

Appendix H

Boring Logs

Boring logs for the remaining sample locations in Forrest Street Properties (Block 21501, Lot 15) collected via soil core are included in this package. Logs were not generated for grab samples collected during excavation activities, typically designated by “PB” or “SW” in the Location ID.

Client: PPG Industries**Site:** Site 114**Site Location:** Jersey City, NJ**Geologist:** D. Sero**Drilling Company:** Advanced Drilling Inc**Driller:** Craig Conner**Drilling Date:** 12/19/2006**Well Completion Date:** 12/20/2006**Elevation:** 14.8 ft NAVD88**State Plane Coordinates:** X: 611569.8 Y: 683780.7**Drilling Method:** HSA

ENSR | AECOM

114-MW23B

Page: 1 of 4

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------|------------------------------------------------------|-----------|----------|-----------|------------------------------------------------------------------------------------------------|
| 0 | | Concrete Steel PVC Bent-cement grout | 0.0 | 15 | | ASPHALT |
| 1 | | | 0.0 | 8 | | Dark Reddish Brown (5YR 3/3) silty FILL, medium Sand and debris (wood, glass), dry. |
| 2 | | 114-MW23BA (2-2.5) Cr+6, TAL Metals | | 9 | | |
| 3 | | | 0.0 | 6 | | Dark Reddish Brown (2.5YR 2.5/4) SILT, trace fine Sand and fine Gravel, dry. |
| 4 | | | | 5 | | No Recovery |
| 5 | | | 0.0 | 3 | | |
| 6 | | | | 4 | | |
| 7 | | | 0.0 | 3 | | Brown (7.5YR 5/8) clayey fine SAND, trace fine Gravel, wet. No odor. |
| 8 | | | 0.0 | 1 | | |
| 9 | | | | - | | No Recovery |
| 10 | | | 0.0 | 2 | | |
| | | 114-MW23BB (6-7) Cr+6, TAL Metals | 0.0 | 1 | | Brown (7.5YR 5/8) clayey fine SAND layers and Reddish Brown (5YR 3/4) COPR (75%) wet. No odor. |
| | | 114-MW23BBD (6-7) Cr+6, TAL Metals | | 1 | | |
| | | | 0.0 | 2 | | Black peaty fine SAND, trace medium to fine Gravel, wet. No odor. |
| | | | | 1 | | No Recovery |
| | | | 0.0 | 2 | | Fall in from above |
| | | | | 2 | | |
| | | | 0.0 | 5 | | Dark Reddish Brown (5YR 3/4) clayey fine SAND, trace Gravel, wet. No odor. |
| | | | 0.0 | 7 | | |
| | | | | | | No Recovery |
| | | 114-MW23BC (10-10.5) Cr+6, TAL Metals | 0.0 | 6 | | Dark Redish Brown (5YR 3/4) clayey SAND, trace fine Gravel and medium angular Gravel, |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Client: PPG Industries**Site:** Site 114**Site Location:** Jersey City, NJ**Geologist:** D. Sero**Drilling Company:** Advanced Drilling Inc**Driller:** Craig Conner**Drilling Date:** 12/19/2006**Well Completion Date:** 12/20/2006**Elevation:** 14.88 ft NAVD88**State Plane Coordinates:** X: 611569.8 Y: 683780.7**Drilling Method:** HSA

ENSR | AECOM

114-MW23B

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| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------|------------------------------------------------------|-----------|----------|-----------|-----------------------------------------------------------------------------------------------------|
| 11 | | | | 3 | | wet. No odor. |
| | | | | 2 | | No Recovery |
| | | | | 4 | | |
| 12 | | | 0.0 | 6 | | Dark Redish Brown (5YR 3/4) clayey SAND, trace fine Gravel and medium angular Gravel, wet. No odor. |
| | | | | 8 | | |
| 13 | | | | 6 | | Dark Reddish Brown (5YR 3/4) clayey medium angular GRAVEL, wet. No odor. |
| | | | 0.0 | 6 | | No Recovery |
| 14 | | | | 1 | | Dark Reddish Brown (5YR 3/4) clayey SAND, trace fine to medium GRAVEL, wet. No odor. |
| | | | | 2 | | No Recovery |
| 15 | | | 0.0 | 1 | | |
| | | 114-MW23BD (16-16.5) Cr+6, TAL Metals | | 3 | | |
| 16 | | 114-MW23BE (16.5-17) Cr+6, TAL Metals | 0.0 | 2 | | Dark Reddish Brown (5YR 3/4) clayey SAND, trace fine to medium GRAVEL, wet. No odor. |
| | | | | 32 | | |
| 17 | | | 0.0 | 11 | | Meadow mat. Strong organic odor. |
| | | | | 3 | | No Recovery |
| 18 | | | N/A | 2 | | |
| | | | | 3 | | |
| 19 | | | | 2 | | |
| | | | | 2 | | |
| 20 | | 114-MW23BF (20.0-21.0) MS/MSD, Cr+6, TAL Metals | 13.2 | 6 | | Meadow mat. Black organic SILT and PEAT, 25% fibrous material, wet. Strong sulfur odor. |
| | | | | 11 | | |
| 21 | | 114-MW23BG (21.0-21.5) | 0.1 | 9 | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Client: PPG Industries**Site:** Site 114**Site Location:** Jersey City, NJ**Geologist:** D. Sero**Drilling Company:** Advanced Drilling Inc**Driller:** Craig Conner**Drilling Date:** 12/19/2006**Well Completion Date:** 12/20/2006**Elevation:** 14.8 ft NAVD88**State Plane Coordinates:** X: 611569.8 Y: 683780.7**Drilling Method:** HSA

ENSR | AECOM

114-MW23B

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| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------|------------------------------------------------------|-----------|----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Cr+6, TAL Metals | | | | |
| 22 | | | 0.1 | 6 | | Dark Bluish Gray (5PB 4/1) silty fine SAND, wet. |
| | | | 0.3 | 6 | | No Recovery |
| 23 | | | 0.0 | 7 | | Dark Bluish Gray (5PB 4/1) silty fine SAND, brown lamination at 23.5'-23.76', little Clay, wet. |
| | | | | 8 | | |
| 24 | | | 0.0 | 10 | | No Recovery |
| | | | | 4 | | Dark Greenish Gray (10Y 3/1) CLAY, wet. |
| 25 | | | 0.0 | 5 | | |
| | | | | 4 | | No Recovery |
| 26 | | | N/A | 4 | | Dark Greenish Gray (10Y 3/1) CLAY, wet. |
| | | | | 3 | | |
| 27 | | | | 4 | | Dark Greenish Gray (10Y 3/1) CLAY, wet. |
| | | | | 5 | | |
| 28 | | | N/A | 8 | | No Recovery |
| | | | | 6 | | |
| 29 | | | | 7 | | |
| | | | | 11 | | |
| 30 | | | 0.0 | 13 | | |
| | | | | 22 | | Reddish Brown (5YR 4/4) with some Green to Yellow mottling medium to coarse SAND, little medium to coarse angular Gravel, trace Silt, wet. No odor. |
| 31 | | #00 Sand Pack | 0.0 | 24 | | |
| | | | | 24 | | |
| | | | | 26 | | No Recovery |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Client: PPG Industries**Site:** Site 114**Site Location:** Jersey City, NJ**Geologist:** D. Sero**Drilling Company:** Advanced Drilling Inc**Driller:** Craig Conner**Drilling Date:** 12/19/2006**Well Completion Date:** 12/20/2006**Elevation:** 14.8 ft NAVD88**State Plane Coordinates:** X: 611569.8 Y: 683780.7**Drilling Method:** HSA

ENSR | AECOM

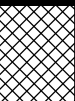


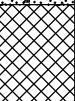

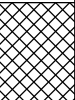
114-MW23B

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| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------|------------------------------------------------------|-----------|----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 32 | | #1 Sand Pack | 0.0 | 30 | | Reddish Brown (5YR 4/4) with some Green to Yellow mottling medium to coarse SAND, little medium to coarse angular Gravel, trace Silt, wet. No odor. |
| 33 | | | 0.0 | 27 | | |
| | | | | 24 | | |
| | | | | 28 | | No Recovery |
| 34 | | | 0.0 | 31 | | Reddish Brown (5YR 4/4) with some Green to Yellow mottling medium to coarse SAND, little medium to coarse angular Gravel, trace Silt, wet. No odor. |
| | | | | 19 | | |
| 35 | | PVC Screen | 0.0 | 19 | | |
| | | | | 22 | | No Recovery |
| 36 | | | 0.0 | 8 | | Red (2.5YR 4/6) silty fine SAND, fine laminations, wet. No odor. |
| | | | | 9 | | |
| 37 | | | 0.0 | 8 | | No Recovery |
| | | | | 19 | | |
| 38 | | | 0.0 | 9 | | Red (2.5YR 4/6) SAND, trace Silt, wet. No odor. |
| | | | | 11 | | |
| 39 | | | 0.0 | 14 | | No Recovery |
| | | | | 19 | | |
| 40 | | | 0.0 | 12 | | Red (2.5YR 4/6) SAND, trace Silt, wet. No odor. |
| | | | | 12 | | |
| 41 | | | 0.0 | 13 | | |
| | | | | 18 | | |
| 42 | | | | | | End of Boring at 42 ft. |
| | | | | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

| | | |
|------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Hurricane | Coordinates (NJSPNAD83) x: 611670 |
| Date Started Drilling: 11/29/2011 | Rig Type: | Coordinates (NJSPNAD83) y: 683682.5 |
| Date Finished Drilling: 12/1/2011 | Core Size: 12 in | Boring Total Depth: 15 ft |
| Logged By: M. Merdinger | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Forrest St | | Surface Elevation: 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 | | | dry | ASPHALT FILL |  | Asphalt and Gravel Very Dark Grayish Brown (10YR 3/2) fine to medium SAND and fine to medium rounded Gravel (5% COPR), little Silt, medium dense. | MW24A-0.0 |
| 2 | | | dry | FILL |  | Dark Reddish Brown (5YR 3/2) fine to medium SAND and fine to medium rounded Gravel (10% COPR), little Silt, medium dense. | MW24A-2.0 |
| 3 | | | wet | CONCRETE |  | Green-stained CONCRETE, weathered. | |
| 4 | | | wet | FILL |  | Black SILT, little fine angular Gravel, loose. Coal tar odor. | |
| 5 | | | wet | FILL |  | Black-stained medium to coarse crushed FILL (gravel, coal, glass, ceramics), little fine to coarse Sand and Silt, loose. | MW24A-5.0 |
| 6 | | | wet | VOID | | Slight coal tar odor. No Recovery. | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | wet | FILL |  | Black-stained medium to coarse crushed FILL (gravel, coal, glass, ceramics), little fine to coarse Sand and Silt, loose, sheen from 13.6 to 14.0 ft. Strong coal tar odor. | MW24A-10.0 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | moist | PEAT | | Dark Reddish Brown (5YR 3/2) PEAT, high Organics, some Silt, stiff. Sulfur and coal tar odor. | MW24A-14.0 |
| 15 | | | moist | SILT AND GRAVEL NULL | | Reddish Brown (2.5YR 5/4) SILT and fine angular Gravel, trace fine Sand, very dense. End of boring at 15 ft. Well set at 14 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:



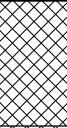











30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 114-P2B1-S14B

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










| | | |
|------------------------------------------------------|--------------------------------------------|-----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611582.5625 |
| Date Started Drilling: 1/21/2013 1:50:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 683779.625 |
| Date Finished Drilling: 1/22/2012 11:10:00 AM | Core Size: 3 in | Boring Total Depth: 20.5 ft |
| Logged By: BD | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: S14B | | |

(Note bgs = below ground surface)

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1 | 2 | 0.0 | dry | FILL |  | fine to medium SAND, with fine to coarse gravel, trace silt, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | |
| 2 | 1.6 | 0.0 | moist | FILL |  | fine silty SAND, with fine to coarse gravel, subangular, with brick, (7.5YR 3/2) dark brown, non plastic, dense, moist, no odor, no staining. | |
| 3 | | | | | | | |
| 4 | 1.2 | 0.0 | moist | NR | | NO RECOVERY | |
| 5 | | | | FILL |  | fine silty SAND, little fine gravel, (7.5YR 3/2) dark brown, non plastic, dense, moist, no odor, no staining. | |
| 6 | | | | NR | | NO RECOVERY | |
| 7 | 1 | 0.0 | moist | FILL |  | fine silty SAND, with fine to coarse gravel, subangular, (7.5YR 4/6) strong brown, non plastic, dense, moist, no odor, no staining. | |
| 8 | | | | NR | | NO RECOVERY | |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | 2 | 0.0 | dry | FILL |  | fine to medium SAND, trace fine gravel, trace brick, (7.5YR 3/2) dark brown, non plastic, soft, dry to moist, no odor, no staining. | |
| 11 | | 0.0 | slightly moist | FILL |  | fine silty SAND, (5YR 3/4) dark reddish brown (7.5YR 3/4) dark brown, non plastic, dense, slightly moist, no odor, no staining. | |
| 12 | | 0.0 | moist | FILL |  | fine SAND, some fine gravel, trace silt, (10YR 4/4) dark yellowish brown, non plastic, soft, moist, no odor, no staining. | |
| 13 | 2 | 0.0 | moist to wet | FILL |  | fine to medium silty SAND, with fine to medium gravel, (5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining. | 114-P2B1-S14B-13.0-13.5 |
| 14 | | | | NR | | fine to medium silty SAND, with fine to medium gravel, (5YR 3/1) very dark gray (7.5YR 3/2) dark brown, non plastic loose, moist to wet, no odor, no staining. | 114-P2B1-S14B-14.0-14.5 |
| 15 | | 0.0 | moist to wet | FILL |  | fine to medium silty SAND, with fine to medium gravel, (5YR 3/1) very dark gray (7.5YR 3/2) dark brown, non plastic loose, moist to wet, no odor, no staining. | 114-P2B1-S14B-14.0-14.5X |
| 16 | 0.6 | | | | | NO RECOVERY | |
| 17 | | 0.0 | moist to wet | FILL |  | fine to medium SAND, some silt and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining. | 114-P2B1-S14B-16.0-16.5 |
| 18 | | | | NR | | NO RECOVERY | |
| 19 | 1.7 | 0.0 | moist to wet | FILL |  | fine to medium SAND, with fine to coarse gravel, subangular, (7.5YR 3/2) dark brown, low plasticity, dense, moist to wet, no odor, no staining. | 114-P2B1-S14B-18.0-18.5 |
| 20 | | | | NR | | NO RECOVERY | |
| 20 | 0.5 | 0.0 | moist to wet | FILL |  | fine to medium SAND, with fine to coarse gravel, subangular, (7.5YR 3/2) dark brown, low plasticity, dense, moist to wet, no odor, no staining. | 114-P2B1-S14B-20.0-20.5 |

Comments: 1) 3 attempts were made to obtain best recovery 2) No CCPW (COPR or GGM) present in any interval of this boring

| | | |
|------------------------------------------------------|--------------------------------------------|-----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611596.0587 |
| Date Started Drilling: 1/17/2013 9:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683806.4021 |
| Date Finished Drilling: 1/18/2013 10:40:00 AM | Core Size: 3 in | Boring Total Depth: 20.5 ft |
| Logged By: EW | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: S15B | | Surface Elevation: 26.81 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 2 | 0.0 | dry | FILL |  | fine to medium SAND with silt and fine to coarse gravel, (7.5YR 5/4) brown, non plastic, dense, dry, no odor, no staining. | |
| 2 | | 0.0 | dry | FILL |  | fine to medium GRAVEL with fine to medium sand, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | |
| 3 | 1.4 | 0.0 | dry | FILL |  | fine silty SAND with fine to medium gravel some brick, (7.5YR 4/2) brown, non plastic, medium soft, dry, no odor, no staining. | |
| 4 | 1 | 0.0 | dry | FILL |  | NO RECOVERY | |
| 5 | | | | NR | | fine silty SAND with fine gravel trace coal, (7.5YR 5/4) brown, non plastic, dense, dry, no odor, no staining. | 114-P2B1-S15B-4.5-5.0 |
| 6 | 0 | | | NR | | NO RECOVERY | |
| 7 | | | | | | | |
| 8 | 2 | 0.0 | dry | FILL |  | SILT, some gravel with rock fragments, (2.5YR 4/4) reddish brown, non plastic, dense, dry, no odor, no staining. | 114-P2B1-S15B-8.5-9.0 |
| 9 | | 0.0 | | FILL |  | SILT, fine to medium sand gravel with rock fragments, (2.5YR 4/4) reddish brown, non plastic, dense, dry, no odor, no staining. | |
| 10 | 1.3 | | | | | | 114-P2B1-S15B-10.5-11.0 |
| 11 | | | | NR | | NO RECOVERY | |
| 12 | 1.3 | 0.0 | | FILL |  | SILT, some fine to medium sand, some fine to coarse gravel, (5YR 4/4) reddish brown, non plastic, dense, dry, no odor, no staining. | 114-P2B1-S15B-12.5-13.0 |
| 13 | | | | NR | | NO RECOVERY | |
| 14 | 0.8 | 0.0 | moist | FILL |  | fine silty SAND, some gravel, (5YR 4/4) reddish brown, non plastic, dense, moist to wet, no odor, no staining. | 114-P2B1-S15B-14.5-14.8 |
| 15 | | | | NR | | NO RECOVERY | |
| 16 | 1.5 | 0.0 | wet | FILL |  | fine to medium silty SAND, trace clay, some gravel, (5YR 4/4) reddish brown, low plasticity, medium dense, wet, no odor, no staining. | 114-P2B1-S15B-16.5-17.0 |
| 17 | | | | NR | | NO RECOVERY | |
| 18 | 1.5 | 0.0 | wet | FILL |  | fine to medium silty SAND, little clay, some gravel, (5YR 4/4) reddish brown, low plasticity, dense, wet, no odor, no staining. | 114-P2B1-S15B-18.5-19.0 |
| 19 | | | | NR | | NO RECOVERY | |
| 20 | 0.5 | 0.0 | moist | FILL |  | fine to medium silty SAND, some gravel, (10GY 5/1) greenish gray, non plastic, dense, moist, slight petroleum odor, sheen. | 114-P2B1-S15B-20.0-20.5 |

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) No CCPW (COPR or GGM) present in any interval of this boring

| | | |
|------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611684.6 |
| Date Started Drilling: 3/17/2014 8:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683680.2 |
| Date Finished Drilling: 3/17/2014 12:30:00 PM | Core Size: 3 in | Boring Total Depth: 40 ft |
| Logged By: EW | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Forrest Street - FS18 | | Surface Elevation: 11.6 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 | dry | FILL | | fine to medium SAND, with medium gravel and dense grade aggregate, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining. | FS18-0.0-0.5 |
| 2 | | 0.0 | dry to slight moist | FILL | | fine silty SAND, with fine to medium gravel, (7.5YR 3/2) dark brown, non plastic, soft, dry to slightly moist, no odor, no staining. | FS18-2.0-2.5 |
| 3 | | 0.0 | slightly moist | FILL | | COPR, with fine sand, (5YR 3/4) dark reddish brown, non plastic, soft, slightly moist, no odor, no staining. | |
| 4 | | 0.0 | slightly moist | FILL | | fine to medium SAND, with ash and cinders, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, no odor, no staining. | FS18-4.0-4.5 |
| 5 | | 0.0 | slightly moist | FILL | | fine SAND, trace silt with cinders, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, no odor, no staining. | |
| 6 | | | | NR | | NO RECOVERY | |
| 7 | 3.5 | 0.0 | moist | FILL | | fine SAND, and silt, (7.5YR 4/2) brown, non plastic, soft to loose, moist, no odor, no staining. | FS18-6.0-6.5 |
| 8 | | 29.4 | moist | FILL | | SILT, with cinders, trace fine sand, (7.5YR 2.5/1) black, non plastic, moist, no staining, MGP-like material with tar-like odors. | FS18-8.0-8.5 |
| 9 | | 0.0 | wet | FILL | | medium SAND, with fine gravel, (7.5YR 5/8) strong brown, non plastic, soft to loose, wet, no odor, no staining. | |
| 10 | | | | NR | | NO RECOVERY | |
| 11 | 5 | 0.0 | moist | FILL | | fine to medium SAND, trace fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist, no odor, no staining. | FS18-10.0-10.5 |
| 12 | | 16.5 | moist | FILL | | fine SAND, trace fine to medium gravel, (7.5YR 2.5/1) black, non plastic, soft, moist, slight tar odor, no staining. | FS18-12.0-12.5 |
| 13 | | 0.0 | wet | FILL | | fine silty SAND, (7.5YR 4/2) brown, non plastic, soft, wet, no odor, no staining. | FS18-14.0-14.5 |
| 14 | | | | | | | |
| 15 | 4 | 0.0 | moist to wet | SM | | medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-16.0-16.5 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | 0.0 | moist to wet | SM | | medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-18.0-18.5 |
| 19 | | | | NR | | NO RECOVERY | |
| 20 | | 0.0 | moist to wet | SM | | medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-20.0-20.5 |
| 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:













| | | |
|------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611684.6 |
| Date Started Drilling: 3/17/2014 8:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683680.2 |
| Date Finished Drilling: 3/17/2014 12:30:00 PM | Core Size: 3 in | Boring Total Depth: 40 ft |
| Logged By: EW | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Forrest Street - FS18 | | Surface Elevation: 11.6 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 23-24 | 5 | | | | | | FS18-22.0-22.5 |
| 24-25 | | | | | | | FS18-24.0-24.5 |
| 25-26 | | 0.0 | moist to wet | SM | | medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-26.0-26.5 |
| 26-27 | 4 | | | | | | FS18-28.0-28.5 |
| 27-28 | | | | | | | |
| 28-29 | | | | | | | |
| 29-30 | | | | NR | | NO RECOVERY | |
| 30-31 | | 0.0 | moist to wet | SM | | medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-30.0-30.5 |
| 31-32 | 4.5 | | | | | | FS18-32.0-32.5 |
| 32-33 | | | | | | | |
| 33-34 | | | | | | | FS18-34.0-34.5 |
| 34-35 | | | | NR | | NO RECOVERY | |
| 35-36 | | 0.0 | moist to wet | SM | | medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno. | FS18-36.0-36.5 |
| 36-37 | 4 | | | | | | FS18-38.0-38.5 |
| 37-38 | | | | | | | |
| 38-39 | | | | | | | |
| 39-40 | | | | NR | | NO RECOVERY | |
| 40-41 | | | | | | | |

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:

| | | |
|------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611703.9 |
| Date Started Drilling: 6/15/2015 9:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683733.7 |
| Date Finished Drilling: 6/15/2015 11:30:00 AM | Core Size: 2 in | Boring Total Depth: 35 ft |
| Logged By: EW | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Forrest Street - FS25 | | Surface Elevation: 18.4 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 | slightly moist | FILL |  | UNDno medium to coarse SAND, with asphalt with fine gravel, (7.5YR 2.5/1) black, slightly moist, no odor, no staining. | FS25-0.0-0.5 |
| 2 | | 0.0 | slightly moist | FILL |  | fine SAND, with medium gravel and ceramics, (7.5YR 3/2) dark brown, slightly moist, no odor, no staining. | FS25-2.0-2.5 |
| 3 | | 0.0 | slightly moist | FILL |  | fine to medium SAND, little fine sand and wood fragments, (7.5YR 4/2) brown, slightly moist, no odor, no staining, trace COPR identified @ 3.0-3.5' bgs. | |
| 4 | | | | NR | | NO RECOVERY. | FS25-3.0-3.5 |
| 5 | 4 | 0.0 | slightly moist | FILL |  | fine to medium SAND, little medium gravel, (5YR 3/2) dark reddish brown, slightly moist, no odor, no staining. | FS25-5.0-5.5 |
| 6 | | 0.0 | | |  | | FS25-6.0-6.5 |
| 7 | | 0.0 | | NR | | CONCRETE NO RECOVERY. | |
| 8 | | 0.0 | slightly moist | FILL |  | fine to medium SAND, little medium gravel, (5YR 3/2) dark reddish brown, slightly moist, no odor, no staining. | FS25-8.0-8.5 |
| 9 | | | | NR | | NO RECOVERY. | |
| 10 | 3 | 0.0 | wet | FILL |  | fine to medium SAND, little fine to medium gravel, (7.5YR 4/2) brown, wet, no odor, no staining. | FS25-10.0-10.5 |
| 11 | | | | | | | |
| 12 | | | | | | | FS25-12.0-12.5 |
| 13 | | 20.7 | wet | FILL NR |  | coarse GRAVEL, with fine sand, (7.5YR 2.5/2) very dark brown, wet, naphthalene-like odor, sheen. NO RECOVERY. | |
| 14 | | | | | | | |
| 15 | 3.5 | 0.0 | wet | FILL |  | fine to medium SAND, with coarse gravel and ceramics, (7.5YR 3/2) dark brown, wet, no odor, no staining. | FS25-15.0-15.5 |
| 16 | | | | SM |  | Fine SAND, some silt, trace roots, (10YR 5/2) grayish brown, moist, no odor, no staining. Soils consistent with UNDno. | FS25-16.0-16.5 |
| 17 | | 0.0 | moist | SM |  | UNDno fine to medium SAND, little fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno. | FS25-18.0-18.5 |
| 18 | | | | NR | | NO RECOVERY. | |
| 19 | | | | | | | |
| 20 | | 0.0 | moist | SM |  | UNDno fine to medium SAND, with fine to medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno. | FS25-20.0-20.5 |
| 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:

| | | |
|------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611703.9 |
| Date Started Drilling: 6/15/2015 9:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683733.7 |
| Date Finished Drilling: 6/15/2015 11:30:00 AM | Core Size: 2 in | Boring Total Depth: 35 ft |
| Logged By: EW | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Forrest Street - FS25 | | Surface Elevation: 18.4 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 23 | 4.5 | | | | | | FS25-22.0-22.5 |
| 24 | | | | | | | FS25-24.0-24.5 |
| 25 | | | | NR | | NO RECOVERY. | |
| 26 | | 0.0 | moist | SM | | UNDno fine to medium SAND, with fine to medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno. | FS25-26.0-26.5 |
| 27 | 3.5 | 0.0 | slightly moist | SM | | UNDno fine to medium SAND, (5YR 3/2) dark reddish brown, slightly moist, no odor, no staining. Soils consistent with UNDno. | FS25-28.0-28.5 |
| 28 | | | | | | | |
| 29 | | | | NR | | NO RECOVERY. | |
| 30 | | 0.0 | slightly moist | SM | | UNDno fine to medium SAND, (5YR 3/2) dark reddish brown, slightly moist, no odor, no staining. Soils consistent with UNDno. | FS25-30.0-30.5 |
| 31 | | | | | | | |
| 32 | 4.5 | | | | | | FS25-32.0-32.5 |
| 33 | | | | | | | |
| 34 | | | | | | | FS25-34.0-34.5 |
| 35 | | | | 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:

Ground surface elevation = 14.6 ft NAVD88

| AECOM | | Project Number: | | Boring ID: GT-19 | | | | |
|-------------------|---------------------------------------------|------------------------------------------------------------------|----------------|------------------------|----------|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site: | | PG SITE 114 - NORTH PROPERTY Boundary, NORTH CENTER OF IRM #2 | | Sheet: 1 of 3 | | | | |
| Project Manager: | | Logged By: KANDOL | | Date Started: 4/26/11 | | | | |
| Drilling Co.: SCS | | Driller: RANSA | | Date Finished: 4/27/11 | | | | |
| Ground Elev.: | | Depth of Boring: 50' | | Water Level: +1.4' | | | | |
| Depth | Elevation | Blow Counts | Lab Sample ID | Recovery | Moisture | PI | USCS | Classification of Material |
| feet | feet | | | Feet | | ppm | | USCS; Modified Burmeister |
| 0-1 | | | | | | | | ASPHALT AND 3/4" STONE |
| 1-2 | CHEM ANAL GT-19 1-2 | 9-12 | GT-19 1-2 | 12/12" | DRY | 00 00 | FILL | DARK BROWN 10YR 3/3 F-SAND, LITTLE 20% M-C SAND TRACE 10% F-M GRAVEL, CONCRETE AND BRICK, DRY, 50% COAR |
| 2-4 | 1-2 1315 WIS/MSD 1317 | 6-1/2" | GT-19 2-4 | 9/24" | DRY | 00 00 | FILL | DARK REDDISH BROWN 2.5YR 2.5/3 F-C SAND, SOME TO LITTLE, 20% ASH, LOOSE, DRY 80% COAR |
| 4-6 | CHEM ANAL GT-19 3-6 | 15-9 1-1 | GT-19 4-6 | 15/24" | WET | 00 00 00 | FILL | TOP 3"-SAA; WET BOTTOM 12"-DARK REDDISH BROWN 2.5YR 3/3 F-M SAND, LITTLE 20% SILT, TRACE 5% CLAY, LOOSE, WET, 100% WEATHERED COAR |
| 6-8 | 1335 | 1-1 1-2 | GT-19 4-8 | 2/24" | WET | 00 | FILL | SAA |
| 8-10 | | 3-3 4-7 | GT-19 8-10 | 12/24" | WET | 00 00 | FILL | BLACK ASH CINDERS, below 2" layer of BLACK VF SAND, COARSE, WET 10% COAR, SLIGHT PETROLEUM ODOR |
| 10-12 | CHEM ANAL GT-19 10-12 1342 DOPE | 10-9 7-5 | GT-19 10-12 | 12/24" | WET | 00 00 | FILL | ASH CINDERS, 10% COAR, SLIGHT, PETROLEUM ODOR |
| 12-14 | GT-119 10-12 1350 | 3-8 14-14 | GT-19 12-14 | 11/24" | MOIST | 00 | FILL | TOP 1" SAA BOTTOM 9" DARK REDDISH GRAY 5YR 4/2 VF-F SAND, SOME TO LITTLE 20% M-SUBGRADE, GRAVEL TRACE 20% SILT AND M. SAND, MED DENSE, MOIST |
| 14-16 | | 9-15 14-13 | GT-19 14-16 | NR | - | - | - | NO RECOVERY |
| 16-18 | CHEM ANAL GT-19 16-17 1414 | 4-2 5-4 | GT-19 16-18 | 12/24" | MOIST | 00 00 0-0 | SP PT | TOP 9"-REDDISH BROWN 5YR 5/4 F-SAND, LITTLE, 10% SILT, TRACE 15% M-C SAND AND F-GRAVEL, MED. DENSE, MOIST BOTTOM 3" PEAT |
| 18-20 | | 7-7 7-7 | GT-19 18-20 | 24/24" | MOIST | 00 | PT | PEAT, |
| 20-22 | | 3-4 5-6 | GT-19 20-22 | 24/24" | MOIST | | PT OL | TOP 11" PEAT GRADING TO A VERY DARK GRAY 7.5 YR 3/1, ORGANIC CLAY, MOD. PLASTIC, moist, soft BOTTOM 13" GRAY GLEY 1.5N ORGANIC SILT AND VF SAND GRADING TO CLAY AT BASE, soft, MOD PLASTIC |














Ground surface elevation = 14.6 ft NAVD88

| | | | | | | | | | |
|-------------------|--|-----------------|--|-----------------------------------------------------------------|--|------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| AECOM | | Project Number: | | PPG SITE 114 - NORTH PROPERTY BOUNDARY - NORTH CENTER OF IRM #2 | | Boring ID: | | GT-19 | |
| | | Site: | | | | Sheet: 2 of 3 | | | |
| Project Manager: | | Logged By: | | Date Started: | | Drilling Method: | | Ground Elev.: | |
| Drilling Co.: SGS | | Driller: | | Date Finished: | | Depth of Boring: | | Water Level: | |
| | | | | | | | | | |
| Depth | | Elevation | | Blow Counts | | Lab Sample ID | | Recovery | |
| feet | | feet | | | | | | Feet | |
| | | | | | | | | Moisture | |
| | | | | | | | | PID | |
| | | | | | | | | USCS | |
| | | | | | | | | Classification of Material | |
| | | | | | | | | USCS; Modified Burmeister | |
| 22 | | 14-5 | | GT-19 | | 14/24" | | MOIST | |
| 24 | | 7-8 | | 22-24 | | | | TO VERY MOIST | |
| | | | | | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SP | |
| | | | | | | | | TOP 4" GRAY GLEY 1 5/8" ORGANIC SILT GRADING TO BOTTOM 10" OF DARK GREENISH GRAY GLEY 2 4/5 BG V.F. SAND, TRACE 2.5% SILT AND ORGANICS, BOOSE, VERY MOIST | |
| 24 | | 4-1 | | GT-19 | | 18/24" | | MOIST | |
| 26 | | 2-3 | | 24-26 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | ML | |
| | | | | | | | | DARK OLIVE GRAY 5 3/32 SILT, LITTLE TO TRACE, 10% V.F. SAND AND CLAY, SOFT, NON-PLASTIC MOIST, TRACE 2% ORGANICS | |
| 26 | | 12-1 | | GT-19 | | 16/24" | | MOIST | |
| 28 | | 2-1 | | 26-28 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | ML | |
| | | | | | | | | SAA | |
| 28 | | 3-6 | | GT-19 | | 10/24" | | MOIST | |
| 30 | | 6-7 | | 28-30 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | ML | |
| | | | | | | | | DARK GRAY 5 1/2 SILT, LITTLE, 20% C-ANGULAR RED SILTSTONE GRAVEL, LITTLE TO TR. 10% CLAY, TRACE 2.5% V.F. SAND, SOFT, MOIST TO VERY MOIST | |
| 30 | | 6-5 | | GT-19 | | 12/24" | | VERY | |
| 32 | | 12-13 | | 30-32 | | | | MOIST | |
| | | | | | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SP | |
| | | | | | | | | REDDISH BROWN 2.5 1/2 V.F. SAND, LITTLE 10% M-F SUBROUNDED GRAVEL, SILT AND CLAY, TRACE 2.5% M-C SAND, MED DENSE, VERY MOIST | |
| 32 | | 21-23 | | GT-19 | | 15/24" | | VERY | |
| 34 | | 25-23 | | 32-34 | | | | MOIST | |
| | | | | | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SW | |
| | | | | | | | | WEAK RED 10 2 1/4 F-M SAND, SOME TO LITTLE 20% C-SAND AND F.M. ROUNDED TO SUBROUND GRAVEL, TRACE 2.5% SILT, MED. DENSE, VERY MOIST | |
| 34 | | 10-15 | | GT-19 | | 7/24" | | WET | |
| 36 | | 24-36 | | 34-36 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SW | |
| | | | | | | | | BROWN 7.5 1/2 F-C SAND, TRACE 2.5% F-SUBROUNDED GRAVEL, MED. DENSE, WET | |
| 36 | | 39-31 | | GT-19 | | 12/24" | | VERY | |
| 38 | | 38-38 | | 36-38 | | | | MOIST | |
| | | | | | | | | 2.0 | |
| | | | | | | | | 2.0 | |
| | | | | | | | | SW | |
| | | | | | | | | TO GM | |
| | | | | | | | | REDDISH BROWN 5 1/2 1/4 F-M SAND, LITTLE F-C SUBANGULAR GRAVEL, INCREASING WITH DEPTH, LITTLE, 10% C-SAND, TRACE 2.5% SILT, VERY DENSE, VERY MOIST TO WET | |
| 38 | | 11-18 | | GT-19 | | 12/24" | | MOIST | |
| 40 | | 14-27 | | 38-40 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SP | |
| | | | | | | | | TOP 2" SAA | |
| | | | | | | | | BOTTOM 10" - REDDISH BROWN 2.5 1/2 1/4 V.F. SAND, 1 1/2" BAND OF F.V.F. SAND ABOUT 39' 9", TRACE 2.5% SILT, MED. DENSE, MOIST | |
| 40 | | 19-19 | | GT-19 | | 15/24" | | MOIST | |
| 42 | | 18-26 | | 40-42 | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SP | |
| | | | | | | | | RED DISH BROWN 2.5 1/2 1/4 V.F. SAND, LITTLE TO TRACE 10% SILT, in 2" BANDS, TRACE 2.5% F-SAND, BAND, 1 1/2" THICK AROUND 41' 5", MED DENSE, MOIST | |
| 42 | | 17-16 | | GT-19 | | 14/24" | | VERY | |
| 44 | | 15-20 | | 42-44 | | | | MOIST | |
| | | | | | | | | 0.0 | |
| | | | | | | | | 0.0 | |
| | | | | | | | | SP | |
| | | | | | | | | REDDISH BROWN 2.5 1/2 1/4 V.F. SAND, TRACE 2.5% F-SAND AND SILT, MED DENSE, VERY MOIST | |

Ground surface elevation = 14.6 ft NAVD88

| | | | | | | | | |
|-----------------------|-----------|--------------------------------|----------------|------------------------|---------------------|----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| AECOM | | Project Number: | | Boring ID: GT-19 | | | | |
| | | Site: | | | | | | |
| Project Manager: | | Logged By: KANTOR | | Date Started: 4/26/11 | | | | |
| Drilling Co.: SCS | | Driller: RAOSA | | Date Finished: 4/27/11 | | | | |
| Sheet: 3 of 5 | | Drilling Method: 4 1/4" ID HSA | | Ground Elev.: -50' | | | | |
| Depth of Boring: -50' | | Water Level: 7-4' | | | | | | |
| Depth | Elevation | Blow Counts | Lab Sample ID | Recovery | Moisture | PID | USCS | Classification of Material |
| feet | feet | | | Feet | | ppm | | USCS; Modified Burmeister |
| 44 46 | | 7-10 13-26 | GT-19 44-46 | 18/24 | MOIST | 20 20 20 | SP | REDDISH BROWN 2.5YR 4/4 F-SAND, LITTLE 20% CLAYEY SILT BANDS AROUND 45', 42 AND 41 1/2" THICK, LOOSE TO MED DENSE, MOIST |
| 46 48 | | 18-22 24-25 | GT-19 46-48 | 16/24" | VERY MOIST | 00 00 00 | SP SC SP | TOP 4"-2" CLAYEY SILT BAND BELOW 2" F-SAND BOTTOM 12" REDDISH BROWN 2.5YR 4/4 VF-SAND MED. DENSE, VERY MOIST |
| 48 50 | | 6-10 15-24 | GT-19 48-50 | 16/24 | MOIST TO VERY MOIST | 00 00 00 | SP SP | TOP 14" REDDISH BROWN 2.5YR 4/4 F-VF SAND, MED DENSE MOIST, BOTTOM 2"- REDDISH BROWN 2.5YR 4/4 VF-SAND, MED. DENSE, VERY MOIST |
| END BORING AT 50 FEET | | | | | | | | |


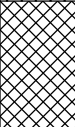


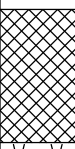


| | | |
|--------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611639.361 |
| Date Started Drilling: 6/6/2011 | Rig Type: | Coordinates (NJSPNAD83) y: 683733.753 |
| Date Finished Drilling: 6/6/2011 | Core Size: 12 | Boring Total Depth: 20 ft |
| Logged By: B. Daniels, M. Merdinger | Project Manager: Scott Mikaelian | Depth to Water: |
| Physical Location: | | Surface Elevation: 17.7 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | | | dry | ASPHALT |  | Black Asphalt | |
| 1 | | | dry | FILL |  | Very Dark Gray (7.5YR 3/1) fine to coarse SAND and fine to coarse sub-rounded GRAVEL, loose, no odor | ICO-19-0.5 |
| 2 | | | moist | FILL |  | Dark Brown (7.5YR 3/2) fine to coarse SAND, little Silt, some fine to coarse angular gravel, little Fill (brick, debris) loose, no odor | ICO-19-2.0 |
| 3 | | | dry | CONCRETE |  | Concrete | |
| 4 | | | wet | FILL |  | Dark Brown (7.5YR 3/2) fine to coarse SAND, little Silt, some fine to coarse angular Gravel, little Fill (brick, debris) loose, wet at 3.1 ft., no odor | ICO-19-4.0 |
| 5 | | | wet | FILL |  | Very Dark Brown (10YR 3/2) crushed fine to medium GRAVEL, trace Silt, loose, no odor | |
| 6 | | | moist | FILL |  | Very Dark Brown (10YR 3/2) SILT, little fine Sand, soft, no odor | |
| 7 | | | wet | FILL |  | Very Dark Brown (10YR 3/2) SILT and fine rounded GRAVEL, COPR (80%), little medium Sand, loose, no odor | ICO-19-6.5 |
| 8 | | | moist | FILL |  | Very Dark Brown (10YR 3/2) SILT, little fine Sand, soft, no odor | |
| 9 | | | wet | FILL |  | Brown (7.5YR 3/2) FILL (ash), little Cinders and Silt, moderately soft, no odor | ICO-19-8.0 |
| 10 | | | wet | NR | | No Recovery | |
| 11 | | | wet | FILL |  | Dark Brown (7.5YR 3/2) fine to medium SAND, little coarse Sand to fine rounded Gravel, little interbedded sandy Silt, loose to soft, no odor | ICO-19-10.0 |
| 12 | | | wet | NR | | No Recovery | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | moist | SM |  | Reddish Brown (2.5YR 4/3) fine SAND AND SILT, little to trace medium Sand, reed-like organics at 16.5' to 16.7', moderately dense, no odor | ICO-19-16.0 |
| 16 | | | | | | | |
| 17 | | | moist | PT |  | Very Dark Gray (10YR 3/1) PEAT, some Silt, trace Clay, organics, firm, sulphur odor | ICO-19-17.5 |
| 18 | | | moist | 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:

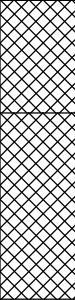

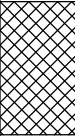

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611589.2 |
| Date Started Drilling: 9/20/2016 8:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683777.5 |
| Date Finished Drilling: 9/20/2016 8:40:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 16 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 12.94 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 | | FILL |  | 3" Trap Rock and DGA above liner | |
| 2 | | | | | | | |
| 3 | | | dry | FILL |  | fine to medium silty SAND, little fine to medium gravel, trace concrete, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | |
| 4 | | | | | | | |
| 5 | | | | NR | | NO RECOVERY | |
| 6 | 3.5 | 0.0 | moist | FILL |  | fine silty SAND, some fine to medium gravel, little fill debris, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | | | | | | | |
| 11 | 3 | 0.0 | moist | FILL |  | fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | |
| 12 | | | | | | | |
| 13 | | | | NR | | NO RECOVERY | |
| 14 | | | | | | | |
| 15 | 5 | 0.0 | wet | FILL |  | fine to medium silty SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining, water at 16.0 feet. | |
| 16 | | | | | | | |
| 17 | | | dry | PT |  | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, medium stiff, dry, no odor, no staining. Soils consistent with MM. | NFS-PDI-S14B-17.0-17.5 |
| 18 | | | | | | | |
| 19 | | | moist | OL |  | Organic SILT, 80% organic silt, 20% organic fibers, (5Y 5/1) gray, soft, moist, 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611598.2 |
| Date Started Drilling: 9/20/2016 8:45:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683806 |
| Date Finished Drilling: 9/20/2016 9:30:00 AM | Core Size: 3.0 in | Boring Total Depth: 20.5 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 16 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 15.11 ft NAVD88 |


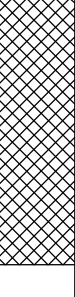
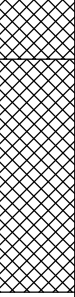
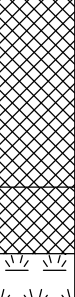
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | 4.5 | 0.0 | | FILL |  | 3" Trap Rock and DGA above liner | |
| 2 | | | moist | FILL | | fine to medium SAND, some fine to medium gravel, trace coal, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining. | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | NR | | NO RECOVERY | |
| 6 | 3.5 | 0.0 | dry | FILL |  | fine silty SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining. | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | | | | | | | |
| 11 | 2 | 1.0 | moist | FILL |  | fine to medium silty SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, dense, moist, slight petroleum odor, no staining. | |
| 12 | | | | | | | |
| 13 | | | | NR | | NO RECOVERY | |
| 14 | | | | | | | |
| 15 | 5 | 15.4 | wet | FILL |  | fine to medium silty SAND, trace fine to coarse gravel, (5YR 4/4) reddish brown, dense, wet, moderate petroleum odor, no staining, sheen, water at 16.0 feet. | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 1 | 1.0 | | | | | NFS-PDI-S15B-20.0-20.5 |

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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/7/16 23:32

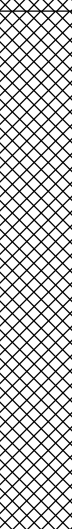
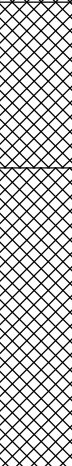


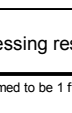
| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611590.8 |
| Date Started Drilling: 8/30/2016 9:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683727.3 |
| Date Finished Drilling: 8/30/2016 10:30:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: TI | Project Manager: Scott Mikaelian | Depth to Water: 11 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 18.7 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | 4.5 | 0.0 | dry | FILL |  | coarse GRAVEL, (5Y 5/1) gray, loose, dry, no odor, no staining. fine to coarse SAND, little coarse gravel, trace fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. | NFS-PDI-T12B-0.5-1.0 |
| 2 | | | moist | FILL | | | NFS-PDI-T12B-2.0-2.5 |
| 3 | | | moist | FILL | | SILT, little fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. | NFS-PDI-T12B-4.0-4.5 |
| 4 | | | | NR | | NO RECOVERY | |
| 5 | | | moist | FILL | | SILT, little fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. | NFS-PDI-T12B-6.0-6.5 |
| 6 | 4 | 0.0 | | NR |  | NO RECOVERY | NFS-PDI-T12B-8.0-8.5 |
| 7 | | | | NR | | | |
| 8 | | | | NR | | | |
| 9 | | | | NR | | | |
| 10 | | | | NR | | | |
| 11 | 4.5 | 0.6 | moist | FILL |  | coarse SAND, little fine to medium gravel, (5YR 4/3) reddish brown, loose, moist, no odor, no staining. | NFS-PDI-T12B-10.0-10.5 |
| 12 | | | wet | FILL | | CINDERS, (5Y 2.5/1) black, loose, wet, no odor, no staining, water at 11.0 feet. | NFS-PDI-T12B-12.0-12.5 |
| 13 | | | | NR | | | NFS-PDI-T12B-14.0-14.5 |
| 14 | | | | NR | | | |
| 15 | | | | NR | | | |
| 16 | 5 | 71.3 | wet | FILL |  | CINDERS, (7.5YR 2.5/1) black, dense, wet, strong MGP-like odor, product staining. | NFS-PDI-T12B-16.0-16.5 |
| 17 | | | | NR | | | |
| 18 | | | wet | FILL | | SILT, little fine to coarse gravel, trace fine sand, (5YR 4/3) reddish brown, soft, wet, slight MGP-like odor, no staining. | NFS-PDI-T12B-18.0-18.5 |
| 19 | | | | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | NFS-PDI-T12B-18.5-19.0 |
| 20 | | | dry | PT | | | NFS-PDI-T12B-19.0-19.5 |

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 - chromate chemical production waste

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

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611588.3 |
| Date Started Drilling: 11/11/2016 9:35:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683720.6 |
| Date Finished Drilling: 11/11/2016 10:15:00 AM | Core Size: 3.0 in | Boring Total Depth: 25 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 11 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 18.6 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 5 | 0.8 | dry | FILL FILL |  | 3" Trap Rock and DGA above liner fine to medium SAND, some fill debris, trace ash, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. | NFS-PDI-T12BR-0.2-0.7 |
| 2 | | | | | | | NFS-PDI-T12BR-2.0-2.5 |
| 3 | | | | | | | NFS-PDI-T12BR-4.0-4.5 |
| 4 | | | | | | | NFS-PDI-T12BR-6.0-6.5 |
| 5 | 5 | 1.5 | dry | FILL |  | fine to medium SAND, some ash slag, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-T12BR-8.0-8.5 |
| 6 | | | | | | | NFS-PDI-T12BR-10.0-10.5 |
| 7 | | | | | | | NFS-PDI-T12BR-12.0-12.5 |
| 8 | | | | | | | NFS-PDI-T12BR-14.0-14.5 |
| 9 | 5 | 3.4 | wet | FILL |  | fine to coarse SAND, little concrete and fill debris, trace ash and silt, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining, water at 11.0 feet. | NFS-PDI-T12BR-16.0-16.5 |
| 10 | | | | | | | NFS-PDI-T12BR-18.0-18.5 |
| 11 | | | | | | | NFS-PDI-T12BR-19.5-20.0 |
| 12 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 13 | 5 | 30.2 | wet | FILL |  | CINDERS, little ash, (5Y 2.5/1) black, loose, wet, moderate MGP-like odor, product staining, sheen. | NFS-PDI-T12BR-20.0-20.5 |
| 14 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 15 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 16 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 17 | 5 | 5.0 | moist | PT |  | fine to medium silty SAND, some coarse gravel, little cinders, trace organics, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, moist, slight MGP-like odor, no staining. Soils consistent with MM. | NFS-PDI-T12BR-20.0-20.5 |
| 18 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 19 | | | | | | | NFS-PDI-T12BR-20.0-20.5 |
| 20 | | | | | | | NFS-PDI-T12BR-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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.







Page: 2

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-------------------------------|---------------------|--------------|---------------------|------|-------------------------------------------------|------------------------------------------------------------------------------------|--------------|
| — 23 — 24 — 25 | 3.5 | | wet | ML | <div></div> <div></div> <div></div> <div></div> | SILT, (5Y 5/1) gray, soft, wet, no odor, no staining. Soils consistent with UNDno. | |
| | | | NR | NR | | NO RECOVERY | |
| | | | | | | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/7/16 23:32






| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611595.2 |
| Date Started Drilling: 8/31/2016 7:45:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683739.5 |
| Date Finished Drilling: 8/31/2016 8:45:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: TI | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 19.93 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 |  | coarse GRAVEL, (5Y 5/1) gray, medium dense, dry, no odor, no staining. medium to coarse SAND, little asphalt millings, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining. | NFS-PDI-T13B-0.5-1.0 |
| 2 | | | dry | FILL | | | NFS-PDI-T13B-2.0-2.5 |
| 3 | | | moist | FILL | | | NFS-PDI-T13B-4.0-4.5 |
| 4 | | | | NR | | | NFS-PDI-T13B-4.0-4.5 |
| 5 | | | | NR | | | NFS-PDI-T13B-4.0-4.5 |
| 6 | 5 | 0.0 | moist | FILL |  | SILT, some fine sand, concrete and brick, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | NFS-PDI-T13B-6.0-6.5 |
| 7 | | | | | | | NFS-PDI-T13B-8.0-8.5 |
| 8 | | | | | | | NFS-PDI-T13B-8.0-8.5 |
| 9 | | | moist | FILL | | | NFS-PDI-T13B-10.0-10.5 |
| 10 | | | | | | | NFS-PDI-T13B-10.0-10.5 |
| 11 | 4.5 | 0.0 | | |  | SILT, some fine sand, little fill debris, (2.5Y 5/2) grayish brown, soft, wet, no odor, no staining, water at 12.0 feet. | NFS-PDI-T13B-12.0-12.5 |
| 12 | | | wet | FILL | | | NFS-PDI-T13B-12.0-12.5 |
| 13 | | | | | | | NFS-PDI-T13B-14.0-14.5 |
| 14 | | | | NR | | | NFS-PDI-T13B-14.0-14.5 |
| 15 | | | | NR | | | NFS-PDI-T13B-14.0-14.5 |
| 16 | 4 | 0.0 | wet | FILL |  | CINDERS, (5YR 2.5/1) black, loose, saturated, no odor, no staining. | NFS-PDI-T13B-16.0-16.5 |
| 17 | | | wet | FILL | | | NFS-PDI-T13B-16.0-16.5 |
| 18 | | | dry | PT | | | NFS-PDI-T13B-17.0-17.5 |
| 19 | | | | | | | NFS-PDI-T13B-17.5-18.0 |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

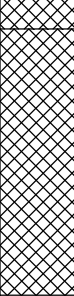
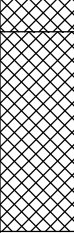
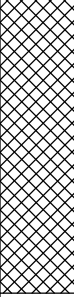
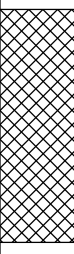

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611608.3 |
| Date Started Drilling: 8/31/2016 9:15:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683766.3 |
| Date Finished Drilling: 8/31/2016 10:15:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: TI | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 21.34 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 | dry | FILL |  | coarse GRAVEL, (5Y 5/1) gray, medium dense, dry, no odor, no staining. fine to coarse SAND, little silt and fill debris, (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining. | NFS-PDI-T14B-0.5-1.0 | |
| | | | dry to moist | FILL | | | NFS-PDI-T14B-2.0-2.5 | |
| | | | | | | | NFS-PDI-T14B-4.0-4.5 | |
| | | | | | | | | |
| 5 | | | | NR | | NO RECOVERY | | |
| 6-9 | 4 | 0.0 | moist | FILL |  | fine to coarse SAND, little concrete and fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, trace green-yellowish staining on concrete. | NFS-PDI-T14B-6.0-6.5 | |
| | | | | | | | NFS-PDI-T14B-8.0-8.5 | |
| | | | | | | | | |
| | | | | | | | | |
| 10 | | | | NR | | NO RECOVERY | | |
| 11-14 | 4.5 | 0.0 | moist | FILL |  | fine to coarse SAND, little silt, trace coarse gravel and fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. | NFS-PDI-T14B-10.0-10.5 | |
| | | | wet | FILL | | | fine SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, water at 12.0 feet. | NFS-PDI-T14B-12.0-12.5 |
| | | | | | | | | NFS-PDI-T14B-14.0-14.5 |
| | | | | | | | | |
| 15-18 | 4 | 0.0 | wet | FILL |  | coarse SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-T14B-16.0-16.5 | |
| | | | | | | | NFS-PDI-T14B-18.0-18.5 | |
| | | | | | | | | |
| | | | | | | | | |
| 19 | | | | NR | | NO RECOVERY | | |
| 20 | 1 | 0.0 | wet | FILL |  | fine SAND, some coarse gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-T14B-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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

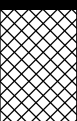
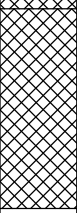
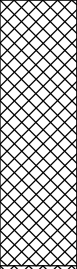
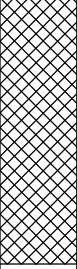
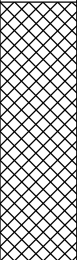
| | | |
|----------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611622 |
| Date Started Drilling: 9/2/2016 7:45:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683793 |
| Date Finished Drilling: 9/2/2016 8:45:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 8 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 23.53 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 2 3 4 | 4.5 | 0.0 | | FILL |  | 3" Stone cover | |
| | | | | FILL | | fine to coarse SAND, little coarse gravel and silt, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. | NFS-PDI-T15B-0.5-1.0 |
| | | | | | | | NFS-PDI-T15B-2.0-2.5 |
| | | | | NR | | NO RECOVERY | NFS-PDI-T15B-4.0-4.5 |
| 5 | 3.5 | 0.0 | moist | FILL |  | fine to coarse SAND, little coarse gravel and silt, (7.5YR 3/2) dark brown, loose, moist, no odor, no staining. | |
| 6 | | | moist to wet | FILL | | fine SAND, little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 8.0 feet. | NFS-PDI-T15B-6.0-6.5 |
| 7 | | | | | | | |
| 8 | | | | | | | NFS-PDI-T15B-8.0-8.5 |
| 9 | 4.5 | 0.0 | | NR |  | NO RECOVERY | |
| 10 | | | wet | FILL | | SILT, some fine sand, trace coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-T15B-10.0-10.5 |
| 11 | | | | | | | |
| 12 | | | | | | | NFS-PDI-T15B-12.0-12.5 |
| 13 | 3.5 | 0.0 | | NR |  | NO RECOVERY | |
| 14 | | | | | | | NFS-PDI-T15B-14.0-14.5 |
| 15 | | | wet | FILL | | SILT, some fine sand, little coarse gravel, trace wood, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | |
| 16 | | | | | | | NFS-PDI-T15B-16.0-16.5 |
| 17 | 4.5 | 0.0 | | NR |  | NO RECOVERY, Refusal at 19.0 feet. | |
| 18 | | | | | | | NFS-PDI-T15B-18.0-18.5 |
| 19 | | | | | | | |
| 20 | | | | | | | |

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) UNDo/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Sonic Drill | Coordinates (NJSPNAD83) x: 611623.341 |
| Date Started Drilling: 11/16/2016 10:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683792.146 |
| Date Finished Drilling: 11/16/2016 12:00:00 PM | Core Size: 3.0 in | Boring Total Depth: 28 ft |
| Logged By: EA | Project Manager: Scott Mikaelian | Depth to Water: 15 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 23.496 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 | moist | ASPHALT FILL |  | ASPHALT ASH, trace fine to coarse gravel, (5YR 2.5/1) black, loose, moist, no odor, no staining. | |
| 2 | | | moist | FILL |  | fine to medium silty SAND, little fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | NR | | No Recovery | |
| 6 | 8 | 0.0 | | FILL |  | BOULDERS and COBBLES, (5YR 4/1) dark gray, no staining. | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | 5 | 0.0 | moist | FILL |  | fine to medium silty SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 15.0 feet. | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | NR | | No Recovery | |
| 16 | 5 | 0.0 | | FILL |  | BOULDER, (5YR 6/1) gray, no staining. | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |

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






| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Sonic Drill | Coordinates (NJSPNAD83) x: 611623.341 |
| Date Started Drilling: 11/16/2016 10:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683792.146 |
| Date Finished Drilling: 11/16/2016 12:00:00 PM | Core Size: 3.0 in | Boring Total Depth: 28 ft |
| Logged By: EA | Project Manager: Scott Mikaelian | Depth to Water: 15 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 23.496 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 23 | 5 | 0.0 | wet | FILL |  | fine SAND, some silt, trace fine to meduim gravel, (5YR 5/1) gray, loose, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, moist, no odor, no staining. Soils consistent with MM. | NFS-PDI-T15BR-22.5-23.0 |
| 24 | | | moist | PT |  | | NFS-PDI-T15BR-23.0-23.5 |
| 25 | | | | |  | | |
| 26 | | | | |  | | |
| 27 | | | wet | ML |  | | |
| 28 | | | | | | SILT, (5YR 6/1) 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611611.9 |
| Date Started Drilling: 8/30/2016 7:35:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683707.1 |
| Date Finished Drilling: 8/30/2016 8:35:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: TI | Project Manager: Scott Mikaelian | Depth to Water: 10.5 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 17.2 ft NAVD88 |






| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | | |
|----------------------|------------------|-----------|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------|
| 1 2 3 4 | 5 | 0.0 | dry | FILL |  | coarse GRAVEL, (5Y 5/1) gray, loose, dry, no odor, no staining. fine to medium SAND, some fine to coarse gravel, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining. | NFS-PDI-U12B-0.5-1.0 | | | | |
| | | | dry | FILL | | | NFS-PDI-U12B-2.0-2.5 | | | | |
| | | moist | FILL |  | | Silty fine sand, little fill debris, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | NFS-PDI-U12B-4.0-4.5 | | | | |
| | | | | | | | NFS-PDI-U12B-6.0-6.5 | | | | |
| 6 7 8 9 | 5 | 0.0 | moist to wet | FILL |  | fine to coarse SAND, little silt, trace fill debris, (7.5YR 3/2) dark brown, medium dense, moist to wet, no odor, no staining, water at 10.5 feet. | NFS-PDI-U12B-8.0-8.5 | | | | |
| | | | | | | | NFS-PDI-U12B-10.0-10.5 | | | | |
| | | | | | | | wet | FILL |  | CINDERS, (5Y 2.5/1) black, loose, wet, strong MGP-like odor, product soaked. | NFS-PDI-U12B-12.0-12.5 |
| | | | | | | | | | | | NFS-PDI-U12B-14.0-14.5 |
| 15 16 17 18 | 4.5 | 15.4 | dry | PT |  | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (5YR 3/3) dark reddish brown (7.5YR 4/2) brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | NFS-PDI-U12B-16.0-16.5 | | | | |
| | | | | | | | moist | ML | Organic SILT, 10% organic fibers, 90% organic silt, (5YR 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | NFS-PDI-U12B-16.5-17.0 | |
| | | | | | | 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

PPG - 2012-09 RA PPG LOGS A.GDT - 12/7/16 23:32

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611622.2 |
| Date Started Drilling: 8/30/2016 9:05:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683726.2 |
| Date Finished Drilling: 8/30/2016 11:00:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: Eric Stone | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 18.1 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | 5 | 1.3 | dry | FILL |  | fine to medium SAND, little roots, little gravel, (5Y 7/1) light gray, medium dense, dry, no odor, no staining. | NFS-PDI-U13B-0.0-0.5 |
| 2 | | | dry | FILL | | ASPHALT MILLINGS, (5YR 2.5/1) black, dry, no odor, no staining. | |
| 3 | | | dry | FILL | | fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. | NFS-PDI-U13B-2.0-2.5 |
| 4 | | | dry | FILL | | Concrete debris, dry, no odor, no staining. | |
| 5 | | | dry | FILL | | fine to medium SAND, some fine to medium gravel, little brick, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-U13B-4.0-4.5 |
| 6 | 5 | 2.4 | dry | FILL |  | fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. | NFS-PDI-U13B-6.0-6.5 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | dry | FILL | | Concrete debris, dry, no odor, green staining. | NFS-PDI-U13B-8.0-8.5 |
| 10 | 5 | 3.7 | dry | FILL |  | fine SAND, some fine gravel, trace organics, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining. | NFS-PDI-U13B-10.0-10.5 |
| 11 | | | | | | | |
| 12 | | | wet | FILL | | ASH, (9.5/10YR /1) white, soft, wet, no odor, no staining, water at 12.0 feet. | NFS-PDI-U13B-12.0-12.5 |
| 13 | | | wet | FILL | | CINDERS, some silt, (5YR 2.5/1) black, loose, wet, slight MGP-like odor and staining. | |
| 14 | | | | | | | NFS-PDI-U13B-14.0-14.5 |
| 15 | 5 | 9.6 | wet | FILL |  | SILT, little wood, (5Y 2.5/1) black, soft, wet, moderate MGP-like odor, product soaked. | |
| 16 | | | wet | FILL | | fine silty SAND, some fine gravel, little wood, (5YR 4/4) reddish brown, medium dense, wet, slight MGP-like odor, product staining. | NFS-PDI-U13B-16.0-16.5 |
| 17 | | | | | | | |
| 18 | | | | | | | NFS-PDI-U13B-18.0-18.5 |
| 19 | | | | | | | NFS-PDI-U13B-18.5-19.0 |
| 20 | | | dry | PT |  | PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight MGP like odor and staining. Soils consistent with MM. | NFS-PDI-U13B-19.0-19.5 |

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

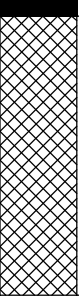
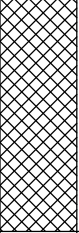
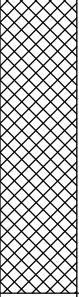
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|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611634.4 |
| Date Started Drilling: 8/31/2016 10:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683752.9 |
| Date Finished Drilling: 8/31/2016 11:40:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: KW | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 19.78 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 |  | DGA fine to medium SAND, trace fine to medium gravel, (7.5YR 6/3) light brown, loose, dry, no odor, no staining. ASPHALT MILLINGS, (5YR 2.5/1) black, loose, dry, no odor, no staining. | NFS-PDI-U14B-0.2-0.7 | | | |
| | | | dry | FILL | | | | | | |
| | | | dry | FILL | | | | | | |
| | | | dry to moist | FILL | | | fine to medium silty SAND, little fill debris, (7.5YR 3/3) dark brown, dense, dry to moist, no odor, no staining. | NFS-PDI-U14B-2.0-2.5 | | |
| 4-5 | 3.5 | 0.0 | moist | FILL |  | fine to coarse SAND, some fill debris, (7.5YR 3/3) dark brown, dense, moist, no odor, no staining. | NFS-PDI-U14B-4.0-4.5 | | | |
| | | | | | | | | | NFS-PDI-U14B-6.0-6.5 | |
| | | | | | | | | | NFS-PDI-U14B-8.0-8.5 | |
| | | | | NR | | No Recovery | | | | |
| 10-15 | 4.5 | 0.0 | dry | FILL |  | fine to medium SAND, little fine gravel, (7.5YR 6/3) light brown, loose, dry, no odor, no staining. fine to coarse SAND, some fine to medium gravel, little rock fragments, (7.5YR 3/3) dark brown, medium dense, moist to wet, no odor, no staining, water at 12.0 feet. | NFS-PDI-U14B-10.0-10.5 | | | |
| | | | moist to wet | FILL | | | | | | |
| | | | | | | | | NFS-PDI-U14B-12.0-12.5 | | |
| | | | | NR | | | | No Recovery | NFS-PDI-U14B-14.0-14.5 | |
| 15-20 | 5 | 0.0 | wet | FILL |  | fine to medium SAND, little fine to coarse gravel, trace rock fragments, (5YR 4/4) reddish brown, medium dense, saturated, no odor, no staining. | NFS-PDI-U14B-16.0-16.5 | | | |
| | | | | | | | | | | NFS-PDI-U14B-18.0-18.5 |
| | | | | | | | | | | |
| | | | 1 | 0.0 | | | | | NFS-PDI-U14B-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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611648.7 |
| Date Started Drilling: 9/2/2016 11:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683779.7 |
| Date Finished Drilling: 9/2/2016 12:00:00 PM | Core Size: 3.0 in | Boring Total Depth: 15 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 8 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 22.05 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------------|------------------|-----------|------------------|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 2 3 4 | 4.5 | 0.0 | moist | ASPHALT FILL |  | ASPHALT fine to coarse SAND, little silt and coarse gravel, trace brick, (7.5YR 3/2) dark brown, loose, moist, no odor, no staining. | NFS-PDI-U15B-0.3-0.8 |
| | | | | | | | NFS-PDI-U15B-2.0-2.5 |
| | | | | | | | NFS-PDI-U15B-4.0-4.5 |
| | | | | NR | | NO RECOVERY | |
| 5 6 7 8 | 3.5 | 0.0 | moist to wet | FILL |  | fine SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor no staining, water at 8.0 feet. | NFS-PDI-U15B-6.0-6.5 |
| | | | | | | | NFS-PDI-U15B-8.0-8.5 |
| | | | | NR | | NO RECOVERY | |
| | | | | | | | |
| 10 11 12 13 14 | 4.5 | 0.0 | wet | FILL |  | fine SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-U15B-10.0-10.5 |
| | | | | | | | NFS-PDI-U15B-12.0-12.5 |
| | | | | | | | NFS-PDI-U15B-14.0-14.5 |
| | | | | NR | | NO RECOVERY, Refusal at 15.0 feet | |
| 15 | | | | | | | |

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 - chromate chemical production waste

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

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: sonic rig | Coordinates (NJSPNAD83) x: 611650.5 |
| Date Started Drilling: 2/6/2017 12:30:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 683784.4 |
| Date Finished Drilling: 2/7/2017 10:35:00 AM | Core Size: 3.0 in | Boring Total Depth: 28 ft |
| Logged By: E. Acs | Project Manager: Scott Mikaelian | Depth to Water: 16.0 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 22.8 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 8 | 0.0 | dry | FILL | | fine to coarse SAND, some fine to coarse gravel, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining. | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | 8 | 0.0 | dry | FILL | | fine to medium SAND, trace silt and fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | 8 | 0.0 | moist | FILL | | fine SAND, some silt and fine to medium gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining. | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 10 | 0.0 | dry | FILL | | BOULDERS, trace cobbles, medium to coarse gravel and silt, (5Y 5/1) gray, dense, dry, no odor, no staining, water at 16.0 feet. | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 10 | 0.0 | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 5 | 0.0 | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 5 | 0.0 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | 5 | 0.0 | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | 5 | 0.0 | moist | FILL | | SILT, some fine to medium gravel, trace fine sand, (2.5Y 5/1) gray, soft, moist, no odor, no staining. | NFS-PDI-U15BR-23.5-24.0 |
| 26 | | | moist | PT | | PEAT (degraded vegetated material), 90% organic fibers, 10% organic silt, (5YR 3/3) dark reddish brown, soft, moist, slight organic odor, no staining. Soils consistent with MM. | NFS-PDI-U15BR-24.0-24.5 |
| 27 | | | | | | | |
| 28 | 5 | 0.0 | moist | OL | | organic SILT, (2.5Y 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 29 | | | | | | | |
| 30 | | | | | | | |

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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

PPG - 2012-09 RA PPG LOGS A.GDT - 3/22/17 09:06

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611637.5 |
| Date Started Drilling: 8/30/2016 7:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683687.2 |
| Date Finished Drilling: 8/30/2016 9:00:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: Eric Stone | Project Manager: Scott Mikaelian | Depth to Water: 9 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 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 | 1.0 | dry | FILL | | medium to coarse GRAVEL, (5Y 5/1) gray, loose, dry, no odor, no staining. | NFS-PDI-V12B-0.4-0.9 |
| 2 | | | dry | FILL | | fine to medium SAND, some asphalt, little ash slag, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-V12B-2.0-2.5 |
| 3 | | | dry | FILL | | ASPHALT MILLINGS, (5Y 2.5/1) black, loose, dry, no odor, no staining. | NFS-PDI-V12B-4.0-4.5 |
| 4 | | | dry | FILL | | fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. | NFS-PDI-V12B-6.0-6.5 |
| 5 | | | dry | FILL | | Concrete debris, dry, no odor, no staining. | NFS-PDI-V12B-8.0-8.5 |
| 6 | 5 | 1.6 | dry | FILL | | fine to medium SAND, some ash slag, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-V12B-10.0-10.5 |
| 7 | | | dry | FILL | | fine to medium SAND, some fine gravel, little fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. | NFS-PDI-V12B-12.0-12.5 |
| 8 | | | wet | FILL | | CINDERS, some fine to medium sand, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor and staining, water at 9.0 feet. | NFS-PDI-V12B-14.0-14.5 |
| 9 | 5 | 19.5 | wet | FILL | | CINDERS, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor, product soaked. | NFS-PDI-V12B-15.0-15.5 |
| 10 | | | | | | | NFS-PDI-V12B-15.5-16.0 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | 5 | 9.5 | dry | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight MGP-like odor, no staining. Soils consistent with MM. | NFS-PDI-V12B-16.0-16.5 |
| 15 | | | wet | SM | | SILT, trace organics, (7.5YR 6/4) light brown, soft, wet, no odor, no staining. Soils consistent with UNDorg. | NFS-PDI-V12B-16.5-17.0 |
| 16 | | | 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. | NFS-PDI-V12B-17.0-17.5 |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.








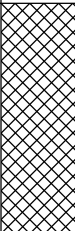

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611648.5 |
| Date Started Drilling: 8/29/2016 9:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683712.9 |
| Date Finished Drilling: 8/29/2016 11:00:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 8 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 15.29 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 | | FILL | | ASPHALT MILLINGS, no odor, no staining. | NFS-PDI-V13B-0.0-0.5 |
| 2 | | | dry | FILL | | fine to medium SAND, some fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | NFS-PDI-V13B-2.0-2.5 |
| 3 | | | | | | | |
| 4 | | | dry | FILL | | | NFS-PDI-V13B-4.0-4.5 |
| 5 | 4 | 0.0 | dry | FILL | | fine to medium SAND, little ash slag nodules, trace fine gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining. | |
| 6 | | | dry | FILL | | fine to medium SAND, little cinders, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | NFS-PDI-V13B-6.0-6.5 |
| 7 | | | | | | | |
| 8 | | | wet | FILL | | CINDERS, little ash, (7.5YR 2.5/1) black, loose, wet, no odor, no staining, water at 8.0 feet. | NFS-PDI-V13B-8.0-8.5 |
| 9 | 4.5 | 0.0 | | NR | | NO RECOVERY | |
| 10 | | | wet | FILL | | CINDERS, (7.5YR 2.5/1) black, loose, wet, no odor, no staining. | NFS-PDI-V13B-10.0-10.5 |
| 11 | | | wet | FILL | | fine silty SAND, little fine gravel, (5YR 5/3) reddish brown, medium dense, wet, no odor, no staining. | |
| 12 | | | | | | | NFS-PDI-V13B-12.0-12.5 |
| 13 | 5 | 0.0 | | | | | |
| 14 | | | | NR | | NO RECOVERY | NFS-PDI-V13B-14.0-14.5 |
| 15 | | | wet | FILL | | SILT, little organic fibers, trace ash, (5YR 6/3) light reddish brown, soft, wet, no odor, no staining. | NFS-PDI-V13B-15.0-15.5 |
| 16 | | | 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. | NFS-PDI-V13B-15.5-16.0 |
| 17 | | | moist | OL | | Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 18 | | | wet | SM | | fine silty SAND, (5Y 5/1) gray, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | |
| 19 | 5 | 0.0 | | | | | |
| 20 | | | wet | SP | | fine to coarse SAND, little fine to medium gravel, (5YR 5/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno. | |


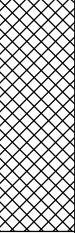
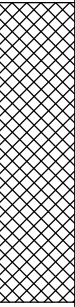
Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Sonic Drill | Coordinates (NJSPNAD83) x: 611662.16 |
| Date Started Drilling: 11/14/2016 10:40:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683739.904 |
| Date Finished Drilling: 11/14/2016 12:55:00 PM | Core Size: 3.0 in | Boring Total Depth: 18 ft |
| Logged By: Kyle Willis | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 18.219 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|---------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| | 5 | 1.5 | | ASPHALT |  | ASPHALT | |
| 1 | | | dry to moist | FILL |  | fine to coarse SAND, little silt, fill debris, coal, (5YR 2.5/1) black, medium dense, dry to moist, no odor, no staining. | |
| 2 | | | | FILL |  | BOULDER, (5YR 2.5/1) black, no staining. | |
| 3 | | | moist | FILL |  | SILT, little fill debris, (5YR 2.5/1) black, firm, moist, no odor, no staining. | |
| 4 | | | | FILL |  | BOULDER, (5YR 6/1) gray, no staining. | |
| 5 | | | | NR | | NO RECOVERY | |
| 6 | 4 | 0.0 | | | | | |
| 8 | | | moist | FILL |  | fine to coarse GRAVEL, (5YR 6/1) gray, medium dense, moist, no odor, no staining. | |
| 10 | | | | FILL |  | BOULDER, (5YR 4/1) dark gray, no staining. | |
| 11 | | | NR | | NO RECOVERY | | |
| 12 | 5 | 0.0 | moist to wet | FILL |  | SILT, some fine to coarse gravel, (7.5YR 4/2) brown, moist to wet, no odor, no staining, water at 16.0 feet. | NFS-PDI-V14BR-13.0-13.5 |
| 13 | | | | | | | NFS-PDI-V14BR-15.0-15.5 |
| 14 | | | | | | | NFS-PDI-V14BR-16.0-16.5 |
| 15 | | | moist | PT |  | PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (5YR 2.5/1) black, moist. slight organic odor, no staining. Soils consistent with MM. | NFS-PDI-V14BR-16.5-17.0 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611675.5 |
| Date Started Drilling: 9/1/2016 11:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683766.2 |
| Date Finished Drilling: 9/1/2016 12:00:00 PM | Core Size: 3.0 in | Boring Total Depth: 15 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 21.09 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 | ASPHALT FILL |  | ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black, medium dense, dry, no odor, no staining. | NFS-PDI-V15B-0.2-0.7 |
| 2 | | | dry | FILL | | fine to medium SAND, little ash, trace coal, (5YR 3/3) dark reddish brown, medium dense, dry, no odor, no staining. fine to medium SAND, some fine to medium gravel, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-V15B-2.0-2.5 |
| 3 | | | dry | FILL | | | NFS-PDI-V15B-4.0-4.5 |
| 4 | | | | | | | |
| 5 | 3.5 | 0.0 | moist | FILL |  | fine to medium SAND, some fine to medium gravel, trace silt, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining. | NFS-PDI-V15B-6.0-6.5 |
| 6 | | | | | | | NFS-PDI-V15B-8.0-8.5 |
| 7 | | | | | | | |
| 8 | | | | NR | | NO RECOVERY | |
| 9 | 4.5 | 0.0 | wet | FILL |  | fine SAND, little silt and cobbles, (5YR 4/4) reddish brown, dense, wet, no odor, no staining, water at 12.0 feet. | NFS-PDI-V15B-10.0-10.5 |
| 10 | | | | | | | NFS-PDI-V15B-12.0-12.5 |
| 11 | | | | | | | NFS-PDI-V15B-14.0-14.5 |
| 12 | | | | NR | | Refusal at 14.5 feet | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |

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 - chromate chemical production waste

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

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: sonic rig | Coordinates (NJSPNAD83) x: 611677.5 |
| Date Started Drilling: 2/7/2017 10:55:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683768.5 |
| Date Finished Drilling: 2/7/2017 2:35:00 PM | Core Size: 3.0 in | Boring Total Depth: 28 ft |
| Logged By: E. Acs | Project Manager: Scott Mikaelian | Depth to Water: 22.5 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 21.3 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 8 | 0.0 | dry | FILL | | fine SAND, trace silt and fill debris, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining. | |
| 2 | | | dry | FILL | | fine to coarse SAND, trace fine to coarse gravel, (5YR 2.5/1) black, medium dense, dry, no odor, no staining. | |
| 3 | | | dry | FILL | | fine to medium SAND, trace silt and fine to coarse gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | |
| 4 | 5 | 0.0 | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | 5 | 0.0 | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 5 | 0.0 | dry | FILL | | BOULDER, trace cobbles and medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining. | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 5 | 0.0 | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 5 | 0.0 | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 5 | 0.0 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | 5 | 0.0 | | | | | |
| 23 | | | moist | FILL | | SILT, trace fine sand and fine to medium gravel, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining, water at 22.5 feet. | NFS-PDI-V15BR-22.5-23.0 |
| 24 | | | moist | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, soft, moist, slight organic odor, no staining. Soils consistent with MM. | NFS-PDI-V15BR-23.0-23.5 |
| 25 | 5 | 0.0 | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | 5 | 0.0 | moist | OL | | organic SILT, (5Y 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 29 | | | | | | | |
| 30 | | | | | | | |

Notes:

bgs - below surface grade
MM - meadow mat

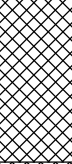



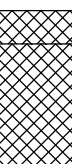
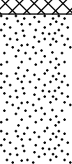
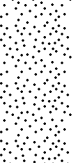
COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

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











| | | |
|----------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611663.271 |
| Date Started Drilling: 11/11/2016 8:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683673.419 |
| Date Finished Drilling: 11/11/2016 9:30:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 5 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 11.38 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 5 | 1.5 | dry | FILL |  | fine to coarse SAND, some fine to medium gravel, little fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | |
| 2 | | | | | | | |
| 3 | | | dry to moist | FILL | | fine to medium SAND, little ash, trace cinders, (7.5YR 3/3) dark brown, medium dense, dry to moist, slight MGP-like odor, no staining. | |
| 4 | 4 | 24.0 | | |  | | |
| 5 | | | wet | FILL | | CINDERS, (7.5YR 2.5/1) black, loose, wet, moderate MGP-like odor, no staining, sheen, water at 5.0 feet. | |
| 6 | | | | | | | |
| 7 | 5 | 2.0 | | |  | | NFS-PDI-W12BR-6.0-6.5 |
| 8 | | | | | | | |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | 5 | 2.0 | wet | FILL |  | CINDERS, (5Y 2.5/1) black, loose, wet, moderate MGP-like odor, no staining, sheen. | NFS-PDI-W12BR-8.0-8.5 |
| 11 | | | wet | FILL | | fine silty SAND, little fine gravel, concrete and fill debris, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. | |
| 12 | | | | | | | |
| 13 | 5 | 0.0 | wet | SP |  | fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | NFS-PDI-W12BR-12.0-12.5 |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 5 | 0.0 | | |  | | NFS-PDI-W12BR-14.0-14.5 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 1 | 0.0 | | |  | | NFS-PDI-W12BR-16.0-16.5 |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.










| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611676.4 |
| Date Started Drilling: 8/26/2016 9:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683699.8 |
| Date Finished Drilling: 8/26/2016 10:50:00 AM | Core Size: 3.0 in | Boring Total Depth: 15 ft |
| Logged By: Eric Stone | Project Manager: Scott Mikaelian | Depth to Water: 6.5 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 13.68 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 | | FILL |  | ASPHALT MILLINGS, some fine gravel, no odor, no staining. | NFS-PDI-W13B-0.2-0.7 |
| 2 | | | dry | FILL |  | fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-W13B-1.0-1.5 |
| 3 | | | | FILL |  | Concrete debris, no odor, no staining. | |
| 4 | | | dry to sl. moist | FILL |  | fine to medium SAND, trace coal, (5YR 4/3) reddish brown, medium dense, dry to slightly moist, no odor, no staining. | NFS-PDI-W13B-3.0-3.5 |
| 5 | 5 | 0.0 | slightly moist | FILL |  | fine to coarse SAND, some medium gravel, little fill debris, (7.5YR 3/3) dark brown, medium dense, slightly moist, no odor, no staining. | NFS-PDI-W13B-5.0-5.5 |
| 6 | | | | | | | |
| 7 | | | wet | FILL |  | fine to medium silty SAND, little fine gravel, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining, water at 6.5 feet. | NFS-PDI-W13B-7.0-7.5 |
| 8 | | | wet | FILL |  | Tar-like material, (5YR 2.5/1) black, medium stiff, wet, no staining, slight tar-like odor. | |
| 9 | 4.5 | 1.2 | | | | fine to medium silty SAND, some fine gravel, (5YR 3/3) dark reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-W13B-9.0-9.5 |
| 10 | | | wet | FILL |  | fine silty SAND, some fine gravel, trace ash, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. | |
| 11 | | | | | | | NFS-PDI-W13B-11.0-11.5 |
| 12 | | | 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. | NFS-PDI-W13B-12.0-12.5 |
| 13 | | | wet | SM |  | fine silty SAND, trace organic fibers, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | NFS-PDI-W13B-12.5-13.0 |
| 14 | | | | | | | |
| 15 | | | | 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611688.8 |
| Date Started Drilling: 8/29/2016 7:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683726.5 |
| Date Finished Drilling: 8/29/2016 9:05:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: KW | Project Manager: Scott Mikaelian | Depth to Water: 7 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 17.06 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 |  | fine to medium SAND, some silt and fine to medium gravel, trace fill debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining. | |
| 2 | | | dry to moist | FILL |  | silty SAND, little fine to medium gravel and fill debris, (5YR 4/3) reddish brown, loose, dry to moist, no odor, no staining. | |
| 3 | | | moist | FILL |  | sandy SILT, trace fine to medium gravel and fill debris, (5YR 4/4) reddish brown, loose, moist, no odor, no staining. | |
| 4 | | | | NR | | No Recovery | |
| 5 | 2.5 | 0.0 | moist to wet | FILL |  | SILT, some fine to coarse gravel, little fine sand, (5YR 4/4) reddish brown, medium dense, moist to wet, no odor, no staining, water at 7.0 feet. | |
| 6 | | | | NR | | No Recovery | |
| 7 | | | | | | | |
| 8 | 5 | 0.0 | | | | | |
| 9 | | | | | | | |
| 10 | | | wet | FILL |  | SILT, some fine to coarse gravel, little fine sand, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | NFS-PDI-W14B-14.0-14.5 |
| 15 | 3.5 | 0.0 | wet | FILL |  | SILT, some fine to coarse gravel, little fine sand, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. | |
| 16 | | | moist | OL |  | Organic SILT, 80% organic silt 20% organic fibers, (7.5YR 2.5/1) black, dense, moist, slight organic odor, no staining. Soils consistent with UNDorg. | NFS-PDI-W14B-15.5-16.0 |
| 17 | | | moist | ML |  | SILT, trace organics, (5YR 4/3) reddish brown, dense, moist, no odor, no staining. Soils consistent with UNDno. | NFS-PDI-W14B-16.0-16.5 |
| 18 | | | moist | SW |  | fine to coarse SAND, little fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno. | |
| 19 | | | | NR | | No Recovery | |
| 20 | | | | | | | |

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

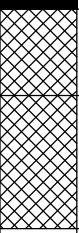
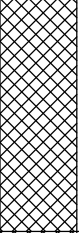
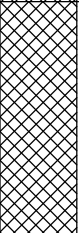
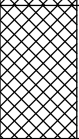
| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611702.3 |
| Date Started Drilling: 8/31/2016 8:45:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683752.7 |
| Date Finished Drilling: 8/31/2016 9:40:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: KW | Project Manager: Scott Mikaelian | Depth to Water: 7 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 20.20 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 | NFS-PDI-W15B-0.2-0.7 |
| | | | dry to moist | FILL | | ASPHALT MILLINGS, (5YR 2.5/1) black, loose, dry, no odor, no staining. | NFS-PDI-W15B-2.0-2.5 |
| | | | | FILL | | fine to medium SAND, little medium to coarse gravel, trace fill debris, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining. | NFS-PDI-W15B-4.0-4.5 |
| | | | | | | | |
| | | | | | | | |
| 6-10 | 3.5 | 0.0 | moist to wet | FILL | | fine to coarse SAND, some medium to coarse gravel, little fill debris, (5YR 4/4) reddish brown, dense, moist to wet, no odor, no staining, water at 7.0 feet. | NFS-PDI-W15B-6.0-6.5 |
| | | | | | | | NFS-PDI-W15B-8.0-8.5 |
| | | | | NR | | No Recovery | |
| | | | | | | | |
| 11-15 | 4.5 | 0.0 | wet | FILL | | fine to coarse SAND, some cobbles, little rock fragments, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-W15B-10.0-10.5 |
| | | | | | | | NFS-PDI-W15B-12.0-12.5 |
| | | | | | | | NFS-PDI-W15B-14.0-14.5 |
| | | | | NR | | No Recovery | |
| 16-20 | 5 | 0.0 | wet | FILL | | sandy SILT, trace rock fragments, (5YR 4/4) reddish brown, loose, wet, no odor, no staining. | NFS-PDI-W15B-16.0-16.5 |
| | | | | | | | NFS-PDI-W15B-18.0-18.5 |
| | | | | | | | |
| | | | | | | | |
| 21 | 1 | 0.0 | | | | | NFS-PDI-W15B-20.0-20.5 |

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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.











| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611711.2 |
| Date Started Drilling: 9/2/2016 9:45:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683770.7 |
| Date Finished Drilling: 9/2/2016 10:45:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 21.41 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 | dry | ASPHALT FILL |  | ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black, dry, no odor, no staining. | NFS-PDI-W16B-0.2-0.7 |
| | | | dry | FILL | | fine to medium SAND, some fine to medium gravel, little concrete, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-W16B-1.0-1.5 |
| | | | | NR | | NO RECOVERY | NFS-PDI-W16B-3.0-3.5 |
| | | | | | | | |
| 5-9 | 5 | 0.0 | dry | FILL |  | fine to medium SAND, some fine to coarse gravel and concrete, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | NFS-PDI-W16B-5.0-5.5 |
| | | | | | | | NFS-PDI-W16B-7.0-7.5 |
| | | | dry | FILL | | COBBLES, trace medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining. | NFS-PDI-W16B-8.0-8.5 |
| 10-15 | 5 | 0.0 | dry | FILL |  | COBBLES, trace medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining. | |
| | | | | | | | |
| 16-17 | 2 | 0.0 | dry | FILL |  | COBBLES, trace medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining. | |
| | | | | NR | | NO RECOVERY, Refusal at 17.0 feet. | |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Sonic | Coordinates (NJSPNAD83) x: 611712.4 |
| Date Started Drilling: 2/8/2017 7:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683769.1 |
| Date Finished Drilling: 2/8/2017 10:50:00 AM | Core Size: 3.0 in | Boring Total Depth: 23 ft |
| Logged By: E. Acs | Project Manager: Scott Mikaelian | Depth to Water: 19.5 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 21.4 ft NAVD88 |

| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|---------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 | 3 | 0.0 | | ASPHALT |  | ASPHALT | |
| 2 | | | dry | FILL |  | fine to coarse SAND, some fine to coarse gravel, (5YR 2.5/1) black, medium dense, dry, no odor, no staining. | |
| 3 | | | dry | FILL |  | BOULDER, (5Y 5/1) gray, dense, dry, no odor, no staining. | |
| 4 | | | | | | | |
| 5 | 5 | 0.0 | moist | FILL |  | fine to medium SAND, little silt, trace fine to medium gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. | |
| 6 | | | | | | | |
| 7 | | | dry | FILL |  | BOULDER, trace cobbles and medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining. | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 5 | 0.0 | | |  | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | 5 | 0.0 | | |  | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 5 | 0.0 | moist | FILL |  | SILT, some fine to medium gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining, water at 19.5 feet. | NFS-PDI-W16BR-19.5-20.0 |
| 21 | | | moist | PT |  | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (5YR 3/3) dark reddish brown, soft, moist, slight organic odor, no staining. Soils consistent with MM. | NFS-PDI-W16BR-20.0-20.5 |
| 22 | | | moist | OL |  | organic SILT, some fine sand, (7.5YR 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 23 | | | | | | | |

Notes:

bgs - below surface grade
MM - meadow mat

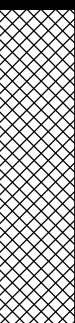
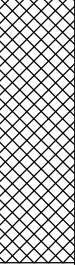
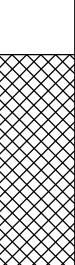
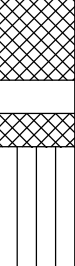
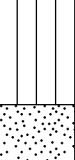
COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

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

| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611716.2 |
| Date Started Drilling: 8/29/2016 9:10:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683712.2 |
| Date Finished Drilling: 8/29/2016 11:00:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: KW | Project Manager: Scott Mikaelian | Depth to Water: 12 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 17.47 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 | ASPHALT FILL |  | Asphalt and gravel sub-base fine to medium silty SAND, little fill debris, (5YR 3/3) dark reddish brown, medium dense, dry to moist no odor no staining | NFS-PDI-X14B-0.2-0.7 |
| 2 | | | | | | | NFS-PDI-X14B-2.0-2.5 |
| 3 | | | | | | | NFS-PDI-X14B-4.0-4.5 |
| 4 | | | | | | | NFS-PDI-X14B-6.0-6.5 |
| 5 | 4 | 0.0 | moist | FILL |  | fine to medium silty SAND, some fine to coarse gravel, little fill debris, (5YR 3/3) dark reddish brown, medium dense, moist no odor no staining | NFS-PDI-X14B-6.0-6.5 |
| 6 | | | | | | | NFS-PDI-X14B-8.0-8.5 |
| 7 | | | | | | | NFS-PDI-X14B-10.0-10.5 |
| 8 | | | | | | | NFS-PDI-X14B-12.0-12.5 |
| 9 | 4.5 | 0.0 | moist | FILL |  | fine to medium silty SAND, some medium to coarse gravel, little fill debris, (7.5YR 3/3) dark brown, medium dense, moist to wet no odor no staining, water at 12.0 feet | NFS-PDI-X14B-10.0-10.5 |
| 10 | | | | | | | NFS-PDI-X14B-12.0-12.5 |
| 11 | | | | | | | NFS-PDI-X14B-14.0-14.5 |
| 12 | | | | | | | NFS-PDI-X14B-15.0-15.5 |
| 13 | 5 | 0.0 | moist | FILL |  | fine to medium silty SAND, some fine to coarse gravel, (5YR 4/4) reddish brown, dense, moist no odor no staining | NFS-PDI-X14B-15.0-15.5 |
| 14 | | | | | | | NFS-PDI-X14B-15.5-16.0 |
| 15 | | | | | | | NFS-PDI-X14B-16.0-16.5 |
| 16 | | | | | | | NFS-PDI-X14B-18.0-18.5 |
| 17 | 1 | 0.0 | moist | SP |  | fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) reddish brown, loose, moist no odor no staining. Soils consistent with UNDno. | NFS-PDI-X14B-15.0-15.5 |
| 18 | | | | | | | NFS-PDI-X14B-15.5-16.0 |
| 19 | | | | | | | NFS-PDI-X14B-16.0-16.5 |
| 20 | | | | | | | NFS-PDI-X14B-18.0-18.5 |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

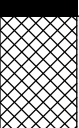
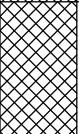
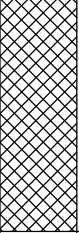
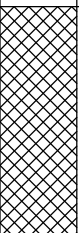
| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611729.2 |
| Date Started Drilling: 8/31/2016 11:40:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683739 |
| Date Finished Drilling: 9/8/2016 7:30:00 AM | Core Size: 3.0 in | Boring Total Depth: 21 ft |
| Logged By: KW | Project Manager: Scott Mikaelian | Depth to Water: 7.5 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 19.85 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 | dry | ASPHALT | | ASPHALT | NFS-PDI-X15B-0.2-0.7 |
| | | | dry to moist | FILL | | fine to coarse SAND, little fine gravel, trace fill debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining. | NFS-PDI-X15B-2.0-2.5 |
| | | | | FILL | | fine to medium silty SAND, some medium to coarse gravel with rock fragments, trace fill debris, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining. | NFS-PDI-X15B-4.0-4.5 |
| | | | | NR | | No Recovery | |
| 5-9 | 4 | 0.0 | moist to wet | FILL | | fine to coarse SAND, little fine to coarse gravel, trace silt and fill debris, (5YR 4/4) reddish brown, medium dense, moist to wet, no odor, no staining, water at 7.5 feet. | NFS-PDI-X15B-6.0-6.5 |
| | | | | NR | | No Recovery | NFS-PDI-X15B-8.0-8.5 |
| | | | | | | | |
| | | | | | | | |
| 10-14 | 4.5 | 0.0 | wet | FILL | | fine to coarse SAND, some rock fragments, trace fill debris, (7.5YR 3/3) dark brown, loose, wet, no odor, no staining. | NFS-PDI-X15B-10.0-10.5 |
| | | | | FILL | | fine to medium silty SAND, little rock fragments trace fill debris, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. | NFS-PDI-X15B-12.0-12.5 |
| | | | | NR | | No Recovery | NFS-PDI-X15B-14.0-14.5 |
| | | | | | | | |
| 15-19 | 5 | 0.0 | wet | FILL | | fine to coarse silty SAND, little rock fragments, trace fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-X15B-16.0-16.5 |
| | | | | | | | NFS-PDI-X15B-17.5-18.0 |
| | | | | | | | NFS-PDI-X15B-18.0-18.5 |
| | | | moist | ML | | SILT, trace organics, (7.5YR 5/3) brown, dense, moist, no odor, no staining. Soils consistent with UNDno. | |
| 20-21 | 1 | 0.0 | | | | | NFS-PDI-X15B-20.0-20.5 |

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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.





| | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611739.8 |
| Date Started Drilling: 9/2/2016 7:30:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683760.6 |
| Date Finished Drilling: 9/2/2016 9:40:00 AM | Core Size: 3.0 in | Boring Total Depth: 15 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: 8.5 |
| Physical Location: Actual - Forrest St Properties - PDI | | Surface Elevation: 21.12 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 | dry | ASPHALT FILL |  | ASPHALT fine to medium SAND, little asphalt and fine to medium gravel, (7.5YR 2.5/3) very dark brown, medium dense, dry, no odor, no staining. | |
| 2 | | | dry | FILL |  | fine to medium SAND, little fill debris, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining. | |
| 3 | | | | NR | | NO RECOVERY | |
| 4 | | | | | | | |
| 5 | 3.5 | 0.0 | dry to wet | FILL |  | fine to medium SAND, some fine to medium gravel, trace silt and coal, (5YR 4/4) reddish brown, medium dense, dry to wet, no odor, no staining, water at 8.5 feet. | NFS-PDI-X16B-6.0-6.5 |
| 6 | | | | NR | | NO RECOVERY | NFS-PDI-X16B-8.0-8.5 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 3.5 | 0.0 | wet | FILL |  | fine to medium SAND, some fine to coarse gravel and cobbles, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. | NFS-PDI-X16B-10.0-10.5 |
| 10 | | | | NR | | NO RECOVERY, Refusal at 13.5 feet | NFS-PDI-X16B-12.0-12.5 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

| | | |
|-----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Sonic | Coordinates (NJSPNAD83) x: 611738.191 |
| Date Started Drilling: 11/15/2016 10:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 683758.24 |
| Date Finished Drilling: 11/15/2016 1:40:00 PM | Core Size: 3.0 in | Boring Total Depth: 23 ft |
| Logged By: Eric Acs | Project Manager: Scott Mikaelian | Depth to Water: 18.5 |
| Physical Location: Actual - Forrest St Properties - Supplemental PDI | | Surface Elevation: 21.117 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 | 8 | | moist | FILL |  | fine to medium SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | NFS-PDI-X16BR-0.5-1.0 |
| 2 | | | | | | | NFS-PDI-X16BR-2.0-2.5 |
| 3 | | | moist | FILL | | fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | NFS-PDI-X16BR-4.0-4.5 |
| 4 | | | | | | | |
| 5 | | | | FILL | | BOULDER, (5YR 6/1) gray, no staining. | |
| 6 | | | moist | FILL | | fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. | |
| 7 | | | | | | | |
| 8 | 5 | 0.0 | | FILL |  | BOULDER, (5YR 4/1) dark gray, no staining. | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 5 | 0.0 | | FILL |  | BOULDER, (5YR 6/1) gray, no staining. | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | 5 | 0.0 | moist to wet | ML |  | SILT, (7.5YR 4/2) brown, firm, moist to wet, no odor, no staining, water at 18.5 feet. Soils consistent with UNDno. | NFS-PDI-X16BR-18.0-18.5 |
| 19 | | | | | | | NFS-PDI-X16BR-18.5-19.0 |
| 20 | | | | | | | NFS-PDI-X16BR-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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.



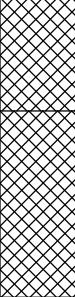
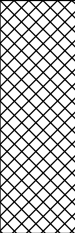
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Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/13/16 18:55


| | | |
|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611605.6 |
| Date Started Drilling: 9/20/2016 12:00:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 683804.9 |
| Date Finished Drilling: 9/20/2016 1:30:00 PM | Core Size: 3.0 in | Boring Total Depth: 10 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Actual - Forrest St Properties - RI | | Surface Elevation: 17.67 ft NAVD88 |

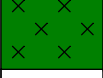
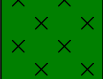

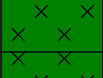

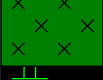
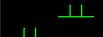
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|------------------|-----------|------------------|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1 | 4.5 | 0.0 | | FILL |  | 3" Trap Rock and DGA above liner | |
| 2 | | | slightly moist | FILL | | fine to medium SAND, some fine to medium gravel, trace coal, (7.5YR 6/3) light brown, medium dense, slightly moist, no odor, no staining. | PSEG-SB37B-1.7-2.2 |
| 3 | | | | | | | |
| 4 | | | | | | | PSEG-SB37B-3.7-4.2 |
| 5 | 3.5 | 0.0 | | NR |  | NO RECOVERY | |
| 6 | | | dry | FILL | | fine silty SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. | PSEG-SB37B-5.7-6.2 |
| 7 | | | | | | | |
| 8 | | | | | | | PSEG-SB37B-7.7-8.2 |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | | | | | | | |

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) No CCPW (COPR or GGM) present in any interval of this boring.

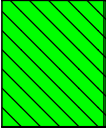
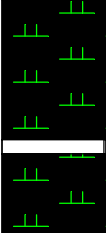
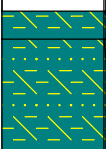
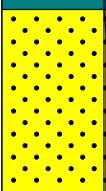
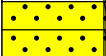
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|  | | Client: PPG Industries | | BORING ID: PSEG-SB46 | | |
|---------------------------------------------------------------------------------|-----------|--------------------------------------------|--|--------------------------------|-----------|-------------------|
| | | Site: Site 114 | | | | |
| Start Date: 11/30/2006 | | Project: Site Investigation | | Page: 1 of 3 | | |
| | | Coordinates: X-611661.117 Y-683681.939 | | Depth of Boring: 26.00 | | |
| End Date: 11/30/2006 | | Elevation: | | Geologist: M. Merdinger | | |
| | | Drill Subcontractor: Advanced Drilling Inc | | Driller: | | |
| Depth (ft) | Lithology | Description | | PID | Sample ID | Sample Parameters |


| | | | | | |
|---|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------|--------------------------|
| 0 | | | | | |
| 2 |  | FILL: Dark Yellowish Brown (10YR 3/4) SILT and FILL material (stone, brick, concrete), trace fine Gravel, ~1% COPR. No odor. NR: No Recovery | N/A | PSEG-SB46A (1.5-2.0) | MS/MSD, Cr+6, TAL Metals |
| 4 |  | FILL: Very Dark Brown (10YR 2/2) SILTY SAND, some fine to medium Gravel, wet. No odor. | 0.0 ppm | PSEG-SB46B (4.0-5.0) | Cr+6, TAL Metals |
| |  | FILL: Very Dark Brown (10YR 2/2) and Dark Yellowish Brown (10YR 4/4) SILT, little Clay, trace fine to medium Gravel, wet. No odor. | | PSEG-SB46BD (4.0-5.0) | |
| 6 |  | NR: No Recovery FILL: Very Dark Brown (10YR 2/2) SAND, little Silt and fine Gravel, wet. No odor. | 0.0 ppm | | |
| |  | FILL: COAL. | | | |
| | | NR: No Recovery | | | |
| 8 |  | FILL: COAL and COAL TAR, moist. Napthalene odor. | | | |
| |  | PEAT: PEAT covered in Coal Tar, moist. Napthalene odor. | N/A | PSEG-SB46C (8.5-9.0) | Cr+6, TAL Metals |

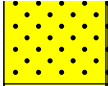

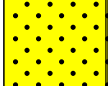
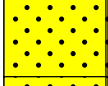

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

|  | | Client: PPG Industries | | BORING ID: PSEG-SB46 | | |
|---------------------------------------------------------------------------------|-----------|--------------------------------------------|--|--------------------------------|-----------|-------------------|
| | | Site: Site 114 | | | | |
| Start Date: 11/30/2006 | | Project: Site Investigation | | Page: 2 of 3 | | |
| | | Coordinates: X-611661.117 Y-683681.939 | | Depth of Boring: 26.00 | | |
| End Date: 11/30/2006 | | Elevation: | | Geologist: M. Merdinger | | |
| | | Drill Subcontractor: Advanced Drilling Inc | | Driller: | | |
| Depth (ft) | Lithology | Description | | PID | Sample ID | Sample Parameters |

| | | | | | |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----|---------------------------|------------------|
| 10 |  | NR: No Recovery | N/A | PSEG-SB46D (10.0-10.5) | Cr+6, TAL Metals |
| | | CLAY: Brown (7.5YR 4/5) CLAY, moist. Napthalene odor. | | | |
| 12 |  | PEAT: PEAT, moist. Napthalene odor. | N/A | PSEG-SB46E (11.0-11.5) | Cr+6, TAL Metals |
| | | NR: No Recovery | | | |
| | | PEAT: PEAT, moist. Napthalene odor. | | | |
| | | CLAY AND SAND: Reddish Brown (5YR 5/3) very fine SANDY CLAY and ORGANICS, trace Silt, moist. No odor. | | | |
| 14 |  | NR: No Recovery | N/A | PSEG-SB46F (14.5-15.0) | Cr+6, TAL Metals |
| | | CLAY AND SAND: Reddish Brown (5YR 5/3) very fine SANDY CLAY and ORGANICS, trace Silt, moist. No odor. | | | |
| | | CLAY AND SAND: Reddish Gray (5YR 5/2) very fine SANDY CLAY, moist. No odor. | | | |
| | | GRAVEL: Gray ROCKS, trace Weak Red (10R 4/3) Shale. | | | |
| 16 |  | NR: No Recovery | N/A | PSEG-SB46G (16.0-16.5) | Cr+6, TAL Metals |
| | | CLAY AND SAND: Reddish Gray (5YR 5/2) very fine SANDY CLAY, moist. | | | |
| | | SAND: Weak Red (10R 4/4) SAND, little fine to coarse Gravel and Silt, trace Clay, moist. No odor. | | | |
| | | NR: No Recovery | | | |
| 18 |  | NR: No Recovery | N/A | PSEG-SB46H (18.0-18.5) | Cr+6, TAL Metals |
| | | NR: No Recovery | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

|  | | Client: PPG Industries | | BORING ID: PSEG-SB46 | | |
|---------------------------------------------------------------------------------|-----------|--------------------------------------------|--|--------------------------------|-----------|-------------------|
| | | Site: Site 114 | | | | |
| Start Date: 11/30/2006 | | Project: Site Investigation | | Page: 3 of 3 | | |
| | | Coordinates: X-611661.117 Y-683681.939 | | Depth of Boring: 26.00 | | |
| End Date: 11/30/2006 | | Elevation: | | Geologist: M. Merdinger | | |
| | | Drill Subcontractor: Advanced Drilling Inc | | Driller: | | |
| Depth (ft) | Lithology | Description | | PID | Sample ID | Sample Parameters |

| | | | | | |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------|--------------------------|
| 20 |  | SAND: Weak Red (10R 4/4) SAND, little fine to coarse Gravel and Silt, trace Clay, moist. No odor. | N/A | PSEG-SB46G (18.5-19.0) | MS/MSD, Cr+6, TAL Metals |
| | | SAND: Weak Red (10R 4/4) medium to coarse SAND, and medium to coarse Gravel, little Silt, wet. No odor. | | | |
| 22 |  | NR: No Recovery | N/A | | |
| | | SAND: Weak Red (10R 4/4) fine to coarse SAND, trace Silt, wet. No odor. | | | |
| 24 |  | SAND: Weak Red (10R 4/4) very fine SAND, trace Silt, wet, MGP at 22.8 ft. | N/A | PSEG-SB46H (22.0-23.0) PSEG-SB46HD (22.0-23.0) | Cr+6, TAL Metals |
| | | NR: No Recovery | | | |
| 26 |  | SAND: Weak Red (10R 4/4) coarse SAND, wet. | N/A | | |
| | | SAND: Weak Red (10R 4/4) coarse SAND, wet. | | | |
| |  | SILT: Weak Red (10R 4/4) coarse SAND, wet. | N/A | | |
| | | NR: No Recovery | | | |
| | | NULL: End of Boring at 26 ft. | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.