10.5-11.0  |                    |
| 12                   |                  |           |                  |         |             |  |   |                    |
| 13                   |                  | 44        | saturated        | FILL    |             | fine to medium silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, moderate petroleum odor, product staining, sheen.                          | P4-HSN-GG0-12.5-13.0  |                    |
| 14                   |                  |           | saturated        | SP      |             |  | P4-HSN-GG0-13.0-13.5  |                    |
| 15                   |                  |           |                  |         |             | fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |   |                    |
| 16                   |                  | 10        | wet              | SP      |             |  |   |                    |
| 17                   | 5                |           |                  |         |             |  |   |                    |
| 18                   |                  |           |                  |         |             | fine to coarse SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |   |                    |
| 19                   |                  |           |                  |         |             |  |   |                    |
| 20                   | 1                | 0         | wet              | SP      |             |  |   |                    |
| 21                   |                  |           |                  |         |             |  |   |                    |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT - 10/04/16 09:25

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611750.212 |
| <b>Date Started Drilling:</b> 12/1/2016 9:20:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683191.412 |
| <b>Date Finished Drilling:</b> 12/1/2016 10:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft             |
| <b>Logged By:</b> Eric Stone                         | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> 5                     |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.2 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID             |   |                       |
|----------------------|------------------|-----------|------------------|------|-------------|--|-----------------------|---|-----------------------|
| 1-5                  | 4.5              | 0.0       | dry              | FILL |             | Asphalt and gravel sub-base  | P4-HSN-GG1A-0.2-0.7   |   |                       |
|                      |                  |           |                  | FILL |             |  |                       | fine to medium SAND, some ash, little fill debris, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.   |                       |
|                      |                  |           | dry              | FILL |             | fine to medium SAND, little silt, trace concrete debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.   | P4-HSN-GG1A-2.0-2.5   |   |                       |
|                      |                  |           |                  | NR   |             |  | NO RECOVERY           | P4-HSN-GG1A-4.0-4.5   |                       |
| 6-10                 | 3.5              | 141       | wet              | FILL |             | fine to medium silty SAND, some fine gravel, little ash, (7.5YR 4/3) brown, medium dense, wet, moderate gasoline-like odor, faint fuel oil and solvent-like odors, product stained, water at 5.0 feet. | P4-HSN-GG1A-6.0-6.5   |   |                       |
|                      |                  |           |                  | NR   |             |  |                       | NO RECOVERY   |                       |
|                      |                  |           | moist            | FILL |             | fine to medium SAND, trace fill debris, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.  | P4-HSN-GG1A-8.0-8.5   |   |                       |
|                      |                  |           |                  | NR   |             |  |                       | NO RECOVERY   |                       |
| 11-15                | 5                | 10.8      | moist to wet     | FILL |             | fine to medium SAND, little silt, trace ash and fill debris, (7.5YR 3/3) dark brown, medium dense, moist to wet, no odor, no staining.   | P4-HSN-GG1A-10.0-10.5 |   |                       |
|                      |                  |           |                  | ML   |             |  |                       | SILT, (2.5Y 6/2) light brownish gray, soft, wet, slight gasoline-like odor, no staining. Soils consistent with UNDno. |                       |
|                      |                  |           |                  |      |             |  |                       |   | P4-HSN-GG1A-11.0-11.5 |
|                      |                  |           |                  |      |             |  |                       |   | P4-HSN-GG1A-12.0-12.5 |
| 16-20                | 5                | 0.0       | wet              | SM   |             | fine to medium silty SAND, some fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  | P4-HSN-GG1A-16.0-16.5 |   |                       |
|                      |                  |           |                  |      |             |  |                       |   |                       |
|                      |                  |           |                  |      |             |  |                       |   | P4-HSN-GG1A-14.0-14.5 |
|                      |                  |           |                  |      |             |  |                       |   | P4-HSN-GG1A-18.0-18.5 |
| 20-21                | 1                | 0.0       | wet              | SP   |             | fine to coarse SAND, little fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  | P4-HSN-GG1A-20.0-20.5 |   |                       |

**Notes:**  
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 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT. - 1/17/17 14:30

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|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611780.64 |
| <b>Date Started Drilling:</b> 5/6/2016 9:45:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683244.03 |
| <b>Date Finished Drilling:</b> 5/6/2016 11:00:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|
| 1                    | 3.5              | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base.  |                       |
| 2                    |                  |           | dry              | FILL    |             | fine to medium SAND, some gravel, little ash, (2.5Y 5/2) grayish brown, medium dense, dry, no odor, no staining.                  | P4-HSN-GG1B-1.5-2.0   |
| 3                    |                  |           |                  | NR      |             | NO RECOVERY   |                       |
| 4                    |                  |           |                  |         |             |   |                       |
| 5                    | 5                | 0.0       | moist            | FILL    |             | fine SAND, some silt, little fine gravel, (5YR 4/3) reddish brown, dense, moist, no odor, no staining.                            | P4-HSN-GG1B-5.0-5.5   |
| 6                    |                  |           | wet              | FILL    |             | silty SAND, trace ash, (7.5YR 4/2) brown, soft, wet, no odor, no staining, water at 6.5 feet bgs.                                 | P4-HSN-GG1B-7.0-7.5   |
| 7                    |                  |           |                  |         |             |   |                       |
| 8                    |                  |           |                  |         |             |   |                       |
| 9                    |                  |           |                  |         |             |   |                       |
| 10                   | 5                | 0.0       | wet              | FILL    |             | silty SAND, trace ash, (7.5YR 4/2) brown, soft, wet, slight petroleum odor, no staining, light sheen.                             | P4-HSN-GG1B-10.8-11.3 |
| 11                   |                  |           | wet              | SM      |             | sandy SILT, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                        | P4-HSN-GG1B-11.3-11.8 |
| 12                   |                  |           |                  |         |             |   |                       |
| 13                   |                  |           |                  |         |             |   |                       |
| 14                   |                  |           |                  |         |             |   |                       |
| 15                   | 5                | 0.0       | wet              | SP      |             | fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.               |                       |
| 16                   |                  |           | wet              | SW      |             | fine to coarse SAND, some gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |                       |
| 17                   |                  |           |                  |         |             |   |                       |
| 18                   | 1                | 0.0       | wet              | SW      |             | fine to coarse SAND, some gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |                       |
| 19                   |                  |           |                  |         |             |   |                       |
| 20                   |                  |           |                  |         |             |   |                       |
| 21                   |                  |           |                  |         |             |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT. - 10/4/16 09:25

|  |  |  |
|--|--|--|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |  |
| <b>Project Number:</b> 60240739                      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611734.551 |
| <b>Date Started Drilling:</b> 12/1/2016 10:50:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683173.292 |
| <b>Date Finished Drilling:</b> 12/1/2016 11:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft             |
| <b>Logged By:</b> Eric Stone                         | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> 5                     |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.0 ft NAVD88     |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID   |  |                       |
|----------------------|------------------|-----------|------------------|------|-------------|---|---|--|-----------------------|
|                      |                  | 0.0       |                  | FILL |             | Asphalt and gravel sub-base   |   |  |                       |
| 1                    | 4.5              |           | dry              | FILL |             | fine to medium SAND, little ash and fill debris, trace coal, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.  | P4-HSN-GG2A-0.8-1.3   |  |                       |
| 2                    |                  |           |                  |      |             |   | P4-HSN-GG2A-2.0-2.5   |  |                       |
| 3                    |                  |           |                  |      |             |   |   |  |                       |
| 4                    |                  |           | moist            | FILL |             |   | fine to medium SAND, some ash, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining.  | P4-HSN-GG2A-4.0-4.5  |                       |
| 5                    | 3.5              | 459       |                  | NR   |             | NO RECOVERY   |   |  |                       |
| 6                    |                  |           | wet              | FILL |             | fine to medium SAND, some fill debris, little fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, strong gasoline-like odor, no staining, water at 5.0 feet. | P4-HSN-GG2A-6.0-6.5   |  |                       |
| 7                    |                  |           |                  |      |             |   |   |  |                       |
| 8                    |                  |           |                  |      |             |   |   |  |                       |
| 9                    |                  |           |                  | NR   |             | NO RECOVERY   |   |  |                       |
| 10                   | 5                | 665       | wet              | FILL |             | fine to medium SAND, little wood, trace fine gravel, (7.5YR 4/3) brown, medium dense, wet, strong gasoline-like odor, no staining.  | P4-HSN-GG2A-10.0-10.5   |  |                       |
| 11                   |                  |           |                  |      |             |   | P4-HSN-GG2A-11.5-12.0   |  |                       |
| 12                   |                  |           | dry              | SP   |             |   | fine to medium SAND, little silt, trace organics, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. Soils consistent with UNDorg. | P4-HSN-GG2A-12.0-12.5  |                       |
| 13                   |                  |           |                  |      |             |   |   |  |                       |
| 14                   |                  |           | moist            | OL   |             | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/3) dark brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.                                | P4-HSN-GG2A-14.0-14.5   |  |                       |
| 15                   |                  |           | wet              | OL   |             |   |   |  |                       |
| 16                   | 5                | 0.0       | wet              | ML   |             | Organic SILT, 90% organic silt, 10% organic fibers, (2.5Y 6/2) light brownish gray, soft, wet, no odor, no staining. Soils consistent with UNDorg.                          | P4-HSN-GG2A-16.0-16.5   |  |                       |
| 17                   |                  |           |                  |      |             |   |   |  |                       |
| 18                   |                  |           |                  |      | wet         | SP  |   | fine to medium SAND, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | P4-HSN-GG2A-18.0-18.5 |
| 19                   |                  |           |                  |      |             |   |   |  |                       |
| 20                   | 1                | 0.0       | wet              | SW   |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.                                    | P4-HSN-GG2A-20.0-20.5   |  |                       |
| 21                   |                  |           |                  |      |             |   |   |  |                       |

**Notes:**  
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611793.1  |
| <b>Date Started Drilling:</b> 4/29/2016 10:40:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683269.31 |
| <b>Date Finished Drilling:</b> 4/29/2016 12:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID   |
|----------------------|------------------|-----------|------------------|---------|-------------|--|---|
| 1                    | 4                | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base  |   |
| 2                    |                  |           | dry              | FILL    |             | fine to medium SAND, little medium gravel, trace brick fragments, (7.5YR 3/2) dark brown, dry, no odor, no staining.<br>medium SAND, (7.5YR 6/3) light brown, dry, no odor, no staining.                   | P4-HSN-GG2B-1.5-2.0   |
| 3                    |                  |           | dry              | FILL    |             |  | P4-HSN-GG2B-3.0-3.5   |
| 4                    |                  |           |                  | NR      |             | NO RECOVERY  |   |
| 5                    | 4.5              | 0.0       | dry              | FILL    |             | medium SAND, (7.5YR 6/3) light brown, dry, no odor, no staining.<br>silty SAND, trace fine gravel, (7.5YR 2.5/3) very dark brown, slightly moist, slight petroleum odor, product staining at 9.0 feet bgs. | P4-HSN-GG2B-5.0-5.5   |
| 6                    |                  |           | slightly moist   | FILL    |             |  | P4-HSN-GG2B-7.0-7.5   |
| 8                    |                  |           | 63.0             |         |             |  | P4-HSN-GG2B-9.0-9.5   |
| 10                   |                  |           | 58.0             |         | NR          |  | NO RECOVERY   |
| 11                   | 3.5              | 0.0       | wet              | FILL    |             | fine to medium SAND, trace silt and medium to coarse gravel, (7.5YR 3/1) very dark gray, wet, no odor, no staining, water at 10.0 feet bgs.  | P4-HSN-GG2B-11.0-11.5   |
| 12                   |                  |           | wet              | SM      |             |  | medium SAND, trace silt and coarse gravel, (5YR 4/4) reddish brown, wet, no odor, no staining. Soils consistent with UNDno. |
| 14                   |                  |           |                  | NR      |             | NO RECOVERY  |   |
| 15                   | 5                | 94.0      | wet              | SM      |             | medium SAND, trace silt and coarse gravel, (5YR 4/4) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.  |   |
| 16                   |                  |           |                  |         |             |  |   |
| 20                   |                  |           | 1                | 72.3    | wet         | SM   |   |
| 21                   |                  |           |                  |         |             |  |   |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611808.25 |
| <b>Date Started Drilling:</b> 4/28/2016 9:45:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683296.34 |
| <b>Date Finished Drilling:</b> 4/28/2016 11:00:00 AM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID           |
|----------------------|------------------|-----------|------------------|---------|-------------|--|---------------------|
| 0                    |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |                     |
| 1                    | 4                |           | slightly moist   | FILL    |             | fine to medium SAND, little ash, cinders and fine to coarse gravel, trace brick fragments, (7.5YR 2.5/3) very dark brown, dense, slightly moist, no odor, no staining. | P4-HSN-GG3B-1.0-1.5 |
| 2                    |                  |           |                  |         |             |  | P4-HSN-GG3B-3.0-3.5 |
| 3                    |                  |           |                  |         |             |  |                     |
| 4                    |                  |           |                  |         |             |  |                     |
| 5                    | 5                | 534       | moist            | FILL    |             | sandy SILT, little fine to medium gravel, (10YR 5/4) yellowish brown, soft, moist, moderate petroleum odor, no staining.   | P4-HSN-GG3B-5.0-5.5 |
| 6                    |                  |           |                  |         |             |  |                     |
| 7                    |                  |           |                  |         |             |  |                     |
| 8                    | 3.7              | 1680      | moist            | SM      |             | fine SAND, some interbedded silt, (5YR 4/4) reddish brown, dense, moist, strong petroleum odor, no staining, light sheen. Soils consistent with UNDno.                 | P4-HSN-GG3B-7.5-8.0 |
| 9                    |                  |           |                  |         |             |  |                     |
| 10                   |                  |           |                  |         |             |  |                     |
| 11                   | 3                | 945       | moist            | SM      |             | fine SAND, some interbedded silt, (5YR 4/4) reddish brown, dense, moist, strong petroleum odor, no staining, sheen. Soils consistent with UNDno.                       |                     |
| 12                   |                  |           |                  |         |             |  |                     |
| 13                   |                  |           |                  |         |             |  |                     |
| 14                   |                  |           |                  |         |             |  |                     |
| 15                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 16                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 17                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 18                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 19                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |
| 20                   |                  |           |                  | NR      |             | NO RECOVERY  |                     |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:25

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611827.84 |
| <b>Date Started Drilling:</b> 4/28/2016 8:30:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683317.89 |
| <b>Date Finished Drilling:</b> 4/28/2016 9:30:00 AM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID  |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|---|--|-----------------------|
| 1                    | 4                | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |  |                       |
| 2                    |                  |           | wet              | FILL    |             | CINDERS, some ash, little fine to medium gravel, crushed brick and concrete, (5YR 2.5/1) black, loose, wet, no odor, no staining. |  |                       |
| 3                    |                  |           | slightly moist   | FILL    |             | fine to medium SAND, (7.5YR 3/3) dark brown, loose, slightly moist, no odor, no staining.   |  |                       |
| 4                    |                  |           |                  | NR      |             | NO RECOVERY   |  |                       |
| 5                    | 5                | 0.0       | moist to wet     | FILL    |             | sandy SILT, (10YR 5/4) yellowish brown, soft, moist, no odor, no staining, water at 7.2 feet bgs.                                 |  |                       |
| 6                    |                  |           | wet              | FILL    |             | silty fine to medium SAND, little medium to coarse gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining.             | P4-HSN-GG4B-7.0-7.5  |                       |
| 8                    |                  |           |                  |         |             |   | P4-HSN-GG4B-9.0-9.5  |                       |
| 9                    | 4                | 0.0       | wet              | FILL    |             | silty fine to medium SAND, little medium to coarse gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining.             | P4-HSN-GG4B-10.0-10.5  |                       |
| 10                   |                  |           |                  | SP-SM   |             |   | fine to medium SAND, some interbedded silt, trace medium gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno. | P4-HSN-GG4B-10.5-11.0 |
| 11                   |                  |           | NR               |         |             |   | NO RECOVERY  |                       |
| 12                   |                  |           |                  |         |             |   |  |                       |
| 13                   | 0.8              | 0.0       | saturated        | SP-SM   |             | fine SAND, (5YR 4/3) reddish brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.                          |  |                       |
| 14                   |                  |           | NR               |         |             |   | NO RECOVERY  |                       |
| 15                   |                  |           |                  |         |             |   |  |                       |
| 16                   |                  |           |                  |         |             |   |  |                       |
| 17                   |                  |           |                  |         |             |   |  |                       |
| 18                   |                  |           |                  |         |             |   |  |                       |
| 19                   |                  |           |                  |         |             |   |  |                       |
| 20                   |                  |           |                  |         |             |   |  |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:26

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|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611839.86 |
| <b>Date Started Drilling:</b> 5/12/2016 9:40:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683348.45 |
| <b>Date Finished Drilling:</b> 5/12/2016 11:05:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> HBB                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 12.5 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|------|-------------|--|-----------------------|-----------------------|
| 1                    | 3.5              | 0.0       | dry              | FILL |             | DGA, (5Y 5/1) gray, dry, no odor, no staining.   |                       |                       |
| 2                    |                  |           | moist            | FILL |             | fine SAND, trace brick and asphalt, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.  | P4-HSN-GG5B-1.0-1.5   |                       |
| 3                    |                  |           |                  |      |             |  |                       | P4-HSN-GG5B-3.0-3.5   |
| 4                    |                  |           |                  | NR   |             | NO RECOVERY  |                       |                       |
| 5                    | 4.5              | 32        | moist            | FILL |             | fine SAND, trace wood, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.   | P4-HSN-GG5B-5.0-5.5   |                       |
| 6                    |                  |           | moist            | FILL |             | fine to medium SAND, trace fine gravel and ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining, water at 6.0 feet bgs.                   |                       |                       |
| 7                    |                  |           |                  |      |             |  |                       | P4-HSN-GG5B-7.0-7.5   |
| 8                    |                  |           | moist            | FILL |             | fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, moist, slight petroleum odor, no staining.                                     |                       |                       |
| 9                    |                  |           |                  | NR   |             | NO RECOVERY  | P4-HSN-GG5B-9.0-9.5   |                       |
| 10                   | 5                | 12.5      | dry              | FILL |             | SILT, trace fill debris, (7.5YR 4/3) brown, medium stiff, dry, no odor, no staining.   |                       |                       |
| 11                   |                  |           |                  |      |             |  |                       | P4-HSN-GG5B-11.0-11.5 |
| 12                   |                  |           | moist            | SP   |             | fine to medium SAND, some medium gravel, (5YR 4/3) reddish brown, dense, moist, slight petroleum odor and black staining. Soils consistent with UNDno. | P4-HSN-GG5B-11.5-12.0 |                       |
| 13                   |                  |           |                  |      |             |  |                       |                       |
| 14                   |                  |           |                  |      |             |  |                       |                       |
| 15                   | 5                | 3.0       | moist            | SP   |             | fine silty SAND, (5YR 4/3) reddish brown, medium dense, moist, slight petroleum odor and black staining. Soils consistent with UNDno.                  |                       |                       |
| 16                   |                  |           | wet              | SP   |             | fine to coarse SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                                    |                       |                       |
| 17                   |                  |           |                  |      |             |  |                       |                       |
| 18                   |                  |           |                  |      |             |  |                       |                       |
| 19                   |                  |           |                  |      |             |  |                       |                       |
| 20                   | 1                | 0         | moist            | SP   |             | fine SAND, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.  |                       |                       |
| 21                   |                  |           | moist            | SP   |             | fine SAND, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.  |                       |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



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| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> direct push        | <b>Coordinates (NJSPNAD83) x:</b> 611800.36 |
| <b>Date Started Drilling:</b> 5/6/2016 8:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683234.97 |
| <b>Date Finished Drilling:</b> 5/6/2016 9:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> MI                               | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 14.4 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |                       |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|-----------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base.  |                       |                       |
| 1                    | 4                |           | dry              | FILL    |             | fine to coarse SAND, trace ash and glass, (7.5YR 2.5/2) very dark brown, medium dense, dry, no odor, no staining.                               | P4-HSN-HH1B-1.0-1.5   |                       |
| 2                    |                  |           | moist            | FILL    |             | silty SAND, little fine gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.   | P4-HSN-HH1B-3.0-3.5   |                       |
| 3                    |                  |           |                  |         |             |   |                       |                       |
| 4                    |                  |           |                  |         | NR          |   |                       | NO RECOVERY           |
| 5                    | 5                | 2.0       | wet              | FILL    |             | silty SAND, trace ash, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining, water at 5.0 feet bgs.                                 | P4-HSN-HH1B-5.0-5.5   |                       |
| 6                    |                  |           | wet              | FILL    |             | silty SAND, trace organics, coal and glass, (7.5YR 4/2) brown, wet, slight petroleum odor, no staining.   | P4-HSN-HH1B-7.0-7.5   |                       |
| 7                    |                  |           |                  |         |             |   |                       |                       |
| 8                    |                  |           |                  |         |             |   |                       |                       |
| 9                    |                  |           |                  |         |             |   | P4-HSN-HH1B-9.0-9.5   |                       |
| 10                   | 5                | 3.0       | wet              | FILL    |             | Silt, some fine gravel, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.   |                       |                       |
| 11                   |                  |           | wet              | FILL    |             | Silt, little fine gravel, (2.5Y 5/2) grayish brown, soft, wet, slight petroleum odor, no staining, sheen at 11.5 feet bgs.                      | P4-HSN-HH1B-11.0-11.5 |                       |
| 12                   |                  |           |                  |         |             |   |                       | P4-HSN-HH1B-12.0-12.5 |
| 13                   |                  |           | wet              | SP      |             | silty SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                    | P4-HSN-HH1B-12.5-13.0 |                       |
| 14                   |                  |           |                  |         |             |   |                       |                       |
| 15                   | 5                | 0.0       | wet              | SP      |             | silty SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.                    |                       |                       |
| 16                   |                  |           |                  |         |             |   |                       |                       |
| 17                   |                  |           |                  |         |             |   |                       |                       |
| 18                   |                  |           |                  |         |             |   |                       |                       |
| 19                   |                  |           | wet              | SP      |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |                       |                       |
| 20                   | 1                | 0.0       | wet              | SP      |             | fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. |                       |                       |
| 21                   |                  |           |                  |         |             |   |                       |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611821.43 |
| <b>Date Started Drilling:</b> 4/28/2016 9:50:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683255.67 |
| <b>Date Finished Drilling:</b> 4/28/2016 11:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log | Surface Cover and Thickness:  | Sample ID  |   |
|----------------------|------------------|-----------|------------------|--------------|-------------|---|--|---|
| 0.0                  |                  |           |                  | ASPHALT      |             | ASPHALT   |  |   |
| 1                    | 5                | 0.0       | dry              | FILL         |             | fine to medium SAND, some medium gravel and brick fragments, (7.5YR 2.5/3) very dark brown, dry, no odor, no staining.  | P4-HSN-HH2B-0.3-0.8  |   |
| 2                    |                  |           | dry              | FILL         |             | medium to coarse SAND, little ceramics and coal fragments, (7.5YR 3/2) dark brown, dry, no odor, no staining.   |  |   |
| 3                    |                  |           |                  |              |             |   |  |   |
| 4                    |                  |           | dry              | FILL         |             | fine SAND, little coal fragments and ash, (7.5YR 3/1) very dark gray, dry, no odor.   |  |   |
| 5                    | 5                | 873       | moist            | FILL         |             | SILT, some fine sand, little brick fragments and cinders, trace fibers, (7.5YR 2.5/3) very dark brown, soft, moist, strong petroleum odor, petroleum staining.  |  |   |
| 6                    |                  |           |                  |              |             |   |  |   |
| 7                    |                  |           | 1198             | moist to wet | ML          |   | sandy SILT, trace fine gravel, (10YR 5/4) yellowish brown, moist to wet, strong petroleum odor, petroleum staining, sheen, water at 9.0 feet bgs. Soils consistent with UNDno. | P4-HSN-HH2B-7.0-7.5<br>P4-HSN-HH2B-7.5-8.0<br>P4-HSN-HH2B-8.0-8.5 |
| 8                    |                  |           |                  |              |             |   |  |   |
| 9                    |                  |           |                  |              |             |   |  |   |
| 10                   | 5                | 1198      | moist to wet     | ML           |             | sandy SILT, trace fine gravel, (10YR 5/4) yellowish brown, moist to wet, strong petroleum odor, petroleum odor, sheen. Soils consistent with UNDno.   |  |   |
| 11                   |                  |           | wet to saturated | SM           |             | fine SAND, some interbedded silt, (5YR 3/4) dark reddish brown, dense, wet to saturated, strong petroleum odor, product soaked, sheen, free product at 14.0-15.0 feet bgs. Soils consistent with UNDno. | P4-HSN-HH2B-14.0-14.5  |   |
| 12                   |                  |           |                  |              |             |   |  |   |
| 13                   |                  |           |                  |              |             |   |  |   |
| 14                   |                  |           |                  |              |             |   |  |   |
| 15                   | 5                | 1520      | wet to saturated | SM           |             | fine SAND, some interbedded silt, (5YR 3/4) dark reddish brown, medium dense, wet to saturated, strong petroleum odor, product staining, sheen. Soils consistent with UNDno.                            |  |   |
| 16                   |                  |           | 410              |              |             |   |  | P4-HSN-HH2B-16.0-16.5   |
| 17                   |                  |           |                  |              |             |   |  |   |
| 18                   |                  |           |                  |              |             |   |  |   |
| 19                   |                  |           |                  |              |             |   |  |   |
| 20                   | 1                |           |                  |              |             |   | P4-HSN-HH2B-20.0-20.5  |   |
| 21                   |                  |           |                  |              |             |   |  |   |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611835.07 |
| <b>Date Started Drilling:</b> 4/28/2016 8:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683282.46 |
| <b>Date Finished Drilling:</b> 4/28/2016 9:45:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID            |   |
|----------------------|------------------|-----------|------------------|---------|-------------|---|----------------------|---|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT   |                      |   |
| 1                    | 5                | 0.0       | dry              | FILL    |             | fine to medium SAND, some medium gravel and crushed concrete, (7.5YR 3/2) dark brown, dry, no odor, no staining.                  | P4-HSN-HH3B-0.3-0.8  |   |
| 2                    |                  |           | dry              | FILL    |             | fine to medium SAND, trace coal fragments, (7.5YR 3/2) dark brown, dry, no odor, no staining.                                     | P4-HSN-HH3B-2.0-2.5  |   |
| 3                    |                  |           |                  |         |             |   |                      |   |
| 4                    |                  |           | dry              | FILL    |             | medium SAND, some medium to coarse gravel and brick, (7.5YR 3/2) dark brown, dry, no odor, no staining.                           | P4-HSN-HH3B-4.0-4.5  |   |
| 5                    | 5                | 0.0       | dry              | FILL    |             | fine to medium SAND, trace coal fragments, (7.5YR 2.5/3) very dark brown, dry, no odor, no staining.                              |                      |   |
| 6                    |                  |           | slightly moist   | FILL    |             | fine SAND, some silt, (7.5YR 5/1) gray, slightly moist, no odor, no staining.   | P4-HSN-HH3B-6.0-6.5  |   |
| 7                    |                  |           |                  |         |             |   |                      |   |
| 8                    |                  | 63.0      | wet              | FILL    |             | fine silty SAND, (5YR 4/4) reddish brown, wet, no staining, sheen, petroleum-like odor, water at 8.0 feet bgs.                    | P4-HSN-HH3B-8.0-8.5  |   |
| 9                    |                  |           |                  |         |             | P4-HSN-HH3B-9.2-9.7   |                      |   |
| 10                   | 5                | 58.0      | wet              | SP-SM   |             | fine SAND, (5YR 5/4) reddish brown, wet, no staining, sheen, petroleum-like odor. Soils consistent with UNDno.                    | P4-HSN-HH3B-9.7-10.2 |   |
| 11                   |                  | 0.0       | wet              | SP-SM   |             |   |                      | fine to medium SAND, some fine to medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno. |
| 12                   |                  |           |                  |         |             |   |                      |   |
| 13                   |                  |           |                  |         |             |   |                      |   |
| 14                   |                  |           |                  |         |             |   |                      |   |
| 15                   | 5                | 94.0      | wet              | SP-SM   |             | fine to medium SAND, some fine to medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno. |                      |   |
| 16                   |                  |           |                  |         |             |   |                      |   |
| 17                   |                  |           |                  |         |             |   |                      |   |
| 18                   |                  |           |                  |         |             |   |                      |   |
| 19                   |                  |           |                  |         |             |   |                      |   |
| 20                   | 1                | 72.3      | wet              | SP-SM   |             | fine to medium SAND, some fine to medium gravel, (5YR 5/4) reddish brown, wet, no odor, no staining. Soils consistent with UNDno. |                      |   |
| 21                   |                  |           |                  |         |             |   |                      |   |

**Notes:**

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611848.04 |
| <b>Date Started Drilling:</b> 4/29/2016 8:20:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683309.12 |
| <b>Date Finished Drilling:</b> 4/29/2016 9:10:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 14.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base  |                       |
| 1                    | 5                |           | dry              | FILL    |             | fine to medium SAND, some medium to coarse gravel, (7.5YR 3/1) very dark gray, dry, no odor, no staining.  | P4-HSN-HH4B-0.7-1.2   |
| 2                    |                  |           |                  |         |             |  |                       |
| 3                    |                  |           | dry              | FILL    |             |  |                       |
| 4                    |                  |           |                  |         |             |  |                       |
| 5                    | 4.5              | 0.0       | dry              | FILL    |             | medium SAND, some medium gravel, little to trace concrete and fill material, (7.5YR 4/2) brown, dense, dry, no odor, no staining.  | P4-HSN-HH4B-9.0-9.5   |
| 6                    |                  |           |                  |         |             |  |                       |
| 7                    |                  |           | slightly moist   | FILL    |             | Silt, some medium gravel, little fine sand, trace fill material, (2.5Y 5/2) grayish brown, low plasticity soft, slightly moist to wet, no odor, no staining, light sheen, water at 8.0 feet bgs. |                       |
| 8                    |                  |           |                  |         |             |  |                       |
| 9                    |                  |           |                  |         |             |  |                       |
| 10                   |                  |           |                  | NR      |             | NO RECOVERY  |                       |
| 11                   | 5                | 0.0       | moist            | FILL    |             | Silt, little medium gravel, trace fill material, (2.5Y 5/2) grayish brown, soft, moist, no odor, no staining.  | P4-HSN-HH4B-11.0-11.5 |
| 12                   |                  |           | dry              | FILL    |             |  |                       |
| 13                   |                  |           | moist            | FILL    |             | Silt, some fine to medium SAND, little fine gravel, trace fill, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.  |                       |
| 14                   |                  |           |                  |         |             |  |                       |
| 15                   |                  |           |                  | SP      |             | fine to medium sand, some gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.   | P4-HSN-HH4B-12.5-13.0 |
| 16                   | 5                | 0.0       | moist            | SP      |             | fine to medium sand, some coarse gravel, little silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.   | P4-HSN-HH4B-13.0-13.5 |
| 17                   |                  |           |                  |         |             |  |                       |
| 18                   |                  |           |                  |         |             |  |                       |
| 19                   |                  |           |                  |         |             |  |                       |
| 20                   |                  |           | wet              | SP      |             | fine to medium sand, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |                       |
| 21                   |                  |           | wet              | SP      |             | fine to medium sand, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611860.72 |
| <b>Date Started Drilling:</b> 4/27/2016 8:50:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683336.03 |
| <b>Date Finished Drilling:</b> 4/27/2016 10:30:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|
| 1                    | 5                | 1.6       |                  | ASPHALT |             | ASPHALT  |                       |
|                      |                  | 0.0       | dry              | FILL    |             | medium GRAVEL, trace fine sand, (7.5YR 5/1) gray, dry no odor no staining  | P4-HSN-HH5B-0.5-1.0   |
|                      |                  | 0.7       | dry              | FILL    |             | fine to medium SAND, trace fine to medium gravel, (7.5YR 3/4) dark brown, dry no odor no staining                                      |                       |
|                      |                  | 0.4       | dry              | FILL    |             | medium SAND, trace silt, (7.5YR 4/2) brown, dry no odor no staining  | P4-HSN-HH5B-2.0-2.5   |
| 2                    |                  |           |                  |         |             |  |                       |
| 3                    |                  |           |                  |         |             |  |                       |
| 4                    |                  | 0.0       | dry              | FILL    |             | fine SAND, trace coarse gravel, (7.5YR 3/2) dark brown, dry no odor no staining  | P4-HSN-HH5B-4.0-4.5   |
| 5                    |                  | 5.6       | dry              | FILL    |             | fine SAND, little SILT, (7.5YR 3/2) dark brown, dry to slightly moist no odor no staining  | P4-HSN-HH5B-6.0-6.5   |
| 6                    |                  |           |                  |         |             |  |                       |
| 7                    |                  |           |                  |         |             |  |                       |
| 8                    |                  | 14.6      | wet              | FILL    |             | fine to medium SAND, (7.5YR 3/2) dark brown, wet slight petroleum odor no staining, sheen water at 7.5 feet bgs                        | P4-HSN-HH5B-8.0-8.5   |
| 9                    |                  |           |                  |         |             |  |                       |
| 10                   |                  | 1140      | wet              | FILL    |             | medium to coarse SAND, some medium gravel, (7.5YR 2.5/3) very dark brown, wet petroleum odor product staining, sheen                   | P4-HSN-HH5B-10.0-10.5 |
| 11                   |                  |           |                  |         |             |  | P4-HSN-HH5B-11.5-12.0 |
| 12                   |                  | 116       | wet              | SM      |             | fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, wet, slight petroleum odor, no staining. Soils consistent with UNDno. | P4-HSN-HH5B-12.0-12.5 |
| 13                   |                  |           |                  |         |             |  |                       |
| 14                   |                  |           |                  |         |             |  |                       |
| 15                   |                  | 5.6       | wet              | SM      |             | medium SAND, (5YR 4/3) reddish brown, wet, slight petroleum odor, no staining. Soils consistent with UNDno.                            |                       |
| 16                   |                  | 4.5       | wet              | SM      |             | fine to medium SAND, trace silt, (5YR 4/3) reddish brown, wet, slight petroleum odor, no staining. Soils consistent with UNDno.        |                       |
| 17                   |                  |           |                  |         |             |  |                       |
| 18                   |                  |           |                  |         |             |  |                       |
| 19                   |                  |           |                  |         |             |  |                       |
| 20                   | 1                | 3.8       | wet              | SM      |             | fine to medium SAND, trace silt, (5YR 4/3) reddish brown, wet, slight petroleum odor, no staining. Soils consistent with UNDno.        |                       |
| 21                   |                  |           |                  |         |             |  |                       |

**Notes:**  
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
MM - meadow mat GGM - green grey mud UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS            |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> 9822            | <b>Coordinates (NJSPNAD83) x:</b> 611898.62 |
| <b>Date Started Drilling:</b> 4/27/2016 8:55:00 AM   | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683386.57 |
| <b>Date Finished Drilling:</b> 4/27/2016 10:00:00 AM | <b>Core Size:</b> 3.5 in                | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |   | <b>Surface Elevation:</b> 13.2 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log  | Surface Cover and Thickness:   | Sample ID   |
|----------------------|------------------|-----------|------------------|--------------|--|--|---|
|                      |                  | 0.0       |                  | ASPHALT      |  | ASPHALT and gravel sub-base.   |   |
| 1                    | 3.7              |           | dry              | FILL         |  | ASH, some cinders, trace asphalt, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining.                 | P4-HSN-HH7B-1.1-1.6   |
| 2                    |                  | moist     | FILL             |              | silty fine SAND, (10YR 5/4) yellowish brown, loose, moist, no odor, no staining. |  |   |
| 3                    |                  |           |                  |              |  |  | P4-HSN-HH7B-3.0-3.5   |
| 4                    |                  |           |                  |              | NR   |  | NO RECOVERY   |
| 5                    | 5                |           | moist            | FILL         |  | silty fine SAND, (10YR 5/4) yellowish brown, loose, moist, no odor, no staining.   | P4-HSN-HH7B-5.0-5.5   |
| 6                    |                  |           |                  |              |  |  |   |
| 7                    |                  |           |                  |              |  |  | P4-HSN-HH7B-7.0-7.5   |
| 8                    |                  |           |                  | moist to wet | SP-SM  |  | fine SAND, trace silt, (5YR 4/3) reddish brown, moist to wet, no odor, no staining, water at 8.0 feet bgs. Soils consistent with UNDno. |
| 9                    |                  |           |                  |              |  |  |   |
| 10                   | 5                |           | moist to wet     | SP-SM        |  | fine to medium SAND, (5YR 4/3) reddish brown, moist to wet, no odor, no staining. Soils consistent with UNDno.             |   |
| 11                   |                  |           |                  |              |  |  |   |
| 12                   |                  |           |                  |              |  |  |   |
| 13                   |                  |           |                  |              |  |  |   |
| 14                   |                  |           |                  |              |  |  |   |
| 15                   | 5                |           | moist to wet     | SP           |  | fine to medium SAND, (5YR 3/2) dark reddish brown, loose, moist to wet, no odor, no staining. Soils consistent with UNDno. |   |
| 16                   |                  |           |                  |              |  |  |   |
| 17                   |                  |           | wet to saturated | SP-SM        |  | fine SAND, (5YR 4/4) reddish brown, medium dense, wet to saturated, no odor, no staining. Soils consistent with UNDno.     |   |
| 18                   |                  |           |                  |              |  |  |   |
| 19                   |                  |           |                  |              |  |  |   |
| 20                   | 1                |           | wet to saturated | SP-SM        |  | fine SAND, (5YR 4/4) reddish brown, medium dense, wet to saturated, no odor, no staining. Soils consistent with UNDno.     |   |
| 21                   |                  |           |                  |              |  |  |   |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|  |  |   |
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| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611868.33 |
| <b>Date Started Drilling:</b> 4/27/2016 10:20:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683300.75 |
| <b>Date Finished Drilling:</b> 4/27/2016 12:00:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 14.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:  | Sample ID             |   |   |                       |
|----------------------|------------------|-----------|------------------|------|-------------|---|-----------------------|---|---|-----------------------|
| 1                    | 5                | 0.0       | dry              | FILL |             | medium SAND, with roots (topsoil), (7.5YR 2.5/3) very dark brown, dry no odor no staining   | P4-HSN-II4B-0.5-1.0   |   |   |                       |
|                      |                  | 0.0       | dry              | FILL |             |   |                       | crushed CONCRETE, dry no odor no staining   |   |                       |
|                      |                  | 0.0       | dry              | FILL |             |   |                       | fine to medium SAND, some fine to medium gravel, (7.5YR 4/2) brown, dry no odor no staining |   |                       |
| 2                    | 5                | 0.0       | dry              | FILL |             | fine SAND, little silt trace gravel and brick, (7.5YR 3/2) dark brown, dry no odor no staining                                      | P4-HSN-II4B-2.0-2.5   |   |   |                       |
|                      |                  |           |                  |      |             |   |                       | 3   |   |                       |
| 4                    |                  |           |                  |      |             |   | P4-HSN-II4B-4.0-4.5   |   |   |                       |
| 5                    |                  | 0.0       | dry              | FILL |             | fine to medium SAND, little silt, (7.5YR 3/3) dark brown, dry no odor no staining   |                       |   |   |                       |
| 6                    | 5                | 3.6       | dry              | FILL |             | SILT, little fine to medium sand and fine gravel, (10YR 5/4) yellowish brown, dry to slightly moist no odor no staining             | P4-HSN-II4B-6.0-6.5   |   |   |                       |
|                      |                  | 7         |                  |      |             |   |                       |   |   |                       |
|                      |                  | 8         | 5.0              | wet  |             |   |                       | FILL  | SILT, trace fine sand, (7.5YR 2.5/3) very dark brown, wet slight petroleum-like odor, no staining, sheen water at 8.0 feet bgs              | P4-HSN-II4B-8.0-8.5   |
| 10                   |                  | 7.0       | wet              | FILL |             | SILT, trace fine sand, (7.5YR 2.5/3) very dark brown, wet slight petroleum-like odor, no staining, sheen                            | P4-HSN-II4B-10.0-10.5 |   |   |                       |
| 11                   | 5                | 2.1       | wet              | FILL |             | fine SAND, some silt and medium to coarse gravel, (5YR 3/4) dark reddish brown, wet, slight petroleum-like odor, no staining, sheen | P4-HSN-II4B-12.0-12.5 |   |   |                       |
|                      |                  | 12        | 1.1              | wet  |             |   |                       | FILL  | fine SAND, trace silt and medium gravel, (5YR 4/3) reddish brown, wet no odor no staining   | P4-HSN-II4B-12.5-13.0 |
|                      |                  | 13        | 0.0              | wet  |             |   |                       | SM  | fine to medium SAND, trace silt and medium to coarse gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno. | P4-HSN-II4B-13.0-13.5 |
| 15                   |                  | 0.0       | wet              | SM   |             | fine to medium SAND, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.                                 |                       |   |   |                       |
| 16                   | 5                | 0.0       | wet              | SM   |             | fine to medium SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.    |                       |   |   |                       |
|                      |                  |           |                  |      |             |   |                       | 17  |   |                       |
| 20                   |                  | 0.0       | wet              | SM   |             | fine to medium SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.    |                       |   |   |                       |
| 21                   | 1                |           |                  |      |             |   |                       |   |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> Geoprobe           | <b>Coordinates (NJSPNAD83) x:</b> 611888.9  |
| <b>Date Started Drilling:</b> 4/27/2016 1:05:00 PM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683322.85 |
| <b>Date Finished Drilling:</b> 4/27/2016 2:20:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> EW                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 14.8 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS     | Graphic Log | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|----------|-------------|---|-----------------------|
| 1                    | 5                | 0.0       |                  | concrete |             | CONCRETE  |                       |
| 2                    |                  | 0.0       | dry              | FILL     |             | medium to coarse SAND, some concrete fragments, (7.5YR 3/1) very dark gray, dry no odor no staining<br>fine to medium SAND, trace silt and medium gravel, (5YR 3/3) dark reddish brown, dry no odor no staining<br>fine SAND, trace coal and fine gravel, (10YR 5/4) yellowish brown, dry no odor no staining | P4-HSN-II5B-1.5-2.0   |
| 3                    |                  | 0.0       | dry              | FILL     |             |   | P4-HSN-II5B-2.0-2.5   |
| 4                    |                  | 0.0       | dry              | FILL     |             |   | P4-HSN-II5B-4.0-4.5   |
| 5                    | 5                | 0.0       | dry              | FILL     |             | fine SAND, trace fine gravel, (10YR 5/4) yellowish brown, dry no odor no staining   | P4-HSN-II5B-6.0-6.5   |
| 7                    |                  | 0.0       | moist to wet     | FILL     |             | fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, no odor no staining water at 9.0 feet bgs  | P4-HSN-II5B-8.0-8.5   |
| 10                   |                  | 0.0       | wet              | FILL     |             | fine to medium SAND, trace medium gravel, (5YR 4/3) reddish brown, wet no odor no staining  | P4-HSN-II5B-10.0-10.5 |
| 12                   | 5                | 0.0       | wet              | FILL     |             | medium SAND, (7.5YR 3/1) very dark gray, wet no odor no staining  | P4-HSN-II5B-11.5-12.0 |
| 13                   |                  | 5.6       | wet              | SM       |             | medium SAND, trace medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.  | P4-HSN-II5B-12.0-12.5 |
| 15                   | 5                | 0.0       | wet              | SM       |             | medium SAND, trace silt, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.   |                       |
| 18                   |                  | 0.0       | wet              | SM       |             | medium SAND, trace silt and medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.   |                       |
| 20                   |                  | 0.0       | wet              | SM       |             | medium SAND, trace silt and medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.   |                       |
| 21                   | 1                | 0.0       | wet              | SM       |             | medium SAND, trace silt and medium gravel, (5YR 4/3) reddish brown, wet no odor no staining. Soils consistent with UNDno.   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-09 RA PPG LOGS - A.GDT. - 10/04/16 09:26



|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS            |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> 9822            | <b>Coordinates (NJSPNAD83) x:</b> 611903.05 |
| <b>Date Started Drilling:</b> 4/27/2016 1:10:00 PM  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 683349.53 |
| <b>Date Finished Drilling:</b> 4/27/2016 2:30:00 PM | <b>Core Size:</b> 3.5 in                | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |   | <b>Surface Elevation:</b> 13.6 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID             |                     |
|----------------------|------------------|-----------|------------------|---------|-------------|--|-----------------------|---------------------|
| 1                    | 3.5              | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.   |                       |                     |
| 2                    |                  |           | moist            | FILL    |             | fine to medium SAND, some ash, little cinders, trace brick fragments and silt, (5YR 3/4) dark reddish brown, moist, no odor, no staining.    | P4-HSN-II6B-1.0-1.5   |                     |
| 3                    |                  |           |                  |         |             |  |                       | P4-HSN-II6B-3.0-3.5 |
| 4                    |                  |           |                  | NR      |             | NO RECOVERY  |                       |                     |
| 5                    | 5                | 0.0       | moist            | FILL    |             | fine to medium SAND, little cinders, ash and fill material, (5YR 3/4) dark reddish brown, medium dense, moist, no odor, no staining.         | P4-HSN-II6B-5.0-5.5   |                     |
| 6                    |                  |           |                  |         |             |  |                       | P4-HSN-II6B-7.0-7.5 |
| 7                    |                  |           | moist            | FILL    |             | fine SAND, trace cinders and coarse gravel, (5YR 3/2) dark reddish brown, medium dense, moist, no odor, no staining.                         | P4-HSN-II6B-9.0-9.5   |                     |
| 8                    |                  |           |                  |         |             |  |                       |                     |
| 9                    |                  |           |                  |         |             |  |                       |                     |
| 10                   | 4                | 0.0       | moist to wet     | FILL    |             | fine SAND, trace cinders and coarse gravel, (5YR 3/2) dark reddish brown, medium dense, moist, no odor, no staining, water at 10.5 feet bgs. | P4-HSN-II6B-10.5-11.0 |                     |
| 11                   |                  |           | saturated        | SP-SM   |             | fine SAND, (5YR 4/3) reddish brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.                                     | P4-HSN-II6B-11.0-11.5 |                     |
| 12                   |                  |           |                  |         |             |  |                       |                     |
| 13                   |                  |           |                  |         |             |  |                       |                     |
| 14                   |                  |           |                  | NR      |             | NO RECOVERY  |                       |                     |
| 15                   | 0                | 0.0       |                  | NR      |             | NO RECOVERY  |                       |                     |
| 16                   |                  |           |                  |         |             |  |                       |                     |
| 17                   |                  |           |                  |         |             |  |                       |                     |
| 18                   |                  |           |                  |         |             |  |                       |                     |
| 19                   |                  |           |                  |         |             |  |                       |                     |
| 20                   |                  |           |                  |         |             |  |                       |                     |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:26

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> 9822               | <b>Coordinates (NJSPNAD83) x:</b> 611916.76 |
| <b>Date Started Drilling:</b> 4/26/2016 11:20:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683374.96 |
| <b>Date Finished Drilling:</b> 4/26/2016            | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> ES                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 13.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log | Surface Cover and Thickness:   | Sample ID  |                       |
|----------------------|------------------|-----------|------------------|--------------|-------------|--|--|-----------------------|
| 1                    | 5                | 0.0       |                  | ASPHALT      |             | ASPHALT and gravel sub-base, (5YR 2.5/1) black.  |  |                       |
| 2                    |                  |           |                  | FILL         |             | fine to medium SAND, little medium to coarse gravel, trace shell fragments, (7.5YR 4/3) brown, loose, no odor, iron oxide staining.          |  |                       |
| 3                    | 4                | 0.0       |                  | FILL         |             | SILT, little fine to medium sand, trace fine to medium gravel, (10YR 5/8) yellowish brown, moist to wet, no odor, no staining, wet 6.0' bgs. |  |                       |
| 4                    |                  |           |                  |              |             |  |  |                       |
| 5                    |                  |           |                  | moist to wet | FILL        |  | SILT, little fine to medium sand, trace fine to medium gravel, (10YR 5/8) yellowish brown, moist to wet, no odor, no staining, wet 6.0' bgs.         | P4-HSN-II7B-8.0-8.5   |
| 6                    | 5                | 0.0       |                  | NR           |             | NO RECOVERY  |  |                       |
| 7                    |                  |           |                  | moist        | FILL        |  | SILT, little fine to medium sand, (10YR 5/8) yellowish brown, loose, moist to wet, no odor, no staining, slight mottling.                            | P4-HSN-II7B-10.0-10.5 |
| 8                    |                  |           |                  | moist        | FILL        |  | fine to medium SAND, some cinders, little gravel, trace ash, (5YR 3/4) dark reddish brown, loose, moist to wet, slight petroleum odor, oil staining. | P4-HSN-II7B-12.0-12.5 |
| 9                    | 4                | 0.0       |                  | SP           |             | fine SAND, (5YR 5/3) reddish brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.                                     | P4-HSN-II7B-12.5-13.0  |                       |
| 10                   |                  |           |                  | saturated    | SP          |  | fine SAND, dense, saturated, no odor, no staining. Soils consistent with UNDno.  |                       |
| 11                   | 1                | 0.0       |                  | NR           |             | NO RECOVERY  |  |                       |
| 12                   |                  |           |                  | saturated    | SP          |  | fine SAND, dense, saturated, no odor, no staining. Soils consistent with UNDno.  |                       |
| 13                   |                  |           |                  |              |             |  |  |                       |
| 14                   |                  |           |                  |              |             |  |  |                       |
| 15                   |                  |           |                  |              |             |  |  |                       |
| 16                   |                  |           |                  |              |             |  |  |                       |
| 17                   |                  |           |                  |              |             |  |  |                       |
| 18                   |                  |           |                  |              |             |  |  |                       |
| 19                   |                  |           |                  |              |             |  |  |                       |
| 20                   |                  |           |                  |              |             |  |  |                       |
| 21                   |                  |           |                  |              |             |  |  |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-08 RA PPG LOGS - A.GDT. - 10/4/16 09:26

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave                | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR        | <b>Drilling Method:</b> 9822               | <b>Coordinates (NJSPNAD83) x:</b> 611944.34 |
| <b>Date Started Drilling:</b> 4/26/2016 9:50:00 AM   | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 683360.48 |
| <b>Date Finished Drilling:</b> 4/26/2016 11:05:00 AM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 21 ft            |
| <b>Logged By:</b> ES                                 | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI           |  | <b>Surface Elevation:</b> 13.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content   | USCS    | Graphic Log | Surface Cover and Thickness:   | Sample ID           |  |
|----------------------|------------------|-----------|--------------------|---------|-------------|--|---------------------|--|
| 0                    | 5                | 0.0       | dry                | ASPHALT |             | ASPHALT and gravel sub-base, (5YR 2.5/1) black   |                     |  |
| 1                    |                  |           | moist              | FILL    |             | fine to medium SAND, little fine gravel, trace cinders, (7.5YR 3/2) dark brown, loose, slightly moist, no odor, some black staining.                         | P4-HSN-JJ7B-0.8-1.3 |  |
| 2                    |                  |           | slightly moist     | FILL    |             | fine to medium SAND, (10YR 3/6) dark yellowish brown, loose, slightly moist, no odor, slight black staining.   | P4-HSN-JJ7B-2.0-2.5 |  |
| 3                    |                  |           |                    |         |             |  |                     |  |
| 4                    |                  |           |                    |         |             |  |                     | P4-HSN-JJ7B-4.0-4.5<br>P4-HSN-JJ7B-4.5-5.0 |
| 5                    | 5                | 0.0       | moist to saturated | SP-SM   |             | silty fine to medium SAND, little gravel, (5YR 4/3) reddish brown, loose, moist to saturated, no odor, no staining, wet @ 6.5'. Soils consistent with UNDno. | P4-HSN-JJ7B-5.0-5.5 |  |
| 6                    |                  |           |                    |         |             |  |                     |  |
| 7                    |                  |           |                    |         |             |  |                     |  |
| 8                    |                  |           |                    |         |             |  |                     |  |
| 9                    |                  |           |                    |         |             |  |                     |  |
| 10                   | 5                | 0.0       | wet to saturated   | SM      |             | sandy SILT, (5YR 4/3) reddish brown, soft, wet to saturated, no odor, no staining. Soils consistent with UNDno.  |                     |  |
| 11                   |                  |           |                    |         |             |  |                     |  |
| 12                   |                  |           | wet                | SP-SM   |             | fine to coarse SAND, little silt, (5YR 4/2) dark reddish gray, loose, wet, no odor, no staining. Soils consistent with UNDno.                                |                     |  |
| 13                   |                  |           |                    |         |             |  |                     |  |
| 14                   |                  |           |                    |         |             |  |                     |  |
| 15                   | 5                | 0.0       | saturated          | SP-SM   |             | fine to medium SAND, (5YR 3/4) dark reddish brown, dense, saturated, no odor, no staining. Soils consistent with UNDno.                                      |                     |  |
| 16                   |                  |           |                    |         |             |  |                     |  |
| 17                   |                  |           |                    |         |             |  |                     |  |
| 18                   |                  |           |                    |         |             |  |                     |  |
| 19                   |                  |           |                    |         |             |  |                     |  |
| 20                   | 1                | 0.0       | saturated          | SP-SM   |             | fine to medium SAND, (5YR 4/4) reddish brown, dense, saturated, no odor, no staining. Soils consistent with UNDno.   |                     |  |
| 21                   |                  |           |                    |         |             |  |                     |  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

|   |  |   |
|---|--|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60240739                     | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611321.95 |
| <b>Date Started Drilling:</b> 5/5/2016 10:15:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682838.4  |
| <b>Date Finished Drilling:</b> 5/5/2016 11:00:00 AM | <b>Core Size:</b> 3.5 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> MI                                | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |  | <b>Surface Elevation:</b> 11.3 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS         | Graphic Log | Surface Cover and Thickness:   | Sample ID             |
|----------------------|------------------|-----------|------------------|--------------|-------------|--|-----------------------|
| 1-5                  | 5                | 0.0       | moist            | ASPHALT FILL |             | ASPHALT and gravel sub-base. GGM (100%), (10Y 5/2) grayish olive, soft, moist, no odor, green staining.  |                       |
| 5-9                  | 5                | 0.0       | moist            | FILL         |             | GGM, (50%), some cinders, ash, little fine gravel, trace chromium precipitate, (10Y 5/2) grayish olive, soft, moist, slight solvent odor, green staining.              |                       |
| 9-10                 |                  |           | moist            | FILL         |             | CINDERS, some ash, little silt, trace coal, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.   | P4-HSN-Y18A-8.5-9.0   |
| 10-15                | 5                | 0.0       | wet              | FILL         |             | silty fine SAND, trace wood, (5YR 4/4) reddish brown, loose, wet, no odor, no staining, water at 10.0 feet bgs.  | P4-HSN-Y18A-10.0-10.5 |
| 12-13                |                  |           |                  |              |             |  | P4-HSN-Y18A-12.0-12.5 |
| 14-15                |                  |           |                  |              |             |  | P4-HSN-Y18A-14.0-14.5 |
| 15-16                |                  |           | wet              | FILL         |             | silty fine SAND, little fine to medium gravel, (5YR 4/4) reddish brown, loose, wet, no odor, no staining, slight mottling.   | P4-HSN-Y18A-15.0-15.5 |
| 16-17                |                  |           | moist            | PT           |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-Y18A-15.5-16.0 |
| 17-19                | 4                |           | moist            | ML           |             | sandy SILT, (7.5YR 4/1) dark gray, soft, moist, no odor, no staining. Soils consistent with UNDno.   |                       |
| 19-20                |                  |           |                  | NR           |             | NO RECOVERY  |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 7/12/16 15:56

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> Direct Push        | <b>Coordinates (NJSPNAD83) x:</b> 611386.15 |
| <b>Date Started Drilling:</b> 5/9/2016 8:40:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682901.74 |
| <b>Date Finished Drilling:</b> 5/9/2016 9:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> H. Brian Becker                  | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|
| 0 - 1                | 5                | 0.0       |                  | ASPHALT |             | Asphalt and gravel sub-base.  |                       |
| 1 - 2                |                  |           | slightly moist   | FILL    |             | medium to coarse SAND, some medium gravel, trace ash, (2.5YR 4/3) reddish brown, medium dense, slightly moist, no odor, no staining.  |                       |
| 2 - 3                |                  |           | wet              | FILL    |             | GGM (100%), (2.5Y 5/1) gray, very soft, wet, no odor, green staining.   |                       |
| 3 - 4                |                  |           |                  |         |             |   |                       |
| 4 - 5                |                  |           |                  |         |             |   |                       |
| 5 - 6                | 5                | 2.0       | wet              | FILL    |             | GGM (100%), (2.5Y 5/1) gray, very soft, wet, no odor, green staining, water at 7.5 feet bgs.  |                       |
| 6 - 7                |                  |           |                  |         |             |   |                       |
| 7 - 8                |                  |           |                  |         |             |   |                       |
| 8 - 9                |                  |           |                  |         |             |   |                       |
| 9 - 10               |                  |           | wet              | FILL    |             | fine to coarse SAND, little gravel, trace glass, (7.5YR 4/2) brown, medium dense, wet, slight petroleum odor, no staining, light sheen.   |                       |
| 10 - 11              | 5                | 2.0       | wet              | FILL    |             | SILT, trace wood, (5YR 4/1) dark gray, soft, wet, slight petroleum odor, no staining, light sheen.  |                       |
| 11 - 12              |                  |           | saturated to wet | FILL    |             | silty SAND, little to trace ash, (5YR 4/3) reddish brown, medium dense, saturated to wet, no odor, no staining.   |                       |
| 12 - 13              |                  |           |                  |         |             |   |                       |
| 13 - 14              |                  |           |                  |         |             |   |                       |
| 14 - 15              |                  |           |                  |         |             |   |                       |
| 15 - 16              | 5                | 1.0       | wet              | FILL    |             | silty SAND, trace gravel, trace ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.  | P4-HSN-Z15A-15.0-15.5 |
| 16 - 17              |                  |           | slightly moist   | PT      |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, firm, slightly moist, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-Z15A-15.5-16.0 |
| 17 - 18              |                  |           |                  |         |             |   |                       |
| 18 - 19              |                  |           | wet              | OL      |             | Organic SILT, 80% organic silt, 20% organic fibers, (5YR 5/1) gray, soft, wet, no odor, no staining. Soils consistent with UNDorg.  |                       |
| 19 - 20              |                  |           | wet              | SP-SC   |             | fine SAND, (5YR 4/2) dark reddish gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.   |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:26

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611369.28 |
| <b>Date Started Drilling:</b> 5/5/2016 8:35:00 AM  | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682881.06 |
| <b>Date Finished Drilling:</b> 5/5/2016 9:40:00 AM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                       | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|
| 1-2                  | 5                | 0.0       | dry              | ASPHALT |             | Asphalt and gravel sub-base.  |                       |
|                      |                  |           | moist to wet     | FILL    |             | fine to coarse SAND, little fine gravel, little to trace ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. GGM, (5Y 5/1) gray, soft, moist to wet, no odor, green staining, water at 5.0 feet bgs. |                       |
| 5-9                  | 5                | 0.0       | wet              | FILL    |             | GGM, (5Y 5/1) gray, soft, wet, no odor, green staining.   |                       |
|                      |                  |           | wet              | FILL    |             | Cinders, some ash, (5Y 2.5/1) black, loose, wet, no odor, no staining.  |                       |
| 10-11                | 2.5              | 10.0      | wet to moist     | FILL    |             | silty SAND, little wood, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet to moist, slight petroleum odor, no staining, light sheen.   | P4-HSN-Z16A-12.0-12.5 |
|                      |                  | 25.0      |                  |         |             |   |                       |
| 13-14                |                  |           |                  | NR      |             | NO RECOVERY   |                       |
| 15-19                | 5                | 2.0       | wet              | FILL    |             | silty SAND, trace wood, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.   | P4-HSN-Z16A-15.5-16.0 |
|                      |                  |           | dry              | PT      |             | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.                                 | P4-HSN-Z16A-16.0-16.5 |
|                      |                  |           | moist            | OL      |             | Organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.  |                       |
|                      |                  |           | wet              | ML      |             | SILT, (2.5Y 5/1) gray, soft, wet, no odor, no staining. Soils consistent with UNDno.  |                       |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/4/16 09:26

|  |  |   |
|--|--|---|
| <b>Project Name:</b> PPG Garfield Ave              | <b>Drilling Company:</b> SGS North America |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR      | <b>Drilling Method:</b> macrocore          | <b>Coordinates (NJSPNAD83) x:</b> 611350.35 |
| <b>Date Started Drilling:</b> 5/5/2016 11:20:00 AM | <b>Rig Type:</b>                           | <b>Coordinates (NJSPNAD83) y:</b> 682854.81 |
| <b>Date Finished Drilling:</b> 5/5/2016 1:10:00 PM | <b>Core Size:</b> 3.0 in                   | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Eric Stone                       | <b>Project Manager:</b> Scott Mikaelian    | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI         |  | <b>Surface Elevation:</b> 11.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS  | Graphic Log | Surface Cover and Thickness:   | Sample ID             |   |                       |
|----------------------|------------------|-----------|------------------|-------|-------------|--|-----------------------|---|-----------------------|
| 1-5                  | 5                | 0.0       | dry              | FILL  |             | Asphalt and gravel sub-base.   |                       |   |                       |
|                      |                  |           | dry              | FILL  |             | fine to coarse SAND, little gravel and wood, trace brick, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining. |                       |   |                       |
|                      |                  |           | moist            | FILL  |             | GGM (100%), (2.5Y 5/1) gray, soft, moist, no odor, green staining.   |                       |   |                       |
| 6-10                 | 3.5              | 0.0       | moist            | FILL  |             | GGM (100%), (2.5Y 5/1) gray, soft, moist, no odor, green staining.   |                       |   |                       |
|                      |                  |           | dry              | FILL  |             | fine to medium SAND, some coarse gravel, trace ash, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.      |                       |   |                       |
|                      |                  |           | wet              | FILL  |             | Ash, little wood and fill debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, water at 7.2 feet bgs.          |                       |   |                       |
|                      |                  |           |                  | NR    |             | NO RECOVERY  |                       |   |                       |
| 11-15                | 5                | 20.0      | wet              | FILL  |             | Cinders, some silt, (7.5YR 2.5/1) black, loose, wet, slight petroleum odor, no staining, sheen.                            | P4-HSN-Z17A-10.0-10.5 |   |                       |
|                      |                  |           | saturated        | FILL  |             | Silt, little gravel, (7.5YR 4/2) brown, soft, saturated, no odor, no staining, sheen.                                      |                       |   |                       |
|                      |                  |           | wet              | FILL  |             | fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                                     | P4-HSN-Z17A-12.0-12.5 |   |                       |
| 16-20                | 5                | 0.0       | wet              | FILL  |             | fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.                                     | P4-HSN-Z17A-15.0-15.5 |   |                       |
|                      |                  |           | 2.0              | dry   |             | PT   |                       | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | P4-HSN-Z17A-15.5-16.0 |
|                      |                  |           |                  | moist |             | OL   |                       | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.                     |                       |
|                      |                  |           |                  | wet   |             | SP-SM  |                       | fine to medium SAND, little silt, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno.  |                       |
|                      |                  |           |                  |       |             |  |                       |   |                       |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-09 RA PPG\_LOGS\_A.GDT - 10/4/16 09:26

|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave               | <b>Drilling Company:</b> SGS            |   |
| <b>Project Number:</b> 60314351.GA.DE.PDI.FOR       | <b>Drilling Method:</b> macrocore       | <b>Coordinates (NJSPNAD83) x:</b> 611337.76 |
| <b>Date Started Drilling:</b> 5/4/2016 11:25:00 AM  | <b>Rig Type:</b>                        | <b>Coordinates (NJSPNAD83) y:</b> 682828.02 |
| <b>Date Finished Drilling:</b> 5/4/2016 12:15:00 PM | <b>Core Size:</b> 2.5 in                | <b>Boring Total Depth:</b> 20 ft            |
| <b>Logged By:</b> Michael Irving                    | <b>Project Manager:</b> Scott Mikaelian | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> Actual - HSN PDI          |   | <b>Surface Elevation:</b> 10.9 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID             |  |
|----------------------|------------------|-----------|------------------|---------|-------------|---|-----------------------|--|
|                      |                  | 0.0       |                  | ASPHALT |             | ASPHALT and gravel sub-base.  |                       |  |
| 1                    | 5                |           | slightly moist   | FILL    |             | fine to medium SAND, some cinders and coal, trace medium gravel, brick and concrete, (7.5YR 2.5/3) very dark brown, loose, slightly moist, no odor, green staining at 2.0 feet.   |                       |  |
| 2                    |                  |           | slightly moist   | FILL    |             | GGM, (95%) with (5%) COPR, (5GY 5/2) grayish green, slightly moist, no odor, green staining.  |                       |  |
| 3                    |                  |           | slightly moist   | FILL    |             | fine SAND, little medium to coarse gravel, (5YR 4/4) reddish brown, loose, slightly moist, no odor, no staining.  | P4-HSN-Z18A-3.0-3.5   |  |
| 4                    |                  |           |                  |         |             |   |                       | P4-HSN-Z18A-4.0-4.5  |
| 5                    | 4                | 5.3       | moist            | FILL    |             | fine SAND, little silt, trace ash and cinders, (5YR 4/3) reddish brown, loose, moist, slight petroleum odor, no staining, water at 5.8 feet bgs.  | P4-HSN-Z18A-6.0-6.5   |  |
| 6                    |                  |           | moist to wet     | FILL    |             | ASH, some cinders, trace brick and fill debris, (5YR 2.5/1) black, loose, moist to wet, no odor, no staining.   | P4-HSN-Z18A-8.0-8.5   |  |
| 7                    |                  |           |                  |         |             |   |                       |  |
| 8                    |                  |           |                  | NR      |             | NO RECOVERY   |                       |  |
| 9                    | 5                | 0.0       | wet              | FILL    |             | silty fine SAND, little fine to medium gravel, (5YR 4/4) reddish brown, loose, wet, no odor, no staining.   | P4-HSN-Z18A-10.0-10.5 |  |
| 10                   |                  |           |                  |         |             |   |                       | P4-HSN-Z18A-12.0-12.5  |
| 11                   |                  |           |                  |         |             |   |                       |  |
| 12                   |                  |           |                  |         |             |   |                       |  |
| 13                   | 4                | 0.0       | wet              | FILL    |             | silty fine SAND, little fine to medium gravel, (5YR 4/4) reddish brown, loose, wet, no odor, no staining.<br>PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM. | P4-HSN-Z18A-15.2-15.7 |  |
| 14                   |                  |           | moist            | PT      |             |   |                       |  |
| 15                   |                  |           |                  |         |             |   |                       |  |
| 16                   |                  |           |                  |         |             | SP-SM   |                       | fine SAND, trace organic silt, (7.5YR 5/1) gray, dense, no odor, no staining. Soils consistent with UNDno. |
| 17                   |                  |           |                  | NR      |             | NO RECOVERY   |                       |  |
| 18                   |                  |           |                  |         |             |   |                       |  |
| 19                   |                  |           |                  |         |             |   |                       |  |
| 20                   |                  |           |                  |         |             |   |                       |  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNDorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

**Comments:** 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

PPG - 2012-08 RA PPG\_LOGS\_A.GDT - 10/04/16 09:26



**LOG OF SOIL BORING SB-32**  
 AECOM Note: Ground Surface Elevation 14.0 ft NAVD88

|  |  |   |  |                                    |  |
|--|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)                            |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel                               |  | DATE STARTED<br>04/20/05           |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52'                      |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A                      |  | NO. SAMPLES<br>24                  |  |
| CASING N/A   |  | WATER DEPTH<br>FIRST 4.5'                             |  | UNDIST. N/A                        |  |
| CASING HAMMER WEIGHT N/A                                     |  | DROP N/A  |  | CORE N/A                           |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                  |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |                                    |  |
| SAMPLER HAMMER WEIGHT 140 lbs.                               |  | DROP 30"  |  | INSPECTOR Eric Gaulin              |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS   |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|---|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |   |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |
| 0.0-4.0' Cleared via hand dig; soil from 0.0-2.0 was fill consisting of gravel, asphalt, brick pieces; soil from 2.0-4.0' was fill consisting of fine to medium sand | - 0 -                                |             |         |                |                   |      |                       |                |      |               |              | Boring through gravel road shoulder   |
|  | - 1 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 2 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 3 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 4 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 5 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
| 4.0-8.0' FILL: Tight brown silty sand, coal fragments, ash   | - 4 -                                |             | 1       | 1.0            | 2                 | 0918 | 0.0                   | 0.0            | 0918 | N/A           | N/A          |   |
|  | - 5 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 6 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 7 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
| 8.0-9.5' FILL: Greyish green silty sand, coal fragments, ash staining  | - 8 -                                |             | 2       | 2.0            | 5                 | 0919 | 0.0                   | 0.0            | 0919 | N/A           | N/A          | Gasoline like odors noted from 8.25-9.0   |
|  | - 9 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 8 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 9 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 9 -                                |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 10 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  |                                      |             | 3       | 1.5            | 5                 | 0920 | 0.0                   | 0.0            | 0920 | N/A           | N/A          | 0924 Sample SB-32 (8.5-9.0) for TCL VOC, TCL SVOC, TAL Metals, Total and amenable CN<br><br>Staining and naphthalene odors at 9.5 |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |

**LOG OF SOIL BORING SB-32**

|  |  |                                  |  |   |  |
|--|--|----------------------------------|--|---|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)       |  | PROJECT NUMBER<br>020667601                           |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel          |  | DATE STARTED<br>04/20/05                              |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52' |  | ROCK DEPTH (FT)<br>not encountered                    |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL        |  | NO. SAMPLES   |  |
| CASING N/A   |  | N/A                              |  | DIST. 24  |  |
| CASING HAMMER  |  | WEIGHT N/A                       |  | UNDIST. N/A   |  |
| SAMPLER 2" diameter, 2' long split-spoon                     |  | DROP N/A                         |  | CORE N/A  |  |
| SAMPLER HAMMER   |  | WEIGHT 140 lbs.                  |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |
|  |  | DROP 30"                         |  | INSPECTOR Eric Gaulin                                 |  |

| DESCRIPTION  | Sample Interval | Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS  |
|--|-----------------|----------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|--|
|  |                 |                |             | Number  | Recov. (ft) | Penetr. BU/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |  |
|  |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
| 10.0-10.5' Greyish green silty sand, coal fragments, ash, no staining                  |                 | - 10 -         |             | 4       | 1.5         | 3              | 0945 | 1.0                | 0.0         | 0945 | N/A        | N/A       | 10.5-11.0' strong acrid odor, naphthalene like                 |
| 10.5-11.0' Greyish silt, heavy oil material (OM) staining                              |                 | - 11 -         |             |         |             | 4              |      | 29.0               |             |      |            |           | 0942 Sample SB-32 (10.5-11.0) to TCL VOC, TCL SVOC, TAL Metals |
| 11.0-12.25' Reddish brown (2.5YR4/3) fine to medium sand, trace silt, no staining (SW) |                 | - 12 -         |             |         |             | 4              |      | 34.3               |             |      |            |           |  |
|  |                 | - 12 -         |             |         |             | 5              |      | 2.4                |             |      |            |           |  |
| 12.25-17.75' Reddish brown (2.5YR4/6) fine SILTY SAND, no staining or odors (SM)       |                 | - 13 -         |             | 5       | 1.25        | 10             | 0951 | 0.0                | 0.0         | 0951 | N/A        | N/A       |  |
|  |                 | - 14 -         |             |         |             | 11             |      | 0.0                |             |      |            |           |  |
|  |                 | - 15 -         |             |         |             | 10             |      | 0.0                |             |      |            |           |  |
|  |                 | - 16 -         |             |         |             | 12             |      |                    |             |      |            |           |  |
|  |                 | - 17 -         |             | 6       | 1.5         | 2              | 1002 | 0.0                | 0.0         | 1002 | N/A        | N/A       |  |
|  |                 | - 18 -         |             |         |             | 3              |      | 0.0                |             |      |            |           | 1004 Sample SB-32 (16.0-16.5) to TCL VOC, TCL SVOC, TAL Metals |
|  |                 | - 19 -         |             |         |             | 4              |      | 0.0                |             |      |            |           |  |
|  |                 | - 20 -         |             |         |             | 4              |      |                    |             |      |            |           |  |
| 18.0-23.0' Dark gray (10R4/1) fine to coarse sand, trace silt, trace gravel (SW)       |                 | - 18 -         |             | 7       | 2.0         | 4              | 1005 | 0.0                | 0.0         | 1005 | N/A        | N/A       |  |
|  |                 | - 19 -         |             |         |             | 5              |      | 0.0                |             |      |            |           |  |
|  |                 | - 20 -         |             |         |             | 6              |      | 0.0                |             |      |            |           |  |
|  |                 | - 21 -         |             |         |             | 6              |      | 0.0                |             |      |            |           |  |
|  |                 | - 22 -         |             |         |             | 6              |      | 0.0                |             |      |            |           |  |
|  |                 | - 23 -         |             | 8       | 1.0         | 7              | 1005 | 0.0                | 0.0         | 1005 | N/A        | N/A       |  |
|  |                 | - 24 -         |             |         |             | 6              |      | 0.0                |             |      |            |           |  |
|  |                 | - 25 -         |             |         |             | 7              |      |                    |             |      |            |           |  |
|  |                 | - 26 -         |             |         |             | 9              |      |                    |             |      |            |           |  |

**LOG OF SOIL BORING SB-32**

|  |  |   |  |                                    |  |
|--|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)                            |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel                               |  | DATE STARTED<br>04/20/05           |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52'                      |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A                      |  | NO. SAMPLES<br>24                  |  |
| CASING N/A   |  | WATER DEPTH<br>FIRST 4.5'                             |  | UNDIST. N/A                        |  |
| CASING HAMMER  |  | WEIGHT N/A  |  | DROP N/A                           |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                  |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |                                    |  |
| SAMPLER HAMMER   |  | WEIGHT 140 lbs.                                       |  | DROP 30"                           |  |
|  |  | INSPECTOR Eric Gaulin                                 |  |                                    |  |

| DESCRIPTION  | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS   |
|--|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|---|
|  |                                   |             | Number  | Recov. (ft) | Penetr. BU/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |   |
|  |                                   |             |         |             |                |      |                    |             |      |            |           |   |
| 18.0-23.0' Dark gray (10R4/1) fine to coarse sand, trace silt, trace gravel (SW) | - 20 -                            |             | 9       | 2.0         | 5              | 1028 | 0.0                | 0.0         | 1028 | N/A        | N/A       |   |
|  | - 21 -                            |             |         |             | 5              |      | 0.0                |             |      |            |           |   |
|  | - 22 -                            |             |         |             | 5              |      | 0.0                |             |      |            |           |   |
|  | - 23 -                            |             |         |             | 6              |      | 0.0                |             |      |            |           |   |
| 24.0-27.0' Dark reddish brown (2.5YR3/4) fine to coarse sand, trace silt (SW)    | - 22 -                            |             | 10      | 1.0         | 7              | 1029 | 0.0                | 0.0         | 1029 | N/A        | N/A       |   |
|  | - 23 -                            |             |         |             | 8              |      | 0.0                |             |      |            |           |   |
|  | - 24 -                            |             |         |             | 9              |      |                    |             |      |            |           |   |
|  | - 25 -                            |             |         |             | 9              |      |                    |             |      |            |           |   |
| 27.0-27.25' Dark reddish brown (2.5YR3/4) fine to coarse sand (SW)               | - 24 -                            |             | 11      | 1.5         | 5              | 1046 | 0.0                | 0.0         | 1046 | N/A        | N/A       | Slight naphthalene odor in groundwater, no staining, no sheen |
|  | - 25 -                            |             |         |             | 7              |      | 0.0                |             |      |            |           |   |
|  | - 26 -                            |             |         |             | 8              |      | 0.0                |             |      |            |           |   |
|  | - 27 -                            |             |         |             | 6              |      |                    |             |      |            |           |   |
| 27.25-31.5' Dark reddish brown (2.5YR3/4) fine SILTY SAND (SM)                   | - 26 -                            |             | 12      | 2.0         | 4              | 1052 | 0.0                | 0.0         | 1052 | N/A        | N/A       |   |
|  | - 27 -                            |             |         |             | 6              |      | 0.0                |             |      |            |           |   |
|  | - 28 -                            |             |         |             | 5              |      | 0.0                |             |      |            |           |   |
|  | - 29 -                            |             |         |             | 7              |      | 0.0                |             |      |            |           |   |
|  | - 28 -                            |             | 13      | 1.5         | 7              | 1056 | 0.0                | 0.0         | 1056 | N/A        | N/A       |   |
|  | - 29 -                            |             |         |             | 8              |      | 0.0                |             |      |            |           |   |
|  | - 30 -                            |             |         |             | 9              |      | 0.0                |             |      |            |           |   |
|  | - 31 -                            |             |         |             | 10             |      |                    |             |      |            |           |   |

LOG OF SOIL BORING SB-32

|  |  |                                  |  |   |  |
|--|--|----------------------------------|--|---|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)       |  | PROJECT NUMBER<br>020667601                           |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel          |  | DATE STARTED<br>04/20/05                              |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52' |  | ROCK DEPTH (FT)<br>not encountered                    |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL        |  | NO. SAMPLES<br>DIST. 24                               |  |
| CASING N/A   |  | N/A                              |  | UNDIST. N/A   |  |
| CASING HAMMER  |  | WEIGHT N/A                       |  | CORE N/A  |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                  |  | DROP N/A                         |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |
| SAMPLER HAMMER   |  | WEIGHT 140 lbs.                  |  | INSPECTOR Eric Gaulin                                 |  |
|  |  | DROP 30"                         |  |   |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs)                  | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS   |
|--|---|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|---|
|  |   |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |   |
|  |   |             |         |                |                   |      |                       |                |      |               |              |   |
| 27.25-31.5' Dark reddish brown (2.5YR3/4) fine SILTY SAND (SM)               | - 30 -  |             | 14      | 2.0            | 8                 | 1109 | 0.0                   | 0.0            | 1109 | N/A           | N/A          | 1117 Sample SB-32 (30.5-31.0) and SB-32 (30.5-31.0)D for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN |
|  | - 31 -  |             |         |                | 7                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 6                 |      | 0.0                   |                |      |               |              |   |
| 31.5-32.25' Reddish brown (2.5YR4/4) fine SANDY SILT (SM)                    | - 32 -  |             |         |                | 7                 |      | 0.0                   |                |      |               |              |   |
|  | - 32.25-32.5' Reddish brown (2.5YR4/4) fine SAND (SP) |             | 15      | 1.0            | 6                 | 1115 | 0.0                   | 0.0            | 1115 | N/A           | N/A          |   |
| 32.5-32.75' Reddish brown (2.5YR4/4) interlaminated SILTY CLAY, SILT (CL)    | - 33 -  |             |         |                | 8                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 7                 |      |                       |                |      |               |              |   |
|  |   |             |         |                | 7                 |      |                       |                |      |               |              |   |
| 32.75-41.8' Reddish brown (2.5YR4/4) fine SANDY SILT, little silty clay (SM) | - 34 -  |             | 16      | 2.0            | 8                 | 1134 | 0.0                   | 0.0            | 1134 | N/A           | N/A          |   |
|  | - 35 -  |             |         |                | 8                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 7                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 9                 |      | 0.0                   |                |      |               |              |   |
|  | - 36 -  |             | 17      | 2.0            | 5                 | 1140 | 0.0                   | 0.0            | 1140 | N/A           | N/A          |   |
| - 37 -   |   |             |         |                | 6                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 8                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 7                 |      | 0.0                   |                |      |               |              |   |
| - 38 -   |   |             | 18      | 2.0            | 7                 | 1142 | 0.0                   | 0.0            | 1142 | N/A           | N/A          |   |
|  |   |             |         |                | 7                 |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                | 9                 |      | 0.0                   |                |      |               |              |   |
| - 39 -   |   |             |         |                | 10                |      | 0.0                   |                |      |               |              |   |
|  |   |             |         |                |                   |      |                       |                |      |               |              |   |
| - 40 -   |   |             |         |                |                   |      |                       |                |      |               |              |   |

**LOG OF SOIL BORING SB-32**

|  |  |   |  |                                    |  |
|--|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)                            |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel                               |  | DATE STARTED<br>04/20/05           |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52'                      |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A                      |  | NO. SAMPLES<br>24                  |  |
| CASING N/A   |  | WATER DEPTH<br>FIRST 4.5'                             |  | UNDIST. N/A                        |  |
| CASING HAMMER  |  | WEIGHT N/A  |  | DROP N/A                           |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                  |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |                                    |  |
| SAMPLER HAMMER   |  | WEIGHT 140 lbs.                                       |  | DROP 30"                           |  |
|  |  | INSPECTOR Eric Gaulin                                 |  |                                    |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                              |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS |
|---|--------------------------------------|-------------|---------|----------------|------------------------------|------|-----------------------|----------------|------|---------------|--------------|---------|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>Resist.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |         |
|   |                                      |             |         |                |                              |      |                       |                |      |               |              |         |
| 32.75-41.8' Reddish brown (2.5YR4/4) fine SANDY SILT, little silty clay (SM)  | - 40 -                               |             | 19      | 2.0            | 12                           | 1256 | 0.0                   | 0.0            | 1256 | N/A           | N/A          |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 41 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
| 41.8-42.1' Reddish brown (2.5YR4/4) interlaminated SILTY CLAY, SILT (CL)  | - 42 -                               |             |         |                |                              |      |                       |                |      |               |              |         |
|   | - 42 -                               |             | 20      | 2.0            | 16                           | 1301 | 0.0                   | 0.0            | 1301 | N/A           | N/A          |         |
| 42.1-43.1' Reddish brown (2.5YR4/4) loose fine SILTY SAND mud   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 43 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
| 43.1-44.0' Reddish brown (2.5YR4/4) fine SILTY SAND, tight (SM)   | - 44 -                               |             | 21      | 1.8            | 19                           | 1301 | 0.0                   | 0.0            | 1301 | N/A           | N/A          |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
| 44.0-45.25' Reddish brown (2.5YR4/4) fine SANDY SILT, little silty clay (SM)  | - 45 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 45 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
| 45.25-45.45' Reddish brown (2.5YR4/4) laminated SILTY CLAY (CL)   | - 46 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 46 -                               |             | 22      | 2.0            | 23                           | 1306 | 0.0                   | 0.0            | 1306 | N/A           | N/A          |         |
| 45.45-49.0' Reddish brown (2.5YR4/4) fine SANDY SILT (SM), occasional thin silty clay                                     | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 47 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 48 -                               |             | 23      | 2.0            | 19                           | 1343 | 0.0                   | 0.0            | 1343 | N/A           | N/A          |         |
| 49.0-49.5' Reddish brown (2.5YR4/4) interlaminated fine SANDY SILT (SM) and silty clay                                    | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 49 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
| 49.5-51.25' TILL: Dark gray (GLE Y1 4/N) fine to medium SAND, little gravel, little clay, 10% gravel (diabase, argillite) | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - -                                  |             |         |                |                              |      | 0.0                   |                |      |               |              |         |
|   | - 50 -                               |             |         |                |                              |      | 0.0                   |                |      |               |              |         |

LOG OF SOIL BORING SB-32

|  |  |   |  |                                    |  |
|--|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)                            |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>Jeremy Logel                               |  | DATE STARTED<br>04/20/05           |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger Rig, 4.25" Augers    |  | COMPLETION DEPTH (FT BGS)<br>52'                      |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A                      |  | NO. SAMPLES<br>24                  |  |
| CASING N/A   |  | WATER DEPTH<br>4.5'                                   |  | UNDIST. N/A                        |  |
| CASING HAMMER WEIGHT N/A                                     |  | DROP N/A  |  | CORE N/A                           |  |
| SAMPLER 2" diameter, 2' long split-spoon                     |  | BORING LOCATION<br>Halladay Street, Front of Junkyard |  |                                    |  |
| SAMPLER HAMMER WEIGHT 140 lbs.                               |  | DROP 30"  |  | INSPECTOR Eric Gaulin              |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS       |
|---|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|---------------|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BU/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |               |
|   |                                   |             |         |             |                |      |                    |             |      |            |           |               |
| 49.5-51.25' TILL: Dark gray (GLE Y1 4/N) fine to medium SAND, little gravel, little clay, 10% gravel (diabase, argillite) | - 50 -                            |             | 24      | 1.25        | 57             | 1400 | 0.0                | 0.0         | 1400 | N/A        | N/A       | Spoon Refusal |
|   | - 51 -                            |             |         |             | 61             |      | 0.0                |             |      |            |           |               |
| End of boring at 52'  | - 51 -                            |             |         |             | 100/5"         |      | 0.0                |             |      |            |           |               |
|   | - 52 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 53 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 54 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 55 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 56 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 57 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 58 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 59 -                            |             |         |             |                |      |                    |             |      |            |           |               |
|   | - 60 -                            |             |         |             |                |      |                    |             |      |            |           |               |

**LOG OF SOIL BORING SB-49**  
AECOM Note: Ground Surface Elevation = 14.0 ft NAVD88

|   |                                      |  |                                    |
|---|--------------------------------------|--|------------------------------------|
| PROJECT LOCATION<br>Halladay Street, Jersey City, NJ                            |                                      | GROUND ELEVATION (FT. MSL)<br>15.27  | PROJECT NUMBER<br>020667601        |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  | FOREMAN<br>Roger Logel               | DATE STARTED<br>11/15/06   | DATE COMPLETED<br>11/15/06         |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |                                      | COMPLETION DEPTH (FT BGS)<br>48.5'   | ROCK DEPTH (FT)<br>not encountered |
| TYPE BIT<br>Hollow-stem auger   | SIZE AND TYPE CORE BARREL<br>N/A     | NO. SAMPLES<br>23  | DIST.<br>N/A                       |
| CASING<br>N/A   | WATER DEPTH<br>N/A                   | FIRST<br>4   | COMPL.<br>N/A                      |
| CASING HAMMER<br>WEIGHT<br>N/A  | DROP<br>N/A                          | BORING LOCATION: Eastern shoulder of Halladay Street, 130 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |                                    |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     | SAMPLER HAMMER<br>WEIGHT<br>140 lbs. | DROP<br>30"  | INSPECTOR<br>Eric Gaulin           |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS  |  |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|--|--|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |  |  |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |  |  |
| Cleared via hand digging to 4'; boring through asphalt; the fill appeared to be silty sand, gravel | - 0 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
|  | - 1 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
|  | - 2 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
|  | - 3 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
| 4.0-7.3 FILL: consisting of tight reddish brown silty sand, asphalt fragments                      | - 4 -                                | 11'         | 1       | 1.0            | 4                 | 0918 | 5.9                   | 2.0            | 0918 | N/A           | N/A          |  |  |
|  | - 5 -                                |             |         |                |                   |      | 6.7                   | 2.2            |      |               |              |  |  |
|  | - 6 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
|  | - 7 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
|  | - 8 -                                |             |         |                |                   |      |                       |                |      |               |              |  |  |
| 7.3-8.3 Weak red (2.5YR4/2) SILTY CLAY (CL)  | - 9 -                                |             | 2       | 2.0            | 3                 | 0921 | 26.7                  | 0.0            | 0921 | N/A           | N/A          | Oil material (OM) Sheen, naphthalene-like odors from 7.8-17.1 feet bgs |  |
|  | - 10 -                               |             |         |                |                   |      | 38.4                  | 0.0            |      |               |              |  |  |
|  | - 11 -                               |             |         |                |                   |      | 58.0                  | 0.0            |      |               |              |  |  |
| 8.3-10.0 Red (2.5YR4/6) fine to medium SILTY SAND (SM); OM   | - 12 -                               |             |         |                |                   |      | 105.0                 | 0.0            |      |               |              |  |  |
|  | - 13 -                               |             | 3       | 1.8            | 4                 | 0930 | 10.2                  | 0.0            | 0930 | N/A           | N/A          | Positive dye test from 8.5-9.0 confirming presence of OM               |  |
|  | - 14 -                               |             |         |                |                   |      | 401                   | 0.0            |      |               |              |  |  |
|  | - 15 -                               |             |         |                |                   |      | 522                   | 0.0            |      |               |              |  |  |
| - 16 -   |                                      |             |         |                |                   | 550  | 0.0                   |                |      |               |              |  |  |

LOG OF SOIL BORING SB-49

|   |  |  |  |                                    |  |
|---|--|--|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>15.27  |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel   |  | DATE COMPLETED<br>11/15/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/15/06   |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>48.5'   |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>23  |  | UNDIST.<br>N/A                     |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DIST.<br>23  |  | CORE<br>N/A                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | WATER DEPTH<br>FIRST 4   |  | COMPL.<br>N/A                      |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>N/A  |  | 24HR<br>N/A                        |  |
| DROP<br>30"   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 130 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |                                    |  |
| INSPECTOR<br>Eric Gaulin  |  |  |  |                                    |  |

| DESCRIPTION  | Sample Interval | Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS  |
|--|-----------------|----------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|--|
|  |                 |                |             | Number  | Recov. (ft) | Penetr. BU/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |  |
|  |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
| 10.0-12.0 Red (2.5YR4/6) fine to medium SILTY SAND (SM) with a trace of clay, 10% fine gravel, subrounded up to 1/8" diameter            |                 | - 10 -         |             | 4       | 1.5         | 3              | 0935 | 100.0              | 0.0         | 0935 | N/A        | N/A       | Odors this spoon   |
|  |                 |                |             |         |             | 3              |      | 68                 | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 4              |      | 59                 | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 4              |      |                    |             |      |            |           |  |
| 12.0-14.0 Red (2.5YR4/6) fine to medium SILTY SAND (SM) becoming mostly fine SILTY SAND with trace silty clay (CL); soft                 |                 | - 12 -         |             | 5       | 2.0         | 3              | 0940 | 200                | 0.0         | 0940 | N/A        | N/A       | Sample SB-49 (12.5-13.0) collected at 0944 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN<br><br>Dye test 12.0-12.5 positive |
|  |                 |                |             |         |             | 4              |      | 590                | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 5              |      | 220                | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 5              |      | 100                | 0.0         |      |            |           |  |
| 14.0-15.5 Red (2.5YR4/6) mostly fine SILTY SAND (SM) with trace silty clay (CL), very compact and firm                                   |                 | - 14 -         |             | 6       | 1.8         | 3              | 0955 | 220                | 0.0         | 0955 | N/A        | N/A       | Odors this spoon   |
|  |                 |                |             |         |             | 5              |      | 59                 | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 7              |      | 1200               | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 8              |      |                    |             |      |            |           |  |
| 15.5-17.1 Red (2.5YR4/6) fine to medium SAND (SW)  |                 | - 16 -         |             | 7       | 2.0         | 8              | 0957 | 989                | 0.0         | 0957 | N/A        | N/A       | Sample SB-49 (16.0-16.5) collected at 1002 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN                                    |
|  |                 |                |             |         |             | 8              |      | 1510               | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 9              |      | 140                | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 11             |      | 200                | 0.0         |      |            |           |  |
| 17.1-18.8 Red (2.5YR4/6) fine SILTY SAND (SM), tight   |                 | - 17 -         |             | 8       | 2.0         | 3              | 1010 | 6.5                | 0.0         | 1010 | N/A        | N/A       | No naphthalene-like odors this spoon, no staining or evidence of free product  |
|  |                 |                |             |         |             | 4              |      | 6.0                | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 7              |      | 0.0                | 0.0         |      |            |           |  |
|  |                 |                |             |         |             | 4              |      | 1.3                | 0.0         |      |            |           |  |
| 18.8-20.0 Reddish brown (2.5YR5/4) fine to medium SAND (SW) , trace silt, wet, loose, some 2" gray bands of sand exhibiting a burnt odor |                 | - 18 -         |             |         |             |                |      |                    |             |      |            |           |  |
|  |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
|  |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
|  |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
|  |                 | - 19 -         |             |         |             |                |      |                    |             |      |            |           |  |
|  |                 | - 20 -         |             |         |             |                |      |                    |             |      |            |           |  |



LOG OF SOIL BORING SB-49

|   |  |  |  |                                    |  |
|---|--|--|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>15.27  |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel   |  | DATE COMPLETED<br>11/15/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/15/06   |  | COMPLETION DEPTH (FT BGS)<br>48.5' |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A   |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>23  |  | DIST.<br>23                        |  |
| CASING HAMMER<br>WEIGHT N/A   |  | WATER DEPTH<br>FIRST 4   |  | UNDIST.<br>N/A                     |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | DROP<br>N/A  |  | CORE<br>N/A                        |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 130 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  | COMPL.<br>N/A                      |  |
| DROP<br>30"   |  | INSPECTOR<br>Eric Gaulin   |  | 24HR<br>N/A                        |  |

| DESCRIPTION  | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |         |      |      |            | REMARKS   |           |
|--|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|---------|------|------|------------|---|-----------|
|  |                                   |             | Number  | Recov. (ft) | Penetr. BL/6in | Time | Sample             | Ambient |      | Time | Head Space |   | Time Date |
|  |                                   |             |         |             |                |      |                    | Air     |      |      |            |   |           |
| 20.0-21.0 Reddish brown (2.5YR5/4) fine to coarse SAND (SW) , 5% gravel, subrounded to subangular, 1/8 to 1/4" in diameter   | - 20 -                            |             | 9       | 1.2         | 5              | 1015 | 30                 | 0.0     | 1015 | N/A  | N/A        | No naphthalene-like odors this spoon, no staining or evidence of free product |           |
|  | - 21 -                            |             |         |             | 6              |      | 1.2                | 0.0     |      |      |            |   |           |
| 21.0-28.0 Dark reddish brown (2.5YR3/4) fine SILTY SAND (SM), with occassional bands of fine to medium sand, trace coarse sand, occassional bands of fine sandy silt | - 21 -                            |             |         |             | 6              |      | 12                 | 0.0     |      |      |            | No naphthalene-like odors this spoon, no staining or evidence of free product |           |
|  | - 22 -                            |             |         |             | 7              |      |                    |         |      |      |            |   |           |
|  | - 23 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
| 28.0-35.2 Reddish brown (2.5YR5/4) fine SANDY SILT (ML), with occassional thin lenses (1/8 to 1/4 inch thick, reddish gray silty clay)                               | - 23 -                            |             |         |             |                |      |                    |         |      |      |            | No naphthalene-like odors this spoon, no staining or evidence of free product |           |
|  | - 24 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 25 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 26 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
| 28.0-35.2 Reddish brown (2.5YR5/4) fine SANDY SILT (ML), with occassional thin lenses (1/8 to 1/4 inch thick, reddish gray silty clay)                               | - 26 -                            |             |         |             |                |      |                    |         |      |      |            | No naphthalene-like odors this spoon, no staining or evidence of free product |           |
|  | - 27 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 28 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 29 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 30 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |
|  | - 31 -                            |             |         |             |                |      |                    |         |      |      |            |   |           |

LOG OF SOIL BORING SB-49

|   |  |  |  |                                    |  |
|---|--|--|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>15.27  |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel   |  | DATE COMPLETED<br>11/15/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/15/06   |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>48.5'   |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>23  |  | UNDIST.<br>N/A                     |  |
| CASING HAMMER<br>WEIGHT<br>N/A  |  | DIST.<br>23  |  | CORE<br>N/A                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | WATER DEPTH<br>FIRST<br>4  |  | COMPL.<br>N/A                      |  |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.  |  | DROP<br>N/A  |  | 24HR<br>N/A                        |  |
| DROP<br>30"   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 130 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |                                    |  |
| INSPECTOR<br>Eric Gaulin  |  |  |  |                                    |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS                          |
|---|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|----------------------------------|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |                                  |
|   |                                      |             |         |                |                   |      |                       |                |      |               |              |                                  |
| 28.0-35.2 Reddish brown (2.5YR5/4) fine SANDY SILT (ML), with occasional thin lenses (1/8 to 1/4 inch thick, reddish gray silty clay) | - 30 -                               |             | 14      | 2.0            | 10                | 1107 | 0.0                   | 0.0            | 1107 | N/A           | N/A          | Faint unidentifiable odors noted |
|   | - -                                  |             |         |                | 10                | 3.4  | 0.0                   |                |      |               |              |                                  |
|   | - 31 -                               |             |         |                | 11                | 5.5  | 0.0                   |                |      |               |              |                                  |
|   | - -                                  |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
| 35.2-38.8 Reddish brown (2.5YR5/4) laminated SILT (ML) and SILTY CLAY (CL)  | - 32 -                               |             | 15      | 2.0            | 10                | 1109 | 0.0                   | 0.0            | 1109 | N/A           | N/A          |                                  |
|   | - -                                  |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 33 -                               |             |         |                | 14                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - -                                  |             |         |                | 15                | 0.0  | 0.0                   |                |      |               |              |                                  |
| 38.8-46.5 Reddish brown (5YR5/3) fine SANDY SILT (ML), with little fine silty sand  | - 34 -                               |             | 16      | 1.5            | 12                | 1115 | 0.0                   | 0.0            | 1115 | N/A           | N/A          | Faint odors noted on groundwater |
|   | - -                                  |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 35 -                               |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - -                                  |             |         |                | 15                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 36 -                               |             | 17      | 1.8            | 11                | 1129 | 0.0                   | 0.0            | 1129 | N/A           | N/A          | Faint odors noted on groundwater |
|   | - -                                  |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 37 -                               |             |         |                | 15                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - -                                  |             |         |                | 18                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 38 -                               |             | 18      | 2.0            | 11                | 1140 | 0.0                   | 0.0            | 1140 | N/A           | N/A          | Faint odors noted on groundwater |
|   | - -                                  |             |         |                | 12                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 39 -                               |             |         |                | 12                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - -                                  |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |                                  |
|   | - 40 -                               |             |         |                |                   |      |                       |                |      |               |              |                                  |

LOG OF SOIL BORING SB-49

|   |  |                                     |  |  |  |
|---|--|-------------------------------------|--|--|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>15.27 |  | PROJECT NUMBER<br>020667601  |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel              |  | DATE COMPLETED<br>11/15/06   |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/15/06            |  | ROCK DEPTH (FT)<br>not encountered   |  |
| COMPLETION DEPTH (FT BGS)<br>48.5'  |  | NO. SAMPLES<br>23                   |  | UNDIST. N/A  |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A    |  | CORE N/A   |  |
| CASING<br>N/A   |  | WATER DEPTH<br>4                    |  | COMPL. N/A   |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DROP<br>N/A                         |  | BORING LOCATION: Eastern shoulder of Halladay Street, 130 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | INSPECTOR<br>Eric Gaulin            |  |  |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>30"                         |  |  |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS                          |
|---|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|----------------------------------|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BL/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |                                  |
|   |                                   |             |         |             |                |      |                    |             |      |            |           |                                  |
| 38.8-46.5 Reddish brown (5YR5/3) fine SANDY SILT (ML), with little fine silty SAND  | - 40 -                            |             | 19      | 2.0         | 12             | 1155 | 0.0                | 0.0         | 1155 | N/A        | N/A       | Faint odors noted on groundwater |
|   | - 41 -                            |             |         |             | 12             |      | 0.0                | 0.0         |      |            |           |                                  |
|   | - 42 -                            |             |         |             | 14             |      | 0.0                | 0.0         |      |            |           |                                  |
|   | - 43 -                            |             |         |             | 15             |      | 0.0                | 0.0         |      |            |           |                                  |
| 46.5-48.3 Reddish gray (5YR5/2) weakly laminated (up to 1.5" thick) SILT (ML) and SILTY CLAY (CL), with 25% angular fragments of white sandstone and black argillite at 48.0 feet | - 42 -                            |             | 20      | 1.0         | 13             | 1205 | 0.0                | 0.0         | 1205 | N/A        | N/A       | Faint odors noted on groundwater |
|   | - 43 -                            |             |         |             | 15             |      | 0.0                | 0.0         |      |            |           |                                  |
|   | - 44 -                            |             |         |             | 14             |      | 1.0                | 0.0         |      |            |           |                                  |
|   | - 45 -                            |             |         |             | 16             |      |                    |             |      |            |           |                                  |
| End of boring at 48.5 ft bgs, due to auger refusal; drillers noted cobbles first encountered at 47.5 feet bgs.  | - 44 -                            |             | 21      | 2.0         | 10             | 1302 | 3.0                | 0.0         | 1302 | N/A        | N/A       | No odors noted on groundwater    |
|   | - 45 -                            |             |         |             | 10             |      | 1.1                | 0.0         |      |            |           |                                  |
|   | - 46 -                            |             |         |             | 11             |      | 0.0                | 0.0         |      |            |           |                                  |
|   | - 47 -                            |             |         |             | 12             |      | 1.2                | 0.0         |      |            |           |                                  |
|   | - 46 -                            |             | 22      | 1.8         | 11             | 1312 | 1.1                | 0.0         | 1312 | N/A        | N/A       | No odors noted on groundwater    |
|   | - 47 -                            |             |         |             | 15             |      | 1.2                | 0.0         |      |            |           |                                  |
|   | - 48 -                            |             |         |             | 17             |      | 0.0                | 0.0         |      |            |           |                                  |
|   | - 49 -                            |             |         |             | 20             |      |                    |             |      |            |           |                                  |
|   | - 48 -                            |             | 23      | 0.3         | 100 / 1/2"     | 1342 | 0.0                | 0.0         | 1342 | N/A        | N/A       |                                  |
|   | - 49 -                            |             |         |             |                |      |                    |             |      |            |           |                                  |
|   | - 50 -                            |             |         |             |                |      |                    |             |      |            |           |                                  |

**LOG OF SOIL BORING SB-51**  
**AECOM Note: Ground Surface Elevation = 13.7 ft NAVD88**

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>14.96   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/16/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/16/06  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>45.8'  |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>19   |  | UNDIST.<br>N/A                     |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DIST.<br>19   |  | CORE<br>N/A                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | WATER DEPTH<br>FIRST 10   |  | COMPL.<br>N/A                      |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>N/A   |  | 24HR<br>N/A                        |  |
| DROP<br>30"   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |                                    |  |
| INSPECTOR<br>Eric Gaulin  |  |   |  |                                    |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS                                     |  |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|---|--|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |   |  |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |  |
| Cleared via hand digging to 4'; boring through asphalt; material appeared to be grayish brown silty clay, sand | - 0 -                                |             |         |                |                   |      |                       |                |      |               |              |   |  |
|  | - 1 -                                |             |         |                |                   |      |                       |                |      |               |              |   |  |
|  | - 2 -                                |             |         |                |                   |      |                       |                |      |               |              |   |  |
|  | - 3 -                                |             |         |                |                   |      |                       |                |      |               |              |   |  |
| 4.0-4.5 Grayish Green (GLE Y1 5/2 5G) SANDY CLAY (CL)  | - 4 -                                |             | 1       | 1.5            | 2                 | 0901 | 0.0                   | 0.0            | 0901 | N/A           | N/A          | No odors or other evidence of contamination |  |
| 4.5-5.0 Same as above (SAA) with bands of reddish gray (5YR5/2) fine SILTY SAND (CL/SM)                        | - 5 -                                |             |         |                | 3                 |      | 0.0                   | 0.0            |      |               |              |   |  |
| 5.0-5.2 Greenish gray (GLE Y2 5/1 10G) fine SANDY SILT (ML)  | - 6 -                                |             |         |                | 4                 |      | 0.0                   | 0.0            |      |               |              |   |  |
| 5.2-10.0 Reddish brown (5YR5/3) fine to medium SAND (SW), trace silt   | - 7 -                                |             |         |                | 4                 |      |                       |                |      |               |              |   |  |
|  | - 8 -                                |             | 2       | 1.5            | 4                 | 0904 | 0.0                   | 0.0            | 0904 | N/A           | N/A          | No odors or other evidence of contamination |  |
|  | - 9 -                                |             |         |                | 4                 |      | 0.0                   | 0.0            |      |               |              |   |  |
|  | - 10 -                               |             |         |                | 5                 |      | 0.0                   | 0.0            |      |               |              |   |  |
|  | - 11 -                               |             |         |                | 5                 |      | 0.0                   | 0.0            |      |               |              |   |  |
|  | - 12 -                               |             |         |                | 6                 |      |                       |                |      |               |              |   |  |
|  | - 13 -                               |             |         |                | 6                 |      |                       |                |      |               |              |   |  |

**LOG OF SOIL BORING SB-51**  
AECOM Note: Ground Surface Elevation = 13.7 ft NAVD88

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>14.96   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/16/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/16/06  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | COMPLETION DEPTH (FT BGS)<br>45.8' |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>19   |  | DIST.<br>19                        |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DROP<br>N/A   |  | UNDIST.<br>N/A                     |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  | CORE<br>N/A                        |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>30"   |  | COMPL.<br>N/A                      |  |
|   |  | INSPECTOR<br>Eric Gaulin  |  | 24HR<br>N/A                        |  |

| DESCRIPTION   | Sample Interval | Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS  |
|---|-----------------|----------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|--|
|   |                 |                |             | Number  | Recov. (ft) | Penetr. BL/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |  |
|   |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
| 10.0-12.0 Reddish brown (2.5YR5/4) fine to medium SAND (SW), trace clay, trace silt, 1% subrounded to subangular 1" diameter gravel |                 | - 10           | 11          | 4       | 1.5         | 4              | 0911 | 0.0                | 0.0         | 0911 | N/A        | N/A       | No odors or other evidence of contamination; this spoon moist                                      |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 6              |      |                    |             |      |            |           |  |
| 12.0-14.0 Reddish brown (2.5YR5/4) fine SILTY SAND (SM), with 10% coarse sand to fine gravel (2 to 4 mm in diameter)                |                 | - 12           |             | 5       | 1.8         | 5              | 0916 | 0.0                | 0.0         | 0916 | N/A        | N/A       | Sample SB-51(12.5-13.0) collected at 0922 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN |
|   |                 |                |             |         |             | 6              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 7              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 6              |      | 0.0                | 0.0         |      |            |           |  |
| 14.0-16.6 Reddish brown (2.5YR5/4) fine SILTY SAND (SM) grading to fine SANDY SILT (ML), trace clay                                 |                 | - 14           |             | 6       | 2.0         | 4              | 0918 | 0.0                | 0.0         | 0918 | N/A        | N/A       | No odors or other evidence of contamination  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
| 16.6-18.2 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)   |                 | - 16           |             | 7       | 1.8         | 5              | 0925 | 0.0                | 0.0         | 0925 | N/A        | N/A       | No odors or other evidence of contamination  |
|   |                 |                |             |         |             | 4              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 4              |      | 0.0                | 0.0         |      |            |           |  |
| 18.2-18.8 Reddish brown (2.5YR5/4) fine to medium SAND (SW), trace silt, 1% 1/4" diameter subrounded gravel                         |                 | - 18           |             | 8       | 2.0         | 4              | 0929 | 0.0                | 0.0         | 0929 | N/A        | N/A       | No odors or other evidence of contamination  |
|   |                 |                |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 7              |      | 0.0                | 0.0         |      |            |           |  |
|   |                 |                |             |         |             | 7              |      | 0.0                | 0.0         |      |            |           |  |
| 18.8-23.8 Reddish brown (2.5YR5/4) fine SAND (SP), trace silt   |                 | - 19           |             |         |             |                |      |                    |             |      |            |           |  |
|   |                 |                |             |         |             |                |      |                    |             |      |            |           |  |
|   |                 | - 20           |             |         |             |                |      |                    |             |      |            |           |  |

LOG OF SOIL BORING SB-51

AECOM Note: Ground Surface Elevation = 13.7 ft NAVD88

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, NJ                            |  | GROUND ELEVATION (FT. MSL)<br>14.96   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/16/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | COMPLETION DEPTH (FT BGS)<br>45.8'  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | NO. SAMPLES<br>19                  |  |
| CASING<br>N/A   |  | WATER DEPTH<br>10   |  | UNDIST.<br>N/A                     |  |
| CASING HAMMER<br>WEIGHT<br>N/A  |  | DROP<br>N/A   |  | CORE<br>N/A                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |                                    |  |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.  |  | DROP<br>30"   |  | INSPECTOR<br>Eric Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS  |
|---|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|--|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |  |
|   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| 18.8-23.8 Reddish brown (2.5YR5/4) fine SAND (SP), trace silt   | - 20 -                               |             | 9       | 2.0            | 7                 | 0938 | 0.0                   | 0.0            | 0938 | N/A           | N/A          | No odors or other evidence of contamination  |
|   | - 21 -                               |             |         |                | 8                 |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 22 -                               |             |         |                | 8                 |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 23 -                               |             |         |                | 8                 |      | 0.0                   | 0.0            |      |               |              |  |
| 23.8-27.0 TILL: Reddish brown (2.5YR5/4) fine to medium SAND (SW), trace clay, 50% gravel, angular to subangular, up to 1/2" diameter | - 22 -                               |             | 10      | 2.0            | 7                 | 0952 | 0.0                   | 0.0            | 0952 | N/A           | N/A          | No odors or other evidence of contamination  |
|   | - 23 -                               |             |         |                | 9                 |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 24 -                               |             |         |                | 10                |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 25 -                               |             |         |                | 9                 |      | 0.0                   | 0.0            |      |               |              |  |
| 27.0-33.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML), firm   | - 24 -                               |             | 11      | 2.0            | 10                | 0956 | 0.0                   | 0.0            | 0956 | N/A           | N/A          | Sample SB-51(27.0-27.5) collected at 1012 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN |
|   | - 25 -                               |             |         |                | 10                |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 26 -                               |             |         |                | 10                |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 27 -                               |             |         |                | 11                |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 27 -                               |             |         |                | 12                |      | 0.0                   | 0.0            |      |               |              | No odors or other evidence of contamination  |
|   | - 28 -                               |             | 13      | 1.1            | 10                | 1000 | 0.0                   | 0.0            | 1000 | N/A           | N/A          |  |
|   | - 29 -                               |             |         |                | 10                |      | 0.0                   | 0.0            |      |               |              |  |
|   | - 30 -                               |             |         |                | 13                |      | 0.0                   | 0.0            |      |               |              |  |

LOG OF SOIL BORING SB-51

AECOM Note: Ground Surface Elevation = 13.7 ft NAVD88

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>14.96   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/16/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/16/06  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>45.8'  |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>19   |  | DIST.<br>N/A                       |  |
| CASING HAMMER<br>WEIGHT<br>N/A  |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | UNDIST.<br>N/A                     |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | WATER DEPTH<br>FIRST<br>10  |  | CORE<br>N/A                        |  |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.  |  | DROP<br>N/A   |  | COMPL.<br>N/A                      |  |
| DROP<br>30"   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |  |                                    |  |
| INSPECTOR<br>Eric Gaulin  |  |   |  |                                    |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS                                     |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|---|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |   |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |
| 27.0-33.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML), firm  | - 30 -                               |             | 14      | 1.2            | 8                 | 1028 | 0.0                   | 0.0            | 1028 | N/A           | N/A          | No odors or other evidence of contamination |
|  | - 31 -                               |             |         |                | 11                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 31 -                               |             |         |                | 13                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 32 -                               |             |         |                | 14                |      |                       |                |      |               |              |   |
| 33.0-35.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML), with some 3/4" bands of fine to medium sand   | - 32 -                               |             | 15      | 1.3            | 10                | 1034 | 0.0                   | 0.0            | 1034 | N/A           | N/A          | No odors or other evidence of contamination |
|  | - 33 -                               |             |         |                | 12                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 34 -                               |             |         |                | 15                | 0.0  | 0.0                   |                |      |               |              |   |
| 35.0-45.0 TILL: consisting of reddish brown (2.5YR4/4) fine SILTY SAND (SM), some fine sandy silt, 50% fine (1/8") gravel consisting of white/red sandstone, red siltstone and argillite | - 34 -                               |             | 16      | 2.0            | 19                | 1050 | 0.0                   | 0.0            | 1050 | N/A           | N/A          | No odors or other evidence of contamination |
|  | - 35 -                               |             |         |                | 27                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 35 -                               |             |         |                | 38                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 36 -                               |             |         |                | 44                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 36 -                               |             |         | 17             | 2.0               | 30   | 1057                  | 0.0            | 0.0  | 1057          | N/A          |   |
| - 37 -   | - 37 -                               |             |         |                | 29                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 37 -                               |             |         |                | 37                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 38 -                               |             |         |                | 40                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 38 -                               |             |         |                | 18                | 1.5  | 21                    | 1121           | 0.0  | 0.0           | 1121         | N/A   |
| - 39 -   | - 39 -                               |             |         |                | 29                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 39 -                               |             |         |                | 25                | 0.0  | 0.0                   |                |      |               |              |   |
|  | - 40 -                               |             |         |                | 33                | 0.0  | 0.0                   |                |      |               |              |   |

**LOG OF SOIL BORING SB-51**

AECOM Note: Ground Surface Elevation = 13.7 ft NAVD88

|   |                                      |   |               |                                    |                          |
|---|--------------------------------------|---|---------------|------------------------------------|--------------------------|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |                                      | GROUND ELEVATION (FT. MSL)<br>14.96   |               | PROJECT NUMBER<br>020667601        |                          |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |                                      | FOREMAN<br>Roger Logel  |               | DATE COMPLETED<br>11/16/06         |                          |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |                                      | COMPLETION DEPTH (FT BGS)<br>45.8'  |               | ROCK DEPTH (FT)<br>not encountered |                          |
| TYPE BIT<br>Hollow-stem auger   | SIZE AND TYPE CORE BARREL<br>N/A     | NO. SAMPLES<br>19   | DIST.<br>19   | UNDIST.<br>N/A                     | CORE<br>N/A              |
| CASING<br>N/A   | WATER DEPTH<br>N/A                   | FIRST<br>10   | COMPL.<br>N/A | 24HR<br>N/A                        |                          |
| CASING HAMMER<br>WEIGHT<br>N/A  | DROP<br>N/A                          | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft SW from the southern corner of the Halladay Street / Forrest Street intersection. |               |                                    |                          |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     | SAMPLER HAMMER<br>WEIGHT<br>140 lbs. |   | DROP<br>30"   |                                    | INSPECTOR<br>Eric Gaulin |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS   |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|---|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |   |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |   |
| Augered through from 40 to 45 feet due to slow and difficult augering  | - 40 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - -                                  |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 41 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - -                                  |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 42 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - -                                  |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 43 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - -                                  |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 44 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - -                                  |             |         |                |                   |      |                       |                |      |               |              |   |
| 45.0-45.8 TILL: consisting of reddish brown (2.5YR4/4) fine SILTY SAND (SM), some fine sandy silt, 50% fine gravel consisting of sandstone and argillite | - 45 -                               |             | 19      | 0.8            | 100/4"            | 1216 | 0.0                   | 0.0            | 1216 | N/A           | N/A          | Sample SB-51 (45.0-45.5) collected at 1216 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN |
|  | - 46 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 47 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 48 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 49 -                               |             |         |                |                   |      |                       |                |      |               |              |   |
|  | - 50 -                               |             |         |                |                   |      |                       |                |      |               |              |   |



LOG OF SOIL BORING SB-40

AECOM Note: Ground Surface Elevation = 10.9 ft NAVD88

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>12.12   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/22/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/21/06  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>56   |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | NO. SAMPLES<br>27                  |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DROP<br>N/A   |  | DIST.<br>27                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft NE from the eastern corner of the Halladay Street / Carteret Avenue intersection. |  | UNDIST.<br>N/A                     |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>30"   |  | CORE<br>N/A                        |  |
|   |  | INSPECTOR<br>Eric Gaulin  |  | COMPL.<br>N/A                      |  |
|   |  |   |  | 24HR<br>N/A                        |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS                                     |  |
|---|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|---|--|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BL/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |   |  |
|   |                                   |             |         |             |                |      |                    |             |      |            |           |   |  |
| Cleared via hand digging to 4'; boring through asphalt; Fill consisted of brownish red sandy fill with visible red chromate ore processing residue (COPR) pellets | - 0 -                             |             |         |             |                |      |                    |             |      |            |           |   |  |
|   | - 1 -                             |             |         |             |                |      |                    |             |      |            |           |   |  |
|   | - 2 -                             |             |         |             |                |      |                    |             |      |            |           |   |  |
|   | - 3 -                             |             |         |             |                |      |                    |             |      |            |           |   |  |
| 4.0-6.0 FILL: consisting of reddish brown gravel, clay, black clinker   | - 4 -                             |             | 1       | 0.9         | 3              | 1249 | 0.0                | 0.0         | 1249 | N/A        | N/A       | No odors or other evidence of contamination |  |
|   | - 5 -                             |             |         |             | 4              | 0.0  | 0.0                |             |      |            |           |   |  |
|   | - 6 -                             |             |         |             | 6              | 0.0  | 0.0                |             |      |            |           |   |  |
|   | - 7 -                             |             |         |             | 4              |      |                    |             |      |            |           |   |  |
| 6.0-8.0 FILL: consisting of clinkers and gravel   | - 8 -                             |             | 2       | 0.7         | 3              | 1252 | 0.0                | 0.0         | 1252 | N/A        | N/A       | No odors or other evidence of contamination |  |
|   | - 9 -                             |             |         |             | 2              | 0.0  | 0.0                |             |      |            |           |   |  |
|   | - 10 -                            |             |         |             | 2              |      |                    |             |      |            |           |   |  |
|   | - 11 -                            |             |         |             | 4              |      |                    |             |      |            |           |   |  |
| 8.0-10.0 FILL: consisting of grayish black fine silty sand, some ash, some organic matter   | - 12 -                            |             | 3       | 0.9         | 2              | 1255 | 0.0                | 0.0         | 1255 | N/A        | N/A       | No odors or other evidence of contamination |  |
|   | - 13 -                            |             |         |             | 2              | 0.0  | 0.0                |             |      |            |           |   |  |
|   | - 14 -                            |             |         |             | 3              |      |                    |             |      |            |           |   |  |
|   | - 15 -                            |             |         |             | 3              |      |                    |             |      |            |           |   |  |

LOG OF SOIL BORING SB-40

AECOM Note: Ground Surface Elevation = 10.9 ft NAVD88

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>12.12   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE STARTED<br>11/21/06           |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | COMPLETION DEPTH (FT BGS)<br>56   |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | NO. SAMPLES<br>27                  |  |
| CASING<br>N/A   |  | WATER DEPTH<br>4.5  |  | UNDIST.<br>N/A                     |  |
| CASING HAMMER<br>WEIGHT<br>N/A  |  | DROP<br>N/A   |  | CORE<br>N/A                        |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft NE from the eastern corner of the Halladay Street / Carteret Avenue intersection. |  |                                    |  |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.  |  | DROP<br>30"   |  | INSPECTOR<br>Eric Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |                         | REMARKS   |     |                         |
|---|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|-------------------------|---|-----|-------------------------|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date            |   |     |                         |
|   |                                      |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
| 10.0-10.3 FILL: same as above (SAA), with black staining and oil-like odors<br><br>10.3-14.8 Weak red (2.5YR4/2) fine SILTY SAND (SM) | - 10 -                               |             | 4       | 1.0            | 2                 | 1304 | 0.1                   | 0.0            | 1304 | N/A           | N/A                     | Sample SB-40(10.0-10.5) collected at 1305 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN. Positive dye test from 10.0 to 10.5; tar-like odors |     |                         |
|   | - -                                  |             |         |                | 1                 | 0.0  | 0.0                   |                |      |               |                         |   |     |                         |
|   | - 11 -                               |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - 12 -                               |             |         | 5              | 1.0               | 2    | 1306                  | 0.0            | 0.0  | 1306          | N/A                     |   | N/A |                         |
|   | - -                                  |             |         |                |                   | 1    | 0.0                   | 0.0            |      |               |                         |   |     |                         |
| 14.8-16.0 brownish PEAT (PT), very fibrous  | - 13 -                               |             |         |                | 1                 |      |                       |                |      |               | Anaerobic, swampy odors |   |     |                         |
|   | - -                                  |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - 14 -                               |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - 15 -                               |             |         | 6              | 1.0               | 2    | 1314                  | 0.1            | 0.0  | 1314          |                         | N/A   | N/A |                         |
|   | - -                                  |             |         |                |                   | 2    | 0.1                   | 0.0            |      |               |                         |   |     |                         |
| 16.0-19.3 SAA, becoming higher in dark greenish gray (GLEYS 1 4/1 GY) CLAY (OH) content (50%) at bottom                               | - 16 -                               |             |         |                | 2                 |      |                       |                |      |               | Anaerobic, swampy odors |   |     |                         |
|   | - -                                  |             |         |                | 1                 | 10.2 | 0.0                   | 1316           | N/A  | N/A           |                         |   |     |                         |
|   | - 17 -                               |             |         |                | 2                 | 10.5 | 0.0                   |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                | 2                 | 22.3 | 0.0                   |                |      |               |                         |   |     |                         |
|   | - 18 -                               |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                | 2                 |      |                       |                |      |               |                         |   |     |                         |
| 19.3-20.6 Gray (GLEYS 1 5/N) SILTY CLAY (CL)  | - 18 -                               |             |         |                | 8                 | 1.7  | 1                     | 1320           | 14.0 | 0.0           | 1320                    | N/A   | N/A | Anaerobic, swampy odors |
|   | - -                                  |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
|   | - 19 -                               |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
|   | - 19 -                               |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
|   | - -                                  |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |
| - 20 -  |                                      |             |         |                |                   |      |                       |                |      |               |                         |   |     |                         |



**LOG OF SOIL BORING SB-40**  
**AECOM Note: Ground Surface Elevation = 10.9 ft NAVD88**

|   |  |   |  |                                    |  |
|---|--|---|--|------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street , Jersey City, NJ                           |  | GROUND ELEVATION (FT. MSL)<br>12.12   |  | PROJECT NUMBER<br>020667601        |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel  |  | DATE COMPLETED<br>11/22/06         |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/21/06  |  | ROCK DEPTH (FT)<br>not encountered |  |
| TYPE BIT<br>Hollow-stem auger   |  | COMPLETION DEPTH (FT BGS)<br>56   |  | ROCK DEPTH (FT)<br>not encountered |  |
| CASING<br>N/A   |  | NO. SAMPLES<br>27   |  | DIST.<br>27                        |  |
| CASING HAMMER<br>WEIGHT N/A   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | UNDIST.<br>N/A                     |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | WATER DEPTH<br>FIRST 4.5  |  | CORE<br>N/A                        |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>N/A   |  | COMPL.<br>N/A                      |  |
| DROP<br>30"   |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft NE from the eastern corner of the Halladay Street / Carteret Avenue intersection. |  |                                    |  |
| INSPECTOR<br>Eric Gaulin  |  |   |  |                                    |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |      |            | REMARKS   |           |
|---|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------|------------|---|-----------|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BU/6in | Time | Sample             | Ambient Air |      | Time | Head Space |   | Time Date |
|   |                                   |             |         |             |                |      |                    |             |      |      |            |   |           |
| 26.8-34.4 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)                     | - 30 -                            |             | 14      | 1.1         | 4              | 1431 | 2.2                | 0.0         | 1431 | N/A  | N/A        | Faint naphthalene-like odors, no sheen, no staining, no product; odors on groundwater; sample SB-40(30.5-31.0) collected at 1433 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN |           |
|   | - 31 -                            |             |         |             | 4              | 13.1 | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 5              | 4.5  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 4              | 8.0  | 0.0                |             |      |      |            |   |           |
| 34.4-36.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)                     | - 32 -                            |             | 15      | 1.5         | 3              | 1450 | 0.0                | 0.0         | 1450 | N/A  | N/A        | Faint naphthalene-like odors, no sheen, no staining, no product; odors on groundwater   |           |
|   | - 33 -                            |             |         |             | 5              | 0.0  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 5              | 0.0  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 7              |      |                    |             |      |      |            |   |           |
| 36.0-44.1 Reddish brown (2.5YR4/4) fine SANDY SILT (ML) and fine silty sand | - 34 -                            |             | 16      | 1.2         | 5              | 1453 | 0.0                | 0.0         | 1453 | N/A  | N/A        | Faint naphthalene-like odors, no sheen, no staining, no product; odors on groundwater   |           |
|   | - 35 -                            |             |         |             | 5              | 1.4  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 6              | 0.0  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 6              |      |                    |             |      |      |            |   |           |
|   | - 36 -                            |             | 17      | 1.6         | 5              | 1455 | 0.0                | 0.0         | 1455 | N/A  | N/A        | Faint naphthalene-like odors, no sheen, no staining, no product; odors on groundwater   |           |
|   | - 37 -                            |             |         |             | 6              | 0.0  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 6              | 0.0  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 5              |      |                    |             |      |      |            |   |           |
|   | - 38 -                            |             | 18      | 0.9         | 4              | 1459 | 2.1                | 0.0         | 1459 | N/A  | N/A        | No odors noted in this spoon  |           |
|   | - 39 -                            |             |         |             | 5              | 3.1  | 0.0                |             |      |      |            |   |           |
|   |                                   |             |         |             | 5              |      |                    |             |      |      |            |   |           |
|   |                                   |             |         |             | 6              |      |                    |             |      |      |            |   |           |
|   | - 40 -                            |             |         |             |                |      |                    |             |      |      |            | Drilling ended here 11 21-06  |           |

LOG OF SOIL BORING SB-40

AFCOM Note: Ground Surface Elevation = 10.9 ft NAVD88

|   |  |                                     |  |   |  |
|---|--|-------------------------------------|--|---|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, NJ                            |  | GROUND ELEVATION (FT. MSL)<br>12.12 |  | PROJECT NUMBER<br>020667601   |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  |  | FOREMAN<br>Roger Logel              |  | DATE COMPLETED<br>11/22/06  |  |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |  | DATE STARTED<br>11/21/06            |  | ROCK DEPTH (FT)<br>not encountered  |  |
| COMPLETION DEPTH (FT BGS)<br>56   |  | NO. SAMPLES<br>27                   |  | UNDIST. N/A   |  |
| TYPE BIT<br>Hollow-stem auger   |  | SIZE AND TYPE CORE BARREL<br>N/A    |  | CORE N/A  |  |
| CASING<br>N/A   |  | WATER DEPTH<br>4.5                  |  | COMPL. N/A  |  |
| CASING HAMMER<br>WEIGHT N/A   |  | DROP<br>N/A                         |  | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft NE from the eastern corner of the Halladay Street / Carteret Avenue intersection. |  |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     |  | INSPECTOR<br>Eric Gaulin            |  |   |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.   |  | DROP<br>30"                         |  |   |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |      | PID READINGS (PPM) |             |      |            |           | REMARKS  |
|---|-----------------------------------|-------------|---------|-------------|----------------|------|--------------------|-------------|------|------------|-----------|--|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BL/6in | Time | Sample             | Ambient Air | Time | Head Space | Time Date |  |
|   |                                   |             |         |             |                |      |                    |             |      |            |           |  |
| 36.0-44.1 Reddish brown (2.5YR4/4) fine SANDY SILT (ML) and fine silty sand   | - 40 -                            |             | 19      | 1.5         | 4              | 0829 | 0.0                | 0.0         | 0829 | N/A        | N/A       | Drilling resumed here on 11-22-06<br><br>Black brown oil material (OM) from 41.3 to 44.1; positive dye test at 42.5-43.0   |
|   | - 41 -                            |             |         |             | 5              |      | 0.0                | 0.0         |      |            |           |  |
|   | - 42 -                            |             |         |             | 4              |      | 4.0                | 0.0         |      |            |           |  |
|   | - 43 -                            |             |         |             | 4              |      |                    |             |      |            |           |  |
| 44.1-47.2 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)   | - 44 -                            |             | 20      | 1.0         | 3              | 0835 | 63                 | 0.0         | 0835 | N/A        | N/A       | Sample SB-40(42.5-43.0) collected at 850 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN  |
|   | - 45 -                            |             |         |             | 4              |      | 72                 | 0.0         |      |            |           |  |
|   | - 46 -                            |             |         |             | 4              |      |                    |             |      |            |           |  |
|   | - 47 -                            |             |         |             | 4              |      |                    |             |      |            |           |  |
| 47.2-48.3 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)   | - 48 -                            |             | 21      | 1.1         | 2              | 913  | 1.2                | 0.0         | 913  | N/A        | N/A       | Heavy black brown OM sheen and odors from 46.9 to 47.2<br><br>Sample SB-40(47.0-47.5) collected at 0926 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN |
|   | - 49 -                            |             |         |             | 2              |      | 0.6                | 0.0         |      |            |           |  |
|   | - 50 -                            |             |         |             | 2              |      |                    |             |      |            |           |  |
|   | - 51 -                            |             |         |             | 2              |      |                    |             |      |            |           |  |
| 48.3-55.4 Reddish brown (2.5YR4/4) and occasionally thinly interlaminated SILT (ML) and SILT CLAY (CL), with a 1" band of fine sand at 48.5 | - 52 -                            |             | 22      | 1.3         | 2              | 0918 | 0.0                | 0.0         | 0918 | N/A        | N/A       | No odors this spoon  |
|   | - 53 -                            |             |         |             | 2              |      | 0.0                | 0.0         |      |            |           |  |
|   | - 54 -                            |             |         |             | 3              |      | 0.0                | 0.0         |      |            |           |  |
|   | - 55 -                            |             |         |             | 3              |      |                    |             |      |            |           |  |
|   | - 56 -                            |             | 23      | 1.0         | 3              | 0930 | 0.0                | 0.0         | 0930 | N/A        | N/A       |  |
|   | - 57 -                            |             |         |             | 3              |      | 0.0                | 0.0         |      |            |           |  |
|   | - 58 -                            |             |         |             | 3              |      |                    |             |      |            |           |  |
|   | - 59 -                            |             |         |             | 4              |      |                    |             |      |            |           |  |
|   | - 60 -                            |             |         |             |                |      |                    |             |      |            |           |  |

**LOG OF SOIL BORING SB-40**  
**AECOM Note: Ground Surface Elevation = 10.9 ft NAVD88**

|   |                                  |   |                                    |
|---|----------------------------------|---|------------------------------------|
| PROJECT LOCATION<br>Halladay Street, Jersey City, NJ                            |                                  | GROUND ELEVATION (FT. MSL)<br>12.12   | PROJECT NUMBER<br>020667601        |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.                                  | FOREMAN<br>Roger Logel           | DATE STARTED<br>11/21/06  | DATE COMPLETED<br>11/22/06         |
| DRILLING EQUIPMENT<br>GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers |                                  | COMPLETION DEPTH (FT BGS)<br>56   | ROCK DEPTH (FT)<br>not encountered |
| TYPE BIT<br>Hollow-stem auger   | SIZE AND TYPE CORE BARREL<br>N/A | NO. SAMPLES<br>27   | DIST.<br>27                        |
| CASING<br>N/A   | WATER DEPTH<br>N/A               | FIRST<br>4.5  | UNDIST.<br>N/A                     |
| CASING HAMMER<br>WEIGHT<br>N/A  | DROP<br>N/A                      | BORING LOCATION: Eastern shoulder of Halladay Street, 30 ft NE from the eastern corner of the Halladay Street / Carteret Avenue intersection. |                                    |
| SAMPLER<br>2" diameter, 2' long split-spoon                                     | INSPECTOR<br>Eric Gaulin         |   |                                    |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.  | DROP<br>30"                      |   |                                    |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |      | PID READINGS<br>(PPM) |                |      |               |              | REMARKS  |
|--|--------------------------------------|-------------|---------|----------------|-------------------|------|-----------------------|----------------|------|---------------|--------------|--|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time | Sample                | Ambient<br>Air | Time | Head<br>Space | Time<br>Date |  |
|  |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| 48.3-55.4' Reddish brown (2.5YR4/4) and occasionally thinly interlaminated SILT (ML) and SILT CLAY (CL), with a 1" band of fine sand at 48.5 | - 50 -                               |             | 25      | 0.9            | 4                 | 0951 | 0.0                   | 0.0            | 0951 | N/A           | N/A          | Sample SB-40(55.0-55.5) collected at 1020 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN |
|  | - -                                  |             |         |                | 4                 |      | 0.0                   | 0.0            |      |               |              |  |
|  | - 51 -                               |             |         |                | 4                 |      | 0.0                   | 0.0            |      |               |              |  |
|  | - -                                  |             |         |                | 4                 |      |                       |                |      |               |              |  |
|  | - 52 -                               |             | 26      | 1.2            | 3                 | 1000 | 0.0                   | 0.0            | 1000 | N/A           | N/A          |  |
|  | - -                                  |             |         |                | 4                 |      | 0.0                   | 0.0            |      |               |              |  |
|  | - 53 -                               |             |         |                | 4                 |      |                       |                |      |               |              |  |
|  | - -                                  |             |         |                | 3                 |      |                       |                |      |               |              |  |
|  | - 54 -                               |             | 27      | 1.4            | 3                 | 1018 | 0.0                   | 0.0            | 1018 | N/A           | N/A          |  |
|  | - -                                  |             |         |                | 3                 |      | 0.0                   | 0.0            |      |               |              |  |
|  | - 55 -                               |             |         |                | 4                 |      |                       |                |      |               |              |  |
|  | - -                                  |             |         |                | 4                 |      |                       |                |      |               |              |  |
| - 56 -   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| End of Boring at 56'   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - 57 -   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - -  |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - 58 -   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - -  |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - 59 -   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - -  |                                      |             |         |                |                   |      |                       |                |      |               |              |  |
| - 60 -   |                                      |             |         |                |                   |      |                       |                |      |               |              |  |

LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | WATER DEPTH<br>FIRST 6.0'   |  | UNDIST. 0<br>CORE 0              |  |
| CASING HAMMER<br>WEIGHT N/A                                  |  | DROP N/A  |  | COMPL. N/A<br>24HR N/A           |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  |                                  |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.                            |  | DROP 30"  |  | INSPECTOR<br>E. Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS                                       |
|---|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|---|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 0-0.5' FILL: Black GRAVEL (GW), fine to medium sand, asphalt fragments.       | 0                                    |             | 1       | 1.0            | 26                | 13:12 | N/A                   | N/A            |      | N/A  | N/A          | Heavy rain affecting PID; PID not used        |
| 0.5-1.0' FILL: Black, gray and tan SAND (SP), mottled                         | 1                                    |             |         |                | 28                |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 19                |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 12                |       |                       |                |      |      |              |   |
| 2.0-10.5' FILL: Gray to black SAND (SP), firm. Trace coal and glass fragments | 2                                    |             | 2       | 1.0            | 3                 | 13:21 | N/A                   | N/A            |      | N/A  | N/A          |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
| 0.2' layer of black fine silty sand. Trace Clinker Material (CM) from 4.0'    | 4                                    |             | 3       | 1.0            | 3                 | 13:23 | N/A                   | N/A            |      | N/A  | N/A          | Organic odors noted                           |
|   |                                      |             |         |                | 3                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 3                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 3                 |       |                       |                |      |      |              |   |
| Black cinders and clinker material (CM), some white ash material (AM).        | 6                                    |             | 4       | 1.0            | 3                 | 13:25 | N/A                   | N/A            |      | N/A  | N/A          | No odors, loose, wet.                         |
|   |                                      |             |         |                | 1                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 3                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 1                 |       |                       |                |      |      |              |   |
| 10.5-11.0' Grayish brown (10YR 5/2) fine to medium SAND (SW), little silt.    | 10                                   |             | 6       | 1.0            | 2                 | 13:36 | N/A                   | N/A            |      | N/A  | N/A          | Suspected native soil at approximately 10.5'. |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 1                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 8                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 13                |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 15                |       |                       |                |      |      |              |   |

LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>N/A   |  | DIST.<br>6.0'   |  | CORE<br>0                        |  |
| WEIGHT<br>N/A  |  | FIRST<br>6.0'   |  | COMPL.<br>N/A                    |  |
| DROP<br>N/A  |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  | 24HR<br>N/A                      |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | INSPECTOR<br>E. Gaulin  |  |                                  |  |
| SAMPLER HAMMER<br>N/A  |  | DROP<br>30"   |  |                                  |  |
| WEIGHT<br>140 lbs.   |  |   |  |                                  |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS  |
|--|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|--|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |  |
|  |                                      |             |         |                |                   |       |                       |                |      |      |              |  |
| 12.0-12.2' Fragment of reddish brown siltstone   | - 12 -                               |             | 7       | 0.5            | 13                | 13:45 | N/A                   | N/A            |      | N/A  | N/A          | Organic odors noted.                                       |
| 12.2-12.6' Light reddish brown (5YR 6/3) fine SILTY SAND (SM)  | - 13 -                               |             |         |                | 11                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 9                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 3                 |       |                       |                |      |      |              |  |
| 14.0-14.5' Gray (GLE1 6/N) SILTY CLAY (CL)   | - 14 -                               |             | 8       | 1.5            | 1                 | 13:52 | N/A                   | N/A            |      | N/A  | N/A          |  |
| 14.5-18.7' Peat (PT) with coarse plant fragments.  | - 15 -                               |             |         |                | 1                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 1                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 1                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 3                 |       |                       |                |      |      |              |  |
| Less organic material from 16.0'   | - 16 -                               |             | 9       | 1.5            | 3                 | 13:57 | N/A                   | N/A            |      | N/A  | N/A          |  |
|  |                                      |             |         |                | 5                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 5                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 3                 |       |                       |                |      |      |              |  |
|  | - 18 -                               |             | 10      | 1.4            | 4                 | 14:07 | N/A                   | N/A            |      | N/A  | N/A          |  |
| 18.7-20.2' Greenish gray (GLE2 5/1) CLAY (CL), trace fine sand at top of spoon.  | - 19 -                               |             |         |                | 5                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 4                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 5                 |       |                       |                |      |      |              |  |
|  | - 20 -                               |             | 11      | 1.0            | 5                 | 14:15 | N/A                   | N/A            |      | N/A  | N/A          | Slight naphthalene-like odor at 21.0'.                     |
| 20.2-21.0' Dark greenish gray (GLE2 4/1) SILTY SAND and fine to medium SAND (SM), poorly sorted, little (10%) subrounded gravel. | - 21 -                               |             |         |                | 7                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 9                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 9                 |       |                       |                |      |      |              |  |
|  | - 22 -                               |             | 12      | 2.0            | 7                 | 14:20 | N/A                   | N/A            |      | N/A  | N/A          | Naphthalene-like odors, no visual indications of staining. |
| 22.0-23.7' Dark greenish gray (GLE2 4/1) fine to medium SAND (SW), little silt.  | - 23 -                               |             |         |                | 8                 |       |                       |                |      |      |              |  |
| 23.7-24.0' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt.   | - 23 -                               |             |         |                | 11                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 17                |       |                       |                |      |      |              |  |
|  | - 24 -                               |             |         |                |                   |       |                       |                |      |      |              |  |



LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>WEIGHT N/A                                  |  | DIST.<br>6.0'   |  | CORE<br>0                        |  |
| DROP<br>N/A  |  | WATER DEPTH<br>FIRST 6.0'   |  | COMPL.<br>N/A                    |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  | 24HR<br>N/A                      |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.                            |  | DROP<br>30"   |  | INSPECTOR<br>E. Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth (ft bgs) | Water Table | Samples |             |                |       | PID READINGS (PPM) |             |      |      |           | REMARKS   |  |
|---|-----------------------------------|-------------|---------|-------------|----------------|-------|--------------------|-------------|------|------|-----------|---|--|
|   |                                   |             | Number  | Recov. (ft) | Penetr. BL/6in | Time  | Sample             | Ambient Air | Time | Dust | Time Date |   |  |
|   |                                   |             |         |             |                |       |                    |             |      |      |           |   |  |
| 24.0-36.0' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt | - 24 -                            |             | 13      | 1.0         | 3              | 14:28 | N/A                | N/A         |      | N/A  | N/A       | 15:12 Collected sample SB-25 (25.5-26.0) forTCL VOC, TCL SVOC, TAL Metals, CN |  |
|   | - 25 -                            |             |         |             | 5              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 6              |       |                    |             |      |      |           |   | Slight odors   |
|   | - 26 -                            |             |         | 14          | 1.0            | 5     | 15:11              | N/A         | N/A  |      | N/A       | N/A   | Firm, wet. Odors still possibly associated with groundwater. |
|   | - 27 -                            |             |         |             | 5              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 6              |       |                    |             |      |      |           |   |  |
|   | - 28 -                            |             |         | 15          | 2.0            | 3     | 15:15              | N/A         | N/A  |      | N/A       | N/A   | Odors.   |
|   | - 29 -                            |             |         |             | 4              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 4              |       |                    |             |      |      |           |   |  |
|   | - 30 -                            |             |         | 16          | 1.0            | 1     | 15:28              | N/A         | N/A  |      | N/A       | N/A   | Naphthalene-like odors.                                      |
|   | - 31 -                            |             |         |             | 2              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 3              |       |                    |             |      |      |           |   |  |
|   | - 32 -                            |             |         | 17          | 1.5            | 3     | 15:35              | N/A         | N/A  |      | N/A       | N/A   | Odors.   |
|   | - 33 -                            |             |         |             | 4              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 4              |       |                    |             |      |      |           |   |  |
|   | - 34 -                            |             |         | 18          | 1.0            | 5     | 15:45              | N/A         | N/A  |      | N/A       | N/A   | Odors.   |
|   | - 35 -                            |             |         |             | 3              |       |                    |             |      |      |           |   |  |
|   |                                   |             |         |             | 3              |       |                    |             |      |      |           |   |  |
| - 36 -  |                                   |             |         |             | 3              |       |                    |             |      |      |           |   |  |

LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>WEIGHT N/A                                  |  | DIST.<br>6.0'   |  | CORE<br>0                        |  |
| DROP<br>N/A  |  | WATER DEPTH<br>FIRST 6.0'   |  | COMPL.<br>N/A                    |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  | 24HR<br>N/A                      |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.                            |  | DROP<br>30"   |  | INSPECTOR<br>E. Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS |   |
|---|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|---------|---|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |         |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |         |   |
| 36.0-38.5 Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt, grading to fine SILTY SAND (SM) | - 36                                 |             | 19      | 2.0            | 3                 | 15:50 | N/A                   | N/A            |      |      | N/A          | N/A     | Odors. Groundwater had greenish tinge.<br><br>15:59 Collected sample SB-25 (36.0-36.5)  |
|   | - 37                                 |             |         |                | 4                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 4                 |       |                       |                |      |      |              |         |   |
| 38.5-44.7' Reddish brown (2.5YR 4/4) SILTY FINE SAND and FINE SANDY SILT (SM), tight.                     | - 38                                 |             | 20      | 1.5            | 3                 | 15:58 | N/A                   | N/A            |      |      | N/A          | N/A     | Start drilling on 4/14/2004; no PID readings due to rain and humidity<br><br>Odors. Groundwater had noticeable greenish tinge.                              |
|   | - 39                                 |             |         |                | 4                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 5                 |       |                       |                |      |      |              |         |   |
| Becoming coarser with more silty fine sand.   | - 40                                 |             | 21      | 1.0            | 2                 | 8:40  | N/A                   | N/A            |      |      | N/A          | N/A     | Odors. Green tinge to groundwater.  |
|   | - 41                                 |             |         |                | 2                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 3                 |       |                       |                |      |      |              |         |   |
| 44.7-45.1' Reddish brown (2.5YR 4/4) FINE SILTY SAND (SM)   | - 42                                 |             | 22      | 2.0            | 3                 | 8:45  | N/A                   | N/A            |      |      | N/A          | N/A     | Odors and oil material (OM) 44.0-44.8'. Positive hydrophobic dye test.<br><br>9:03 Collected sample SB-25 (44.0-44.5) for TCL VOC, TCL SVOC, TAL Metals, CN |
|   | - 43                                 |             |         |                | 4                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |         |   |
| 45.1-63.5' SILTY FINE SAND (SM)   | - 44                                 |             | 23      | 2.0            | 5                 | 9:01  | N/A                   | N/A            |      |      | N/A          | N/A     | No sheen but slight odors noted.  |
|   | - 45                                 |             |         |                | 6                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 7                 |       |                       |                |      |      |              |         |   |
| 47.5-48.0' Reddish gray (2.5YR 5/1) CLAY (CL) with interbedded reddish brown (2.5YR 4/4) SILTY CLAY (CL). | - 46                                 |             | 24      | 2.0            | 5                 | 9:07  | N/A                   | N/A            |      |      | N/A          | N/A     | 9:10 Collected sample SB-25 (47.0-47.5) for TCL VOC, TCL SVOC, TAL Metals, CN   |
|   | - 47                                 |             |         |                | 5                 |       |                       |                |      |      |              |         |   |
|   |                                      |             |         |                | 8                 |       |                       |                |      |      |              |         |   |
|   | - 48                                 |             |         |                | 9                 |       |                       |                |      |      |              |         |   |

**LOG OF SOIL BORING SB-25**

**AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88**

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>WEIGHT<br>N/A                               |  | WATER DEPTH<br>FIRST<br>6.0'  |  | CORE<br>0                        |  |
| DROP<br>N/A  |  | COMPL.<br>N/A   |  | 24HR<br>N/A                      |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  |                                  |  |
| SAMPLER HAMMER<br>WEIGHT<br>140 lbs.                         |  | DROP<br>30"   |  | INSPECTOR<br>E. Gaulin           |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS   |
|---|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|---|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 48.0-54.0' Reddish gray (2.5YR 5/1) CLAY (CL), some lenses of reddish brown (2.5YR 4/4) silty clay, very firm, low plasticity     | - 48                                 |             | 25      | 1.5            | 3                 | 9:20  | N/A                   | N/A            |      | N/A  | N/A          | 9:27 Collected sample SB-25 (49.5-50.0) for TCL VOC, TCL SVOC, TAL Metals, CN |
|   | - 49                                 |             |         |                | 5                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 4                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 5                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 50.0' Some lenses of silty fine sand  | - 50                                 |             | 26      | 1.5            | 2                 | 10:33 | N/A                   | N/A            |      | N/A  | N/A          | Switched to mud rotary. Augers set at 49.0'                                   |
|   | - 51                                 |             |         |                | 2                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 4                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 5                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| Mostly reddish brown, thinly laminated clay and silty clay  | - 52                                 |             | 27      | 2.0            | 4                 | 10:48 | N/A                   | N/A            |      | N/A  | N/A          | No odors  |
|   | - 53                                 |             |         |                | 4                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 54.0-60.0' Reddish gray (2.5YR 5/1) and reddish brown (2.5YR 4/4) CLAY (CL), some red (2.5YR 5/6) silty clay lenses, more plastic | - 54                                 |             | 28      | 2.0            | 4                 | 11:01 | N/A                   | N/A            |      | N/A  | N/A          | No odors  |
|   | - 55                                 |             |         |                | 4                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 4                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 7                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 57.0' Predominantly reddish brown from 57.0'  | - 56                                 |             | 29      | 2.0            | 5                 | 11:07 | N/A                   | N/A            |      | N/A  | N/A          | No odors  |
|   | - 57                                 |             |         |                | 5                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |
| 60.0' Becoming mostly clay, highly plastic  | - 58                                 |             | 30      | 2.0            | 6                 | 11:10 | N/A                   | N/A            |      | N/A  | N/A          | PID could not be used due to rain; no odors noted.                            |
|   | - 59                                 |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 5                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                | 6                 |       |                       |                |      |      |              |   |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |   |

**LOG OF SOIL BORING SB-25**

**AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88**

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>N/A   |  | DIST.<br>6.0'   |  | CORE<br>0                        |  |
| WEIGHT<br>N/A  |  | FIRST<br>6.0'   |  | COMPL.<br>N/A                    |  |
| DROP<br>N/A  |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  | 24HR<br>N/A                      |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | INSPECTOR<br>E. Gaulin  |  |                                  |  |
| SAMPLER HAMMER<br>N/A  |  | DROP<br>30"   |  |                                  |  |
| WEIGHT<br>140 lbs.   |  |   |  |                                  |  |

| DESCRIPTION   | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS  |
|---|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|----------|
|   |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |          |
|   |                                      |             |         |                |                   |       |                       |                |      |      |              |          |
| Becoming firmer with more lenses of silty clay<br>60.0-63.5' Reddish gray (2.5YR 5/1) and reddish brown (2.5YR 4/4) CLAY and SILTY CLAY (CL), laminated, firm | - 60 -                               |             | 31      | 2.0            | 6                 | 11:35 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 61 -                               |             |         |                | 8                 |       |                       |                |      |      |              |          |
|   | - 62 -                               |             |         |                | 9                 |       |                       |                |      |      |              |          |
|   | - 63 -                               |             |         |                | 10                |       |                       |                |      |      |              |          |
| 63.5-63.7' Reddish brown (2.5YR 4/4) FINE SILTY SAND and FINE SAND (SM)   | - 62 -                               |             | 32      | 2.0            | 10                | 11:36 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 63 -                               |             |         |                | 9                 |       |                       |                |      |      |              |          |
| 63.7-64.5' Gray (GLEYS 1 6/N) CLAY and SILTY CLAY (CL), laminated   | - 63 -                               |             |         |                | 8                 |       |                       |                |      |      |              |          |
|   | - 64 -                               |             |         |                | 13                |       |                       |                |      |      |              |          |
| 65.5-65.0' Reddish gray (2.5YR 5/1) FINE SILTY SAND (SM)  | - 64 -                               |             | 33      | 2.0            | 8                 | 11:51 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 65 -                               |             |         |                | 7                 |       |                       |                |      |      |              |          |
| 65.0-72.0' Gray (5YR 5/1) and red (2.5YR 5/6) SILTY CLAY and CLAY (CL), laminated   | - 65 -                               |             |         |                | 9                 |       |                       |                |      |      |              |          |
|   | - 66 -                               |             |         |                | 11                |       |                       |                |      |      |              |          |
| More frequent reddish brown (2.5YR 4/4) silty clay layers.  | - 66 -                               |             | 34      | 2.0            | 10                | 11:54 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 67 -                               |             |         |                | 11                |       |                       |                |      |      |              |          |
| Occasional thin lenses of reddish brown (2.5YR 4/4) silty sand.   | - 67 -                               |             |         |                | 11                |       |                       |                |      |      |              |          |
|   | - 68 -                               |             |         |                | 13                |       |                       |                |      |      |              |          |
| Becoming coarser with trace silty fine sand and sandy fine silt from 71.0-72.0'.  | - 68 -                               |             | 35      | 2.0            | 10                | 12:10 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 69 -                               |             |         |                | 9                 |       |                       |                |      |      |              |          |
|   | - 70 -                               |             |         |                | 9                 |       |                       |                |      |      |              |          |
|   | - 71 -                               |             |         |                | 10                |       |                       |                |      |      |              |          |
|   | - 71 -                               |             |         |                | 7                 |       |                       |                |      |      |              |          |
|   | - 72 -                               |             |         |                | 7                 |       |                       |                |      |      |              |          |
|   | - 72 -                               |             | 36      | 2.0            | 7                 | 13:50 | N/A                   | N/A            |      | N/A  | N/A          | No odors |
|   | - 71 -                               |             |         |                | 5                 |       |                       |                |      |      |              |          |
|   | - 71 -                               |             |         |                | 7                 |       |                       |                |      |      |              |          |
|   | - 71 -                               |             |         |                | 7                 |       |                       |                |      |      |              |          |

LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                       |  |
|--|--|---|--|---------------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601           |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04            |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>29.0 95' |  |
| TYPE BIT 4.25" diameter                                      |  | SIZE AND TYPE CORE BARREL   |  | ROCK DEPTH (FT)<br>92.5'              |  |
| CASING N/A   |  | NO. SAMPLES   |  | DIST. 43                              |  |
| CASING HAMMER  |  | WATER DEPTH   |  | UNDIST. 0                             |  |
| WEIGHT N/A   |  | FIRST 6.0'  |  | CORE 0                                |  |
| DROP N/A   |  | COMPL. N/A  |  | 24HR N/A                              |  |
| SAMPLER 2" diameter 2' split-spoon                           |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  |                                       |  |
| SAMPLER HAMMER   |  | WEIGHT 140 lbs.   |  | INSPECTOR E. Gaulin                   |  |
|  |  | DROP 30"  |  |                                       |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs) | Water Table | Samples |                |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS  |
|--|--------------------------------------|-------------|---------|----------------|-------------------|-------|-----------------------|----------------|------|------|--------------|--|
|  |                                      |             | Number  | Recov.<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |  |
|  |                                      |             |         |                |                   |       |                       |                |      |      |              |  |
| 72.0-80.0' Reddish brown (2.5YR 4/4)<br>CLAYEY SAND (SC), few lenses of silty sand,<br>becoming more clayey occasional 1/4" band | - 72                                 |             | 37      | 2.0            | 5                 | 13:52 | N/A                   | N/A            |      | N/A  | N/A          | No odors   |
|  |                                      |             |         |                | 6                 |       |                       |                |      |      |              |  |
|  | - 73                                 |             |         |                | 6                 |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 7                 |       |                       |                |      |      |              |  |
| Becoming siltier from 77.5'  | - 74                                 |             | 38      | 2.0            | 8                 | 14:10 | N/A                   | N/A            |      | N/A  | N/A          | No odors   |
|  |                                      |             |         |                | 9                 |       |                       |                |      |      |              |  |
|  | - 75                                 |             |         |                | 10                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 11                |       |                       |                |      |      |              |  |
| Trace (<5%) fine gravel from 79.8-80.0'  | - 76                                 |             | 39      | 2.0            | 9                 | 14:20 | N/A                   | N/A            |      | N/A  | N/A          | No odors   |
|  |                                      |             |         |                | 9                 |       |                       |                |      |      |              |  |
|  | - 77                                 |             |         |                | 11                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 13                |       |                       |                |      |      |              |  |
| 80.0-80.7' TILL: GRAVEL (GW), subangular<br>to subrounded GRAVEL, some silty clay and<br>silty sand.                             | - 78                                 |             | 40      | 2.0            | 14                | 14:35 | N/A                   | N/A            |      | N/A  | N/A          | No odors   |
|  |                                      |             |         |                | 13                |       |                       |                |      |      |              |  |
|  | - 79                                 |             |         |                | 22                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 25                |       |                       |                |      |      |              |  |
| 80.0-80.7' TILL: GRAVEL (GW), subangular<br>to subrounded GRAVEL, some silty clay and<br>silty sand.                             | - 80                                 |             | 41      | 0.7            | 17                | 14:55 | N/A                   | N/A            |      | N/A  | N/A          | Gravel consisted of some<br>reddish brown sandstone<br>and siltstone pieces,<br>argillite. |
|  |                                      |             |         |                | 19                |       |                       |                |      |      |              |  |
|  | - 81                                 |             |         |                | 22                |       |                       |                |      |      |              |  |
|  |                                      |             |         |                | 14                |       |                       |                |      |      |              |  |
|  | - 82                                 |             |         |                |                   |       |                       |                |      |      |              | Switched to collecting<br>spoon every 5' as per<br>discussion with Marlene<br>Lindhardt.   |
|  | - 83                                 |             |         |                |                   |       |                       |                |      |      |              |  |
|  | - 84                                 |             |         |                |                   |       |                       |                |      |      |              |  |

LOG OF SOIL BORING SB-25

AECOM Note: Ground Surface Elevation = 11.7 ft NAVD88

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| PROJECT LOCATION<br>Halladay Street, Jersey City, New Jersey |  | GROUND ELEVATION (FT. MSL)<br>12.91   |  | PROJECT NUMBER<br>020667601      |  |
| DRILLING CONTRACTOR<br>Advanced Drilling, Inc.               |  | FOREMAN<br>R. Empson  |  | DATE COMPLETED<br>04/15/04       |  |
| DRILLING EQUIPMENT<br>Hollow Stem Auger                      |  | DATE STARTED<br>04/13/04  |  | COMPLETION DEPTH (FT BGS)<br>95' |  |
| TYPE BIT<br>4.25" diameter                                   |  | SIZE AND TYPE CORE BARREL<br>N/A  |  | ROCK DEPTH (FT)<br>92.5'         |  |
| CASING<br>N/A  |  | NO. SAMPLES<br>43   |  | UNDIST.<br>0                     |  |
| CASING HAMMER<br>WEIGHT N/A                                  |  | WATER DEPTH<br>FIRST 6.0'   |  | CORE<br>0                        |  |
| DROP<br>N/A  |  | COMPL.<br>N/A   |  | 24HR<br>N/A                      |  |
| SAMPLER<br>2" diameter 2' split-spoon                        |  | BORING LOCATION<br>In front of Halstead building, east side of Halladay St. |  |                                  |  |
| SAMPLER HAMMER<br>WEIGHT 140 lbs.                            |  | DROP<br>30"   |  | INSPECTOR<br>E. Gaulin           |  |

| DESCRIPTION  | Sample Interval<br>Depth<br>(ft bgs)           | Water Table | Samples |               |                   |       | PID READINGS<br>(PPM) |                |      |      |              | REMARKS  |
|--|--|-------------|---------|---------------|-------------------|-------|-----------------------|----------------|------|------|--------------|--|
|  |  |             | Number  | Recov<br>(ft) | Penetr.<br>BL/6in | Time  | Sample                | Ambient<br>Air | Time | Dust | Time<br>Date |  |
|  |  |             |         |               |                   |       |                       |                |      |      |              |  |
| 85.0-85.2' TILL: GRAVEL (GW), subangular to subrounded GRAVEL, some silty clay and silty sand. | - 84 -<br>- 85 -                               |             | 42      | 0.2           | 38<br>50/3"       | 15:21 | N/A                   | N/A            |      | N/A  | N/A          |  |
| 90.0-90.2' TILL: GRAVEL (GW), subangular to subrounded GRAVEL, some silty clay and silty sand. | - 86 -<br>- 87 -<br>- 88 -<br>- 89 -<br>- 90 - |             | 43      | 0.2           | 100/5"            | 15:37 | N/A                   | N/A            |      | N/A  | N/A          |  |
| 92.5-95.0' Black/dark gray argillite, weathered.   | - 91 -<br>- 92 -<br>- 93 -<br>- 94 -           |             |         |               |                   |       |                       |                |      |      |              | Had drillers continue to end of rod length (95') to confirm bedrock. Also put a screen at mud tube to confirm bedrock. Rock fragments were same black/dark gray argillite material. Drillers noted that this rock here seemed to be more weathered based on drilling progress. |
| End of boring at 95.0'   | - 95 -<br>- 96 -                               |             |         |               |                   |       |                       |                |      |      |              |  |

|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave     | <b>Drilling Company:</b> Ameridrill       |   |
| <b>Project Number:</b> 60240739           | <b>Drilling Method:</b> Soft Dig/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611365.67 |
| <b>Date Started Drilling:</b> 10/17/2005  | <b>Rig Type:</b>                          | <b>Coordinates (NJSPNAD83) y:</b> 682844.69 |
| <b>Date Finished Drilling:</b> 10/17/2005 | <b>Core Size:</b> 2 inches                | <b>Boring Total Depth:</b> 24 ft            |
| <b>Logged By:</b> S. McCray               | <b>Project Manager:</b> Scott Mikaelian   | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> proposed        |   | <b>Surface Elevation:</b> 11.0 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID        |
|----------------------|------------------|-----------|------------------|------|-------------|--|------------------|
| 1                    |                  |           |                  | NR   |             | Soft Dig 0'-5.5', No Recovery 0'-2'  |                  |
| 2                    |                  |           | dry              | FILL |             | Brown (7.5YR 4/3) SILT, little medium to fine Sand, trace Brick and Gravel, dry. (Hand Augered for Sample)             | 114-X35A-2-2.5   |
| 3                    |                  |           |                  | NR   |             | No Recovery  |                  |
| 4                    |                  |           |                  |      |             |  |                  |
| 5                    |                  |           |                  |      |             |  |                  |
| 6                    |                  |           | damp to wet      | FILL |             | Dusky red (2.5YR 3/2) fine to very fine SAND, some Silt, little Gravel, damp to wet.                                   | 114-X35B-6-6.5   |
| 7                    |                  |           |                  |      |             |  |                  |
| 8                    |                  |           |                  | NR   |             | No Recovery  |                  |
| 9                    |                  |           | wet              | FILL |             | Same As Above (SAA)  |                  |
| 10                   |                  |           |                  | FILL |             | Black fine to medium subangular GRAVEL (coal), little medium to fine Sand and Silt, trace Glass, yellow water present. | 114-X35C-9-9.5   |
| 11                   |                  |           |                  | NR   |             | Brown (7.5YR 4/3) SILT, trace fine to very fine Sand<br>No Recovery  |                  |
| 12                   |                  |           |                  |      |             |  |                  |
| 13                   |                  |           |                  |      |             |  |                  |
| 14                   |                  |           |                  |      |             |  |                  |
| 15                   |                  |           |                  |      |             |  |                  |
| 16                   |                  |           |                  | FILL |             | Dusky red (10R 3/4) medium to very fine SAND, little Silt, trace Gravel.   | 114-X35D-16-16.5 |
| 17                   |                  |           |                  | PEAT |             | Very dark gray (2.5YR 3/0) organic CLAY, little Silt and Meadow Mat.   | X35E             |
| 18                   |                  |           |                  | PEAT |             | Dark gray (2.5YR 4/0) Same As Above (SAA)  |                  |
| 19                   |                  |           |                  | NR   |             | No Recovery  |                  |
| 20                   |                  |           |                  |      |             |  |                  |
| 21                   |                  |           | wet to damp      | SAND |             | Gray (N6) medium to fine SAND, wood at 20.5'-20.7', wet at base, damp at top.  |                  |
| 22                   |                  |           |                  |      |             |  | X35F             |
| 23                   |                  |           |                  |      |             |  |                  |
| 24                   |                  |           |                  | NULL |             | End of Boring at 24 ft.  |                  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNDno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNOrg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

PPG - 2012-09 RA PPG LOGS - A.GDT. - 10/21/16 13:40

|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave     | <b>Drilling Company:</b> Ameridrill       |   |
| <b>Project Number:</b> 60240739           | <b>Drilling Method:</b> Soft Dig/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611519.13 |
| <b>Date Started Drilling:</b> 10/17/2005  | <b>Rig Type:</b>                          | <b>Coordinates (NJSPNAD83) y:</b> 682986.9  |
| <b>Date Finished Drilling:</b> 10/17/2005 | <b>Core Size:</b> 2 inches                | <b>Boring Total Depth:</b> 24 ft            |
| <b>Logged By:</b> S. McCray               | <b>Project Manager:</b> Scott Mikaelian   | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> proposed        |   | <b>Surface Elevation:</b> 11.7 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content  | USCS      | Graphic Log | Surface Cover and Thickness:   | Sample ID        |
|----------------------|------------------|-----------|-------------------|-----------|-------------|--|------------------|
|                      |                  |           |                   | ASPHALT   |             | (Soft Dig 0'-6') ASPHALT   |                  |
| 1                    |                  |           |                   | FILL      |             | Coarse and angular GRAVEL  | 114-X36A-0.8-1.3 |
|                      |                  |           |                   | FILL      |             | Dark reddish brown (2.5YR 3/4) coarse to fine SAND, some gray angular and dark reddish brown sub-rounded Gravel. 75% COPR. (Hand Augered for Sample) |                  |
| 2                    |                  |           |                   | NR        |             | No Recovery  | 114-X36B-2-2.5   |
|                      |                  |           |                   | FILL      |             | Very dark gray (2.5YR 3/0) GRAVEL, and coarse to fine Sand, little Silt. (Hand Augered for Sample)   |                  |
| 3                    |                  |           | wet at 4.0'       | NR        |             | No Recovery  |                  |
| 4                    |                  |           |                   |           |             |  |                  |
| 5                    |                  |           |                   |           |             |  |                  |
| 6                    |                  |           | damp              | FILL      |             | Very dark gray (2.5YR 3/0) SILT, and Wood, trace Glass and Brick, damp.  | 114-X36C-6-6.5   |
| 7                    |                  |           | damp to wet       | FILL      |             | Very dark gray (5YR 3/1) CLAY and SILT, trace fine to very fine Sand, damp to wet  |                  |
| 8                    |                  |           | damp to wet       | NR        |             | No Recovery  |                  |
| 9                    |                  |           | damp to wet       | FILL      |             | Dusky red (10R 3/3) SILT, some fine to very fine Sand, damp to wet.  |                  |
| 10                   |                  |           | damp to wet       | FILL      |             | Dark reddish brown (5YR 3/2) Same as above (SAA)   | 114-X36D-10-10.5 |
| 11                   |                  |           |                   | NR        |             | No Recovery  |                  |
| 12                   |                  |           |                   |           |             |  |                  |
| 13                   |                  |           |                   |           |             |  |                  |
| 14                   |                  |           |                   |           |             |  |                  |
| 15                   |                  |           |                   |           |             |  |                  |
| 16                   |                  |           | damp to wet moist | FILL PEAT |             | Reddish brown (2.5YR 4/4) fine to very fine SAND, little Silt, damp to wet PEAT, moist   | X36E             |
| 17                   |                  |           |                   |           |             |  |                  |
| 18                   |                  |           | damp              | SAND NR   |             | Gray (GLE Y N5) medium to very fine SAND, little Meadow Mat, damp No Recovery  |                  |
| 19                   |                  |           |                   |           |             |  |                  |
| 20                   |                  |           | wet               | SAND      |             | Gray SAA, wet  |                  |
| 21                   |                  |           |                   |           |             |  | X36F             |
| 22                   |                  |           |                   | NR        |             | No Recovery  |                  |
| 23                   |                  |           |                   |           |             |  |                  |
| 24                   |                  |           |                   | NULL      |             | End of Boring at 24 ft.  |                  |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:



|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave     | <b>Drilling Company:</b> Ameridrill       |   |
| <b>Project Number:</b> 60240739           | <b>Drilling Method:</b> Soft Dig/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611612.27 |
| <b>Date Started Drilling:</b> 10/17/2005  | <b>Rig Type:</b>                          | <b>Coordinates (NJSPNAD83) y:</b> 683079.96 |
| <b>Date Finished Drilling:</b> 10/17/2005 | <b>Core Size:</b> 2 inches                | <b>Boring Total Depth:</b> 24 ft            |
| <b>Logged By:</b> S. McCray               | <b>Project Manager:</b> Scott Mikaelian   | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> proposed        |   | <b>Surface Elevation:</b> 13.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS    | Graphic Log | Surface Cover and Thickness:  | Sample ID        |
|----------------------|------------------|-----------|------------------|---------|-------------|---|------------------|
|                      |                  |           |                  | ASPHALT |             | (Soft Dig 0'-6') ASPHALT  |                  |
| 1                    |                  |           |                  | FILL    |             | GRAVEL  |                  |
| 2                    |                  |           |                  | FILL    |             | Medium to very fine SAND, some Brick and Coal Ash. (Hand Augered for Sample)                | 114-X37A-1.5-2   |
| 3                    |                  |           |                  | NR      |             | No Recovery   |                  |
| 4                    |                  |           |                  |         |             |   |                  |
| 5                    |                  |           |                  |         |             |   |                  |
| 6                    |                  |           |                  |         |             |   |                  |
| 7                    |                  |           | dry              | FILL    |             | Dark gray medium to very fine SAND (Coal Ash), some fine Gravel, dry, loose.                | 114-X37B-6-6.5   |
| 8                    |                  |           |                  | NR      |             | No Recovery   |                  |
| 9                    |                  |           | wet moist        | FILL    |             | Reddish brown (2.5YR 4/3) fine-very fine SAND, some Silt, wet.                              |                  |
| 10                   |                  |           |                  | FILL    |             | Organic SILT, some Clay, little Meadow Mat, moist, H2S and petroleum-like odor              | 114-X37C-9-9.5   |
| 11                   |                  |           |                  | NR      |             | No Recovery   |                  |
| 12                   |                  |           |                  |         |             |   |                  |
| 13                   |                  |           | wet              | FILL    |             | Reddish brown (2.5YR 4/3) SILT, some fine to very fine Sand, wet                            |                  |
| 14                   |                  |           | wet              | FILL    |             | Organic SILT, some Clay, wet.   | 114-X37D-13.5-14 |
| 15                   |                  |           |                  | NR      |             | No Recovery   |                  |
| 16                   |                  |           | moist            | CLAY    |             | Organic CLAY, some Silt, little Meadow Mat, moist.  | X37E             |
| 17                   |                  |           | wet              | SAND    |             | Gray (Gley N5) medium to very fine SAND, little Silt, wet.                                  |                  |
| 18                   |                  |           |                  | NR      |             | No Recovery   |                  |
| 19                   |                  |           |                  |         |             |   |                  |
| 20                   |                  |           |                  |         |             |   |                  |
| 21                   |                  |           |                  | SAND    |             | Same As Above (SAA)   |                  |
| 22                   |                  |           |                  | NR      |             | No Recovery   |                  |
| 23                   |                  |           |                  | SAND    |             | Reddish brown (2.5YR 4/4) medium to fine SAND, little subangular to rounded Gravel and Silt | X37F             |
| 24                   |                  |           |                  | NR      |             | No Recovery   |                  |
| 24                   |                  |           |                  | NULL    |             | End of Boring at 24 ft.   |                  |

**Notes:**  
 bgs - below surface grade    COPR - chromite ore processing residue    UNdno - non-organic undisturbed native deposits    MGP - manufactured gas plant  
 MM - meadow mat    GGM - green grey mud    UNdorg - organic undisturbed native deposits    CCPW - chromate chemical production waste

Comments:

PPG - 2012-08 RA PPG LOGS\_A.GDT - 10/21/16 13:40

|   |   |   |
|---|---|---|
| <b>Project Name:</b> PPG Garfield Ave     | <b>Drilling Company:</b> Ameridrill       |   |
| <b>Project Number:</b> 60240739           | <b>Drilling Method:</b> Soft Dig/Geoprobe | <b>Coordinates (NJSPNAD83) x:</b> 611723.44 |
| <b>Date Started Drilling:</b> 10/17/2005  | <b>Rig Type:</b>                          | <b>Coordinates (NJSPNAD83) y:</b> 683198.87 |
| <b>Date Finished Drilling:</b> 10/17/2005 | <b>Core Size:</b> 2 inches                | <b>Boring Total Depth:</b> 24 ft            |
| <b>Logged By:</b> S. McCray               | <b>Project Manager:</b> Scott Mikaelian   | <b>Depth to Water:</b> NA                   |
| <b>Physical Location:</b> proposed        |   | <b>Surface Elevation:</b> 14.1 ft NAVD88    |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness:   | Sample ID          |
|----------------------|------------------|-----------|------------------|------|-------------|--|--------------------|
| 0-6                  |                  |           |                  | NR   |             | Soft Dig 0'-6', No Recovery  |                    |
| 6-7                  | wet              |           |                  | FILL |             | Dark brown (7.5YR 3/2) fine to very fine SAND, some Silt, trace Gravel, wet. | 114-X38A-6-6.5     |
| 7-8                  |                  |           |                  | NR   |             | No Recovery  |                    |
| 8-9                  | wet              |           |                  | FILL |             | Dusky red (10R 3/3) medium to fine SAND, some Silt, little Gravel, wet.      |                    |
| 9-10                 | wet              |           |                  | FILL |             | GRAVEL (Coal Ash), wet   |                    |
| 10-11                | damp             |           |                  | FILL |             | Very dark gray (2.5YR 3/0) fine to very fine SAND, little Silt, damp.        | 114-X38B-9.5-10    |
| 11-12                | moist            |           |                  | FILL |             | Dusky red (10R 3/3) medium to fine SAND, damp.                               |                    |
| 12-13                |                  |           |                  | NR   |             | Dark reddish brown (5YR 3/3) SILT, trace fine to very fine Sand, moist.      |                    |
| 13-14                |                  |           |                  | NR   |             | No Recovery  |                    |
| 14-15                | damp to wet      |           |                  | FILL |             | Olive (5Y 3/3) SILT, some fine to very fine Sand, damp to wet.               | 114-X38C-13.7-14.2 |
| 15-16                |                  |           |                  | NR   |             | No Recovery  |                    |
| 16-17                | wet              |           |                  | SAND |             | Dusky red (10R 3/3) medium to fine SAND, some Silt, little Gravel, wet.      |                    |
| 17-18                |                  |           |                  | NR   |             | No Recovery  | X38D               |
| 18-19                |                  |           |                  | NR   |             | No Recovery  |                    |
| 19-20                |                  |           |                  | SAND |             | Dusky red (10R 3/3) medium to fine SAND, trace Silt                          |                    |
| 20-21                |                  |           |                  | NR   |             | No Recovery  | X38E               |
| 21-22                |                  |           |                  | NR   |             | No Recovery  |                    |
| 22-23                |                  |           |                  | NR   |             | No Recovery  |                    |
| 23-24                |                  |           |                  | NULL |             | End of Boring at 24 ft.  |                    |

**Notes:**  
 bgs - below surface grade COPR - chromite ore processing residue UNdno - non-organic undisturbed native deposits MGP - manufactured gas plant  
 MM - meadow mat GGM - green grey mud UNdorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

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