Remedial Action Report – Phase 3B South and Portions of Site 133 East and Halladay Street South (AOC P3B-1A, AOC 133E-1B, AOC HSS-1B, and AOC 137-1B) – Soil, Final Garfield Avenue Group PPG, Jersey City, New Jersey

Appendix G

Boring Logs

Boring logs for the remaining sample locations collected via soil core are included in this appendix. Logs were not generated for grab samples collected during excavation activities, typically designated by "PB", "EX", or "SW" in the Location ID.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-D32A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | - |
|--|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610551.3 |
| Date Started Drilling: 5/28/2014 8:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682754.1 |
| Date Finished Drilling: 5/28/2014 8:55:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: 10 West | | Elevation: 15.1 ft NAVD88 |

| Da | | | | | | | |
|---------------------------------|---------------------|--------------|-----------------------------|-----------------|----------------|---|--------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| - 1 1 -2 | 5 | 0.0 | dry | ASPHALT FILL | | ASPHALT fine to medium SAND, some medium to coarse gravel, little brick, trace coal, (7.5YR 3/4) dark brown, loose, dry, no odor, no staining. | 10W-D32A-0.5-1.0 |
| -3- -4- | | | | | | | 10W-D32A-2.5-3.0 |
| -5— - -6— | | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little medium gravel, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining. | 10W-D32A-4.5-5.0 |
| - | | 0.0 | dry | FILL | | CINDERS, some ash, little fine to medium sand, (7.5YR 4/1) | 10W-D32A-6.5-7.0 |
| -7 | _E | | to | | | dark gray, loose, dry to moist, no odor, no staining. | 10W-D32A-7.0-7.5 |
| -8- - | 5 | 0.0 | moist sl. moist to | FILL | | fine to medium silty SAND, (7.5YR 3/2) dark brown, loose, slightly moist to moist, no odor, no staining, water table encountered at 7.5 ft bgs. | 10W-D32A-8.5-9.0 |
| -9- | | 0.0 | moist moist | FILL | | CINDERS, and ash, little coal, little fine to medium gravel, | 1011 202/1010 010 |
| - | | 0.0 | moisi | ''LL | | (7.5YR 3/1) very dark gray, loose, moist, no odor, no | 10W-D32A-9.5-10.0 |
| -10 - -11 | | 0.0 | wet | FILL | | staining. fine to medium SAND, some cinders, trace debris, (7.5YR 4/3) brown, loose, wet, no odor, no staining. | 10W-D32A-10.8-11.3 |
| -12 -13 -13 -14 -14 | . 5 | 0.0 | dry | SM | | UNDno fine to medium silty SAND, (7.5YR 6/3) light brown, loose, dry, no odor, no staining. Soils consistent with UNDno. | 10W-D32A-11.3-11.8 |
| -15 - -16 | | 0.0 | dry | OL | | UNDorg SILT, little organic fibers, low plasticity, soft, dry, no odor, no staining. Soils consistent with UNDorg. | |
| | 5 | 0.0 | moist | SM | | fine to medium silty SAND, little medium gravel, (7.5YR 5/3) brown, loose, moist, no odor, no staining. Soils consistent with UNDno. | |
| -20 | | | | | | | |
| | ' | | | | | | |



Boring ID: 10W-D33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS Drilling Method: Geoprobe Project Number: 60240739 Coordinates (NJSPNAD83) x: 610533.5 Date Started Drilling: 5/23/2014 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682718.0 Date Finished Drilling: 5/23/2014 12:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: ES Project Manager: Scott Mikaelian Physical Location: 10 West Elevation: 15.6 ft NAVD88

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------------|---------------------|--------------|-----------------------------|----------|----------------|--|--------------------|
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1 -2 | _ | 0.0 | dry to sl. moist | FILL | | fine to medium SAND, some silty sand, little cinders, ash, trace coarse gravel, (5YR 4/3) reddish brown, dense, dry to slightly moist, no odor, no staining. | 10W-D33A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 10W-D33A-2.5-3.0 |
| -5— - -6— | | 0.0 | sl. moist to moist | FILL | | fine to medium silty SAND, with cinders, ash, (7.5YR 3/2) dark brown, medium dense, slightly moist to moist, no odor, no staining. | 10W-D33A-4.5-5.0 |
| 7- | 4 | | moist | | | | 10W-D33A-6.5-7.0 |
| 8- | | 0.0 | wet | FILL | | CINDERS, and ash, (10YR 3/1) very dark gray, loose, wet, no odor, no staining, water table at 8.0 ft bgs. | 10W-D33A-7.5-8.0 |
| -9 | | | | NR | | NO RECOVERY | 10W-D33A-8.5-9.0 |
| 10 | | 0.0 | wet | FILL | | CINDERS, and ash, with silty sand, (10YR 3/1) very dark | - |
| 11 | | 0.0 | wet | FILL | | gray, loose, wet, no odor, no staining. fine to medium silty SAND, little cinders, ash, (7.5YR 3/4) dark brown, medium dense, wet, no odor, no staining. | 10W-D33A-10.5-11.0 |
| 12— | 5 | | | | | | 10W-D33A-12.0-12.5 |
| 13— — 14— | | 0.0 | wet to dry | SM | | UNDno fine to medium silty SAND, (7.5YR 4/2) brown, medium dense to medium stiff, wet to dry, no odor, no staining. Soils consistent with UNDno. | 10W-D33A-12.5-13.0 |
| 15 — 16 — 17 — | | 0.0 | wet | SM | | UNDno sandy SILT, (10YR 5/2) grayish brown, soft to medium dense, wet, no odor, no staining. Soils consistent with UNDno. | |
| - -18 - - | 5 | 0.0 | | | | | _ |
| 19 — — 20 — | | 0.0 | moist | SM | | UNDno fine to coarse silty SAND, (5YR 4/3) reddish brown, dense, moist, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | | |



| Boring | ID: | 10W | -D39 | Α |
|---------------|-----|-----|------|---|
|---------------|-----|-----|------|---|

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610462.1 |
| Date Started Drilling: 5/29/2014 10:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682573.6 |
| Date Finished Drilling: 5/29/2014 11:50:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: 10 West | | Elevation: 18.2 ft NAVD88 |
| | | (Note bgs = below ground surface) |

|) anth | | | | | 1 1 | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | | | | | | | | | | | | | | | |
| - | | 0.0 | | CONCRETE | | CONCRETE | | | | | | | | | | | | | | | | | | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little fine gravel, trace coal, (7.5YR 4/2) brown, loose, dry, no odor, no staining. | 10W-D39A-1.0-1.5 | | | | | | | | | | | | | | | | | |
| -3- | | 0.0 | dry | FILL | | CINDERS, little wood fragments, trace debris, (7.5YR 3/1) | 10W-D39A-3.0-3.5 | | | | | | | | | | | | | | | | | |
| -4 | | 0.0 | dry | FILL | | very dark gray, loose, dry, no odor, no staining. fine to medium SAND, little medium gravel, little ash, (5YR | 10W-D39A-3.5-4.0 | | | | | | | | | | | | | | | | | |
| -5- | | | | | | 4/3) reddish brown, loose, dry, no odor, no staining. | | | | | | | | | | | | | | | | | | |
| -6 | | 0.0 | dry | FILL | | fine to medium SAND, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 10W-D39A-5.0-5.5 | | | | | | | | | | | | | | | | | |
| -7 - -8 | 5 | | | | | | 10W-D39A-7.0-7.5 | | | | | | | | | | | | | | | | | |
| 9- | | | | | | | | | | | | | | | | | | | | | | | | 10W-D39A-9.0-9.5 |
| 10 | | 0.0 | wet | FILL | | fine to medium silty SAND, trace fill material, (7.5YR 4/3) | 10W-D39A-9.5-10.0 | | | | | | | | | | | | | | | | | |
| 11— | | 0.0 | | | | brown, loose, wet, no odor, no staining, water table encountered at 10.0 ft bgs. | | | | | | | | | | | | | | | | | | |
| 12 | 5 | | | | | | 10W-D39A-11.0-11.£ | | | | | | | | | | | | | | | | | |
| 14— | | | | | | | 10W-D39A-13.0-13.5 | | | | | | | | | | | | | | | | | |
| 15 | | 0.0 | wet | SM | | UNDno fine silty SAND, (5YR 4/3) reddish brown, loose, | 10W-D39A-14.5-15.0 10W-D39A-15.0-15.5 | | | | | | | | | | | | | | | | | |
| 16— 17— 18— 19— | 5 | 0.0 | wet | Sivi | | wet, no odor, no staining. Soils consistent with UNDno. | 1000-1000-1000 | | | | | | | | | | | | | | | | | |
| | nts: 1) 3 atte | | | | | | | | | | | | | | | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-F33A

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610587.2Date Started Drilling:5/23/2014 12:05:00 PMRig Type:Coordinates (NJSPNAD83) y:682690.5

 Date Finished Drilling:
 5/23/2014 1:10:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.7 ft NAVD88

| nysical Locat | OII. 10 | VVESI | | | Elevation: 15. | |
|----------------------|----------------|---------------------|----------|----------------|---|---|
| epth ange bgs) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | (Note bgs = below ground surface) Sample ID |
| | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| 1— 2— 5 | 0.0 | dry | FILL | | fine to medium SAND, with cinders, ash, little fine to coarse gravel, (10YR 3/2) very dark grayish brown, medium dense, dry, no odor, no staining. | 10W-F33A-0.5-1.0 |
| 3— 4— | 0.0 | moist | FILL | | CINDERS, and ash, trace coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining. | 10W-F33A-2.5-3.0 |
| 5— | 0.0 | moist | FILL | | CINDERS and ask with fine to modium silty sand moist to | 10W-F33A-4.5-5.0 |
| 5— | 0.0 | to wet | FILL | | CINDERS, and ash, with fine to medium silty sand, moist to wet, slight hydrocarbon odor, no staining, water table at 6.0 ft bgs. | 10W-F33A-5.5-6.0 |
| 5 5 | | | | | | 10W-F33A-6.5-7.0 |
| 9 | | | | | | 10W-F33A-8.5-9.0 |
| 1— 2— | 0.0 | wet | FILL | | ASH, with cinders, some fine to coarse gravel, trace glass, (10YR 6/1) gray, loose, wet, no odor, no staining. | 10W-F33A-10.5-11.0 |
| 5 3— 4— | | | | | | 10W-F33A-12.5-13.0 |
| 5 | 0.0 | wet | FILL | | fine to madium silty CAND little to trace fine to medium | 10W-F33A-14.5-15.0 |
| + | | wet | | | fine to medium silty SAND, little to trace fine to medium gravel, trace debris, (7.5YR 3/2) dark brown, medium dense | |
| 6 | 0.0 | wet to moist | OL | | wet, no odor, no staining. UNDorg fine to medium sandy SILT, with organics, (7.5YR 4/2) brown, soft to medium stiff, wet to moist, moderate organic odor, no staining. Soils consistent with UNDorg. | _/ 10W-F33A-15.8-16.3 |
| | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any ir | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/27/2014 12:20:00 PM

Boring ID: 10W-F38A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610545.5 Rig Type: Coordinates (NJSPNAD83) y: 682565.0

Date Finished Drilling: 5/27/2014 1:45:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: ES Project Manager: Scott Mikaelian

Physical Location: 10 West Elevation: 17.8 ft NAVD88

| Depth Lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|----------|------------------|--|--|
| | | 0.0 | | CONCRETE | 0 0 0 0 | CONCRETE | |
| -1 -2 | 5 | 0.0 | dry to wet | FILL | | fine to medium silty SAND, some cinders, little concrete, trace ash, (5YR 4/3) reddish brown, medium dense, dry to wet, no odor, no staining, water table at 5.0 ft bgs. | 10W-F38A-1.0-1.5 |
| -3 | | | | | | | 10W-F38A-3.0-3.5 |
| \dashv | | | | | | | 10W-F38A-4.5-5.0 |
| -6 | | 0.0 | wet | FILL | | CINDERS, and ash, little fine to medium gravel, (10YR 5/1) gray, loose, wet, no odor, no staining. | 10W-F38A-5.0-5.5 |
| -7— -8— | 5 | | | | | | 10W-F38A-7.0-7.5 |
| 9 | | 0.0 | wet | FILL | | fine to medium silty SAND, little to trace debris, trace brick, | 10W-F38A-9.0-9.5 |
| 11— - 12— | 5 | | Wot | | | some fine to medium gravel, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining. | 10W-F38A-11.0-11.5 |
| 13 <u> </u> | | | | | | | 10W-F38A-13.0-13.5 10W-F38A-14.5-15.0 |
| 15 — 16 — 17— | | 0.0 | wet | SM | ×××× | UNDno fine to medium silty SAND, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. | 10W-F38A-15.0-15.5 |
| - 18 - 19 | 5 | | | | <u>~ ~ ~</u> | | |
| 20 | | 0.0 | dry | PT | 7 77 7 7 77 7 | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | |
| | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/29/2014 12:30:00 PM

Boring ID: 10W-F39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610515.7 Rig Type: Coordinates (NJSPNAD83) y: 682545.6 Core Size: 3.0 in Boring Total Depth: 20 ft

Date Finished Drilling: 5/29/2014 1:20:00 PM Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

Physical Location: 10 West Elevation: 17.8 ft NAVD88

| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------------|---------------------|------------------|---------------------|----------|---|--|--------------------|
| | | 0.0 | | CONCRETE | 0 4 4 0 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | ASH, and cinders, some fine to medium sand, little crushed concrete, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining. | 10W-F39A-1.0-1.5 |
| -3 -4 - | | | | | | | 10W-F39A-3.0-3.5 |
| -5— — -6— | | 0.0 | dry | FILL | | CINDERS, some fine to medium gravel, little debris, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 10W-F39A-5.0-5.5 |
| -7— -8— - | 5 | 10W-F39A-7.0-7.5 | | | | | |
| 9- | | | | | | | 10W-F39A-9.0-9.5 |
| -10 - | | 0.0 | wet | FILL | fine silty SAND, some cinders, little fill material, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, water table | 10W-F39A-9.5-10.0 | |
| 11 | | | | | | encountered at 10.0 ft bgs. | 10W-F39A-11.0-11.5 |
| 12 | | | | | | | 10W-F39A-11.7-12.2 |
| 13 | 5 | 0.0 | wet | SM | | UNDno fine to medium silty SAND, (7.5YR 4/2) brown, loose, wet, no odor, no staining. Soils consistent with UNDno. | 10W-F39A-12.2-12.7 |
| 15— 16— 17— 18— 19— | 5 | 0.0 | wet | SM | | UNDno fine to medium silty SAND, (7.5YR 4/3) brown, loose, wet, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | | |

Date Started Drilling: 5/9/2014 12:15:00 PM

Project Name: PPG Garfield Ave

Project Number: 60240739

Boring ID: 10W-G32A

Page: 1

Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610648.4 Rig Type: Coordinates (NJSPNAD83) y: 682704.7

Date Finished Drilling: 5/9/2014 1:25:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

Physical Location: 10 West

| | | | | | | (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 | | 0.0 | moist to wet | ASPHALT FILL | | ASPHALT CINDERS, little fine to medium sand, little debris, (7.5YR 3/3) dark brown, loose, moist to wet, no odor, no staining. | 10W-G32A-0.5-1.0 |
| -3- | 5 | | | | | | 10W-G32A-2.5-3.0 |
| -4 | | 0.0 | moist | FILL | | fine to medium SAND, trace fine gravel, (10YR 5/2) grayish brown, loose, moist, no odor, no staining. | |
| -5- | | | | | | | 10W-G32A-4.5-5.0 |
| _ _6 | 5 | 0.0 | moist to wet | FILL | | CINDERS, some medium to coarse gravel, trace wooden fragments, trace ceramics, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining, water table encountered at 6.0 ft | 10W-G32A-5.5-6.0 |
| -7 -8 | | | | | | bgs. | 10W-G32A-6.5-7.0 |
| _ -9 | | | | | | | 10W-G32A-8.5-9.0 |
| -10 | | 0.0 | wet | FILL | | GGM, fine to medium SAND, some cinders, little fine to | 10W-G32A-10.0-10.5 |
| _ _11 | | 0.0 | wet | FILL | | medium gravel, trace debris, (7.5YR 3/1) very dark gray, loose, wet, no odor, green staining. | 10W-G32A-10.5-11.0 |
| -12 | 5 | | | | | | |
| -13 - -14 | 3 | 0.0 | wet | FILL | | CINDERS, some fine to medium gravel, little medium sand, trace debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | 10W-G32A-12.5-13.0 |
| -15 | | | | ND | | NO DECOMEDIA | 10W-G32A-14.5-15.0 |
| 4 | | | | NR | | NO RECOVERY | |
| -16 | | 0.0 | dry | FILL | | SILT, some organics, trace debris, (7.5YR 4/2) brown, low | |
| | 4 | | to moist | | | plasticity, soft, dry to moist, no odor, no staining. Material is consistent with disturbed native material. | 10W-G32A-16.5-17.0 |
| -18 - | | 0.0 | dry to | PT | \(\frac{1}{21}\), \(\frac{1}\), \(\frac{1}{21}\), \(\frac{1}\), \(\frac{1}2\), \(\fr | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry to | 10W-G32A-17.5-18.0 |
| -19 - - | | | sl. moist | | <u> </u> | slightly moist, strong organic odor. Soils consistent with MM. | |
| 20 | | | | | | | |
| Ommor | nte: 1) 3 atte | mnte w | ere made to | ohtain heet re | covery 2) I II | ND/MM confirmed to be 1 ft thick. | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-H34A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610636.3

 Date Started Drilling:
 5/30/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682656.1

 Date Finished Drilling:
 5/30/2014 1:00:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Physical Location:
 10 West

 Elevation:
 15.5 ft NAVD88

Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 10W-H34A-0.6-1.1 **FILL** dry fine to medium SAND, with cinders, some medium to coarse gravel, little ash, trace glass, (10YR 4/2) dark grayish brown, medium dense to loose, dry, no odor, no staining. 5 10W-H34A-2.5-3.0 10W-H34A-4.5-5.0 0.0 moist **FILL** CINDERS, and ash, little debris, loose, moist to wet, no 10W-H34A-5.4-5.9 odor, no staining, water table at 5.9 ft bgs. to wet 10W-H34A-6.5-7.0 10W-H34A-8.5-9.0 NR NO RECOVERY 0.0 wet **FILL** ASH, with cinders, some silty sand, (10YR 4/1) dark gray, loose, wet, no odor, no staining. 10W-H34A-10.5-11.0 5 10W-H34A-12.5-13.0 -13 0.0 **FILL** fine to medium silty SAND, some to little cinders, some to wet little ash, little debris, (10YR 2/2) very dark brown, wet, no 10W-H34A-14.5-15.0 odor, no staining. 0.0 **FILL** wet fine to medium silty SAND, with cinders, ash, (10YR 4/1) 10W-H34A-15.5-16.0 dark gray, medium dense to soft, wet, no odor, no staining. 0.0 wet **FILL** -16 fine to medium silty SAND, little organics, little to trace debris, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. 10W-H34A-16.7-17.2 5 0.0 UNDorg SILT, 60% organic silt, 40% organic fibers, (10YR 10W-H34A-17.2-17.7 OL dry 3/3) dark brown, low plasticity, medium stiff, dry, moderate -18 organic odor, no staining. Soils consistent with UNDorg. 19 20 PPG LOGS.GDT - 8/11/14 16:37

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

PPG LOGS.GDT - 8/11/14 16:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/27/2014 10:00:00 AM

Boring ID: 10W-H35A

Coordinates (NJSPNAD83) y: 682608.1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610610.9

 Date Finished Drilling:
 5/27/2014 12:20:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Rig Type:

Physical Location: 10 West Elevation: 15.5 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 10W-H35A-0.5-1.0 0.0 dry FILL fine to medium silty SAND, some cinders, little to trace ash, trace coal, trace glass, (7.5YR 3/2) dark brown, dense to medium dense, dry, no odor, no staining. 5 10W-H35A-2.5-3.0 10W-H35A-4.5-5.0 0.0 sl. **FILL** ASH, and cinders, little coal, trace debris, (10YR 4/1) dark moist gray, loose, slightly moist to wet, no odor, no staining, water to table at 6.5 ft bgs. 10W-H35A-6.0-6.5 wet 10W-H35A-6.5-7.0 5 10W-H35A-8.5-9.0 0.0 **FILL** fine to medium silty SAND, with ash, little to trace cinders, (10YR 5/2) grayish brown, medium dense, wet, no odor, no 10W-H35A-10.5-11.0 staining. 5 10W-H35A-12.5-13.0 -13 0.0 wet **FILL** ASH, with fine to medium silty sand, (10YR 6/1) gray, loose, wet, no odor, no staining. 10W-H35A-14.5-15.0 0.0 fine to medium silty SAND, little organics, little to trace ash, **FILL** moist trace debris, (7.5YR 3/2) dark brown, soft to medium dense, 10W-H35A-15.5-16.0 moist, no odor, no staining. -16 10W-H35A-16.0-16.5 0.0 SM UNDno fine to medium SAND, little silt, little coarse gravel. wet (5YR 4/3) reddish brown, medium dense, wet, no odor, no 0.0 dry OL staining. Soils consistent with UNDno. 5 UNDorg SILT, with organics, (7.5YR 4/2) brown, soft to medium dense, dry, slight organic odor, no staining. Soils 11, 11, 0.0 dry PT -18 consistent with UNDorg. 1, 11, PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, very stiff, 19 0.0 OL dry dry, strong organic odor, no staining. Soils consistent with UNDorg SILT, 60% organic silt, 40% organic fibers, (7.5YR 20 2.5/2) very dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.

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

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-H37A

| _ |
|---|
| |
| 7 |
| |
| |
| |
| |
| 1 |

| 20046 | | | | | | | |
|--------------------------|---------------------|--------------|------------------------------------|----------|----------------|---|--------------------|
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1 -2 | | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little brick, little crushed concrete, trace coal, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining. | 10W-H37A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 10W-H37A-2.5-3.0 |
| -5 | | 0.0 | dry | FILL | | CINDERS, some fine to medium sand, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 10W-H37A-4.5-5.0 |
| -6 | | 0.0 | sl. moist to | FILL | | CINDERS, some ash, little debris, (7.5YR 4/1) dark gray, loose, slightly moist to wet, water table encountered at 6.0 ft bgs. | 10W-H37A-5.5-6.0 |
| -7— -8— | 5 | | wet | | | | 10W-H37A-6.5-7.0 |
| -9 -0 | | 0.0 | | | | | 10W-H37A-8.5-9.0 |
| 11 | | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, some ash, trace brick, (10YR 4/2) dark grayish brown, loose, moist, no odor, no staining. | 10W-H37A-10.5-11.0 |
| 12— 13— - 14— | 5 | 0.0 | slightly moist | SM | | fine to medium silty SAND, (7.5YR 4/2) brown, medium dense, slightly moist, no odor, no staining. Soils consistent with UNDno. | 10W-H37A-12.0-12. |
| -15 -16 - | | 0.0 | dry to sl. moist moist | OL OL | | UNDorg SILT, little organic fibers, (7.5YR 4/3) brown, low plasticity, soft, dry to slightly moist, no odor, no staining. Soils consistent with UNDorg. UNDorg SILT, little organic fibers, (7.5YR 3/3) dark brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 17 - 18 - 19 | 5 | | | | | | |
| -20 | | | | | | | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-H39A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610558.3

 Date Started Drilling:
 5/15/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682505.4

 Date Finished Drilling:
 5/15/2014 11:30:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.6 ft NAVD88

| Depth | | | | | | | |
|----------------------|---------------------|--------------|---------------------------|----------|----------------|--|--------------------|
| Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 0 4 4 P | CONCRETE | |
| -1 - -2 - | 5 | 0.0 | dry to sl. moist | FILL | | fine to medium SAND, some coarse gravel, little concrete, trace debris, (2.5YR 4/3) reddish brown, loose, dry to slightly moist, no odor, no staining. | 10W-H39A-1.0-1.5 |
| -4 | | 0.0 | slightly moist | FILL | | fine to medium SAND, little cinders, little medium to coarse gravel, (5YR 4/4) reddish brown, loose, slightly moist, no odor, no staining. | 10W-H39A-3.0-3.5 |
| -6 | | 0.0 | moist to wet | FILL | | CINDERS, some fine to medium sand, little wood fragments, (5YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table encountered at a depth of 8.5 ft bgs. | 10W-H39A-5.0-5.5 |
| | 5 | | | | | | 10W-H39A-7.0-7.5 |
| 8 | | | | | | | 10W-H39A-8.0-8.5 |
| 9- | | | | | | | 10W-H39A-9.0-9.5 |
| 10— | | 0.0 | wet | FILL | | CINDERS, some ash, little fine to medium sand, trace debris, (5YR 3/1) very dark gray, loose, wet, no odor, no staining. | |
| 12- | | | | | | | 10W-H39A-11.0-11.5 |
| | 5 | | | | | | 10W-H39A-12.0-12.5 |
| 13 — 14 — 15 — | | 0.0 | moist | SM | | UNDno sandy SILT, (5YR 5/3) reddish brown, (7.5YR 4/3) brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno. | 10W-H39A-12.5-13.0 |
| 16 | | 0.0 | moist to wet | SM | | UNDno sandy SILT, (7.5YR 4/3) brown, low plasticity, soft, moist to wet, no odor, no staining. Soils consistent with UNDno. | |
| 17— | 5 | 0.0 | moist | PT | <u> </u> | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, medium stiff, moist, moderate organic odor, no staining. Soils consistent | |
| 18 — 19 — | - | 0.0 | slightly moist | OL | | with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, slightly moist, slight organic odor. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PPG LOGS.GDT - 8/11/14 16:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-H41A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610530.5

 Date Started Drilling:
 5/15/2014 12:05:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682450.5

 Date Finished Drilling:
 5/15/2014 1:00:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Physical Location:
 10 West

 Elevation:
 15.5 ft NAVD88

Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 10W-H41A-0.5-1.0 67.0 fine to medium SAND, some coarse gravel, little brick, FILL dry (7.5YR 4/2) brown, loose, dry to slightly moist, no odor, no to staining, highest PID at 1.5-2.0 ft bgs. sl. 10W-H41A-1.5-2.0 moist 5 10W-H41A-2.5-3.0 10W-H41A-4.5-5.0 0.0 dry **FILL** fine to medium SAND, little cinders, little fine to medium gravel, (7.5YR 4/4) brown, loose, dry, no odor, no staining. 0.0 FILL moist CINDERS, some ash, little debris, (7.5YR 3/1) very dark to gray, loose, moist to wet, no odor, no staining, water table wet 10W-H41A-6.5-7.0 encountered at a depth of 9.0 ft bgs. 10W-H41A-8.5-9.0 NR NO RECOVERY 0.0 **FILL** CINDERS, and ash, some medium gravel, little wood fragments, (7.5YR 3/1) very dark gray, loose, wet, no odor, 10W-H41A-10.5-11.0 no staining. 5 10W-H41A-12.3-12.8 10W-H41A-12.8-13.3 0.0 UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, soft, -13 moist SM moist, no odor, no staining. Soils consistent with UNDno. 0.0 SM UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, soft, wet wet, no odor, no staining. Soils consistent with UNDno. -16 0.0 dry PT PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, dry, 1/ 1/1/ 1 5 moderate organic odor, no staining. Soils consistent with MM. -18 1/ 1/1/ 1 19 0.0 slightly OL UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, moist slight organic odor, no staining. Soils consistent with 20 UNDorg.

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



Boring ID: 10W-H43A

S2:304.3200 dilice telepriorie Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610506.3

 Date Started Drilling:
 5/14/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682397.1

 Date Finished Drilling:
 5/14/2014 10:55:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.6 ft NAVD88

| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|----------|----------------|---|--------------------|
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1- | | 0.0 | dry | FILL | | medium SAND, little gravel, trace ash, (7.5YR 4/2) brown, loose, dry, no odor, no staining. | 10W-H43A-0.5-1.0 |
| -2 -3 -4 | 5 | 0.0 | dry | FILL | | fine to medium SAND, little cinders, trace debris, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining. | 10W-H43A-2.5-3.0 |
| _ | | | | | | | 10W-H43A-4.5-5.0 |
| -5— - -6— | | 0.0 | dry | FILL | | CINDERS, some fine to medium sand, little medium gravel, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining, water table encountered at a depth of 8.0 ft bgs. | 10W-H43A-5.0-5.5 |
| -7- | 4 | | | | | | 10W-H43A-6.5-7.0 |
| | 4 | | | | | | 10W-H43A-7.5-8.0 |
| -8- | | 0.0 | dry | FILL | | fine to medium silty SAND, trace cinders, (7.5YR 3/3) dark | |
| -9- | | | | | | brown, loose, dry, no odor, no staining. | 10W-H43A-8.5-9.0 |
| _ | | | | NR | | NO RECOVERY | |
| 10 | | 0.0 | wet | FILL | | coarse GRAVEL, little silty sand, (7.5YR 4/1) dark gray, | |
| -11 | | | | | | loose, wet, no odor, no staining. | 10W-H43A-10.5-11.0 |
| -12 | 5 | 0.0 | wet | FILL | | fine to medium SAND, trace cinders, trace debris, (10YR | 10W-H43A-12.0-12.5 |
| 13- | | 0.0 | moist | SP | | 5/2) grayish brown, loose, wet, no odor, no staining. UNDno fine to medium SAND, (7.5YR 4/3) brown, loose, moist, no odor, no staining. Soils consistent with UNDno. | 10W-H43A-12.5-13.0 |
| 14 | | | | | | | |
| 15 - | | 0.0 | moist to wet | SM | | UNDno sandy SILT, (10YR 4/3) brown, low plasticity, soft, moist to wet, no odor, no staining. Soils consistent with UNDno. | |
| -17 | 5 | | | | | | |
| 18 | | 0.0 | dry to | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, dry to slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 19- | | | sl. moist | | | organic odor, no staning. Sons consistent with onedorg. | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Logged By: SS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-I43A

Depth to Water: NA

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610548.0

Date Started Drilling: 5/14/2014 11:50:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682380.7 Date Finished Drilling: 5/14/2014 1:00:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Project Manager: Scott Mikaelian

Physical Location: 10 West Elevation: 15.6 ft NAVD88

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|------------------------|----------|----------------|--|---|
| | | 0.0 | | CONCRETE | D 4 4 D 4 | CONCRETE | |
| -1 -2 | E | 0.0 | dry | FILL | | CINDERS, some fine to medium sand, some ash, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining. | 10W-I43A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 10W-I43A-2.5-3.0 |
| -6 | | 0.0 | moist to wet | FILL | | fine to medium SAND, little trace ash, (7.5YR 4/3) brown, loose, moist to wet, no odor, no staining, water table encountered at a depth of 8.5 ft bgs. | 10W-I43A-4.5-5.0 |
| -7 -8 | 4 | | | | | | 10W-I43A-6.5-7.0 |
| • | | | | | | | 10W-I43A-8.0-8.5 |
| 9 | | | | NR | | NO RECOVERY | 10W-I43A-8.5-9.0 |
| . | | 0.0 | wet | FILL | | fine silty SAND, trace cinders, (10YR 4/1) dark gray, loose, wet, no odor, no staining. | 40\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| 11— | | 0.0 | wet to saturated | FILL | | CINDERS, some fine to medium sand, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining. | 10W-I43A-10.5-11.0 |
| 13— | 5 | | | | | | 10W-I43A-12.5-13.0 |
| 15 | | 0.0 | dry | FILL | | fine to medium SAND, trace ash, trace organics, (7.5YR | 10W-143A-14.5-15.0 |
| 16— | | | | | | 4/3) brown, loose, dry, no odor, no staining. | 10W-I43A-15.5-16.0 |
| 17— | _ | 0.0 | dry to moist | SP | | UNDno fine to medium SAND, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining. Soils consistent with UNDno. | 10W-I43A-16.0-16.5 |
| 18 — 19 — 20 — | 5 | 0.0 | wet to saturated | SM | | UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, very soft, wet to saturated, no odor, no staining. Soils consistent with UNDno. | |
| 20 | | | | | | | |
| | | | | 14.1.1 | | ND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval | |

Boring ID: 10W-I44A

| Project | Name: F | 60595 | 5458 | | | Drilling Company: Summit Drilling Drilling Method: Direct Push/Hand Auger | | NAD83) x: 610529.3 |
|----------------------|---------------------|--------------|--|----------------|-------------------|---|--|---|
| | arted Drill | | | | | Rig Type: Geoprobe | Coordinates (NJSPN | |
| | | | 12/9/2019 | | | Core Size: 2 inch | Boring Total Depth: | |
| | l By: Tar | | | est Building | | Project Manager: Cameron Dixon | Depth to Water: 8.5 Surface Elevation: | |
| riysica | ai LUCALIO | ı. Ou | ISIUE IU WE | zar Dulluli Ig | 1 | | Surface Elevation: | 10.0 IL IVA V D00 |
| Depth t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Soil Description: | | Sample ID |
| _ -1 - -2 | | 0 | Dry to Moist | FILL | | fine to medium SAND, some coarse gradebris (glass and bricks), (7.5YR 3/2) d medium dense, dry to moist, no odor, n | ark brown, | |
| -3 -4 -5 | 5 | | Dry to Moist Dry to Moist | FILL | | fine to medium SAND, little coarse gray fragments, potential COPR nodules <1/ magnetic characteristics, (5YR 3/2) dar medium dense, dry to moist, no odor, n fine to medium SAND, some coarse gray rocks, (5YR 4/3) reddish brown, medium moist, no odor, no staining | 8" diameter, k reddish brown, o staining avel, little angular | 10W-I44A-2.0-2.5 |
| -6 -7 | 5 | 0 | | | | | | |
| -8- | | | Moist | FILL | | medium to coarse SAND, some coarse | | |
| \dashv | | | to | FILL | | debris, (7.5YR 3/2) dark brown, mediun die | | |
| -9- | | | Wet Wet | | | \wet, no odor, no staining fine to medium SAND, some silt, little c | parse graval | |
| 4 | | | vvet | | | (7.5YR 4/2) brown, medium dense, wet | | |
| -10 - -11 - | | 0 | | | | staining | | |
| -12 - -13 | 5 | | Wet | FILL | | fine to coarse GRAVEL, some fine sand | ds. little fill debris. | |
| \dashv | | | Wet | FILL | | (7.5YR 3/2) dark brown, medium dense | | 10W-I44A-13.5-14.0 |
| -14 - -15 | | | | | | \staining fine to medium SAND, some silt, little c (7.5YR 4/2) brown, medium dense, wet staining | , no odor, no | |
| | | 0 | Wet | FILL | \longrightarrow | fine to coarse GRAVEL, some fine sand | ds, (7.5YR 3/2) | 40/4/ 1444 155 105 |
| -16 - -17 | 5 | | Wet | FILL | | dark brown, medium dense, wet, no odd fine to coarse silty SAND, little coarse g reddish brown, soft, wet, no odor, no sta | ravel, (5YR 4/3) | 10W-I44A-15.5-16.0 |
| -18 -19 | | | Moist to Wet | OL | | UNDorg- silt, some organic fibers, trace (7.5YR 3/2) dark brown, soft, moist to wodor, no staining | | |
| | | | Maiat | PT | <u></u> | PEAT (dograded viewstated in attail 1) | 7 EVD 2/2\ doct | |
| -20 | | | Moist | FI. | | PEAT (degraded vegetated material), (7 brown, stiff, moist, moderate organic oc | lor, no staining | |
| | ow surface g | | COPR - chro GGM - green | mite ore proc | essing res | sidue UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposit | | factured gas plant omate chemical production was |

Boring ID: 10W-J31A

| Project | Number: | 00240 | 11 00 | | | Drilling Method: | Occidinates (Noci | NAD83) x: 610727.9 | |
|---------------------------|------------------------|--------------|----------------------------|------|----------------|---|--|--|--------------------|
| | arted Dril | | | | | Rig Type: | | AD83) y: 682703.4 | |
| | | | 12/9/2019 | | | Core Size: | Boring Total Depth: | | |
| | By: T | y. | | | | Project Manager: | Depth to Water: | == 11 | |
| | | n: 10\ | V-PDI-201 <u>9</u> | | | | Surface Elevation: | 13 2 ft NAVD88 | |
| | ai Locatio | 100 | V 1 D1 2010 | | | | Curiuse Elevation. | 10.2 1014/0000 | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and | Thickness: | Sample ID | |
| | 5 | 0 | | FILL | | DGA | | | |
| -1- | | | dry | FILL | | fine to coarse SAND, with coarse g little ash, (7.5YR 3/2) dark brown, r odor , no staining | | 10W-J31A-0.5-1.0 | |
| -2 | | | dry | FILL | | fine to medium SAND, some COPF | | 10W-J31A-2.0-2.5 | |
| \Box | | | moist | FILL | | silts, (7.5YR 6/3) light brown, mediuno odor, no staining | um dense, dry to moist , | | |
| -4 | | | moist | FILL | | fine to medium SAND, little coarse brown, medium dense, moist, no of fine to medium SAND, little coarse (5YR 3/4) dark reddish brown, med odor, no staining | dor , no staining gravel and coal fragment, | 10W-J31A-4.0-4.5 | |
| -5 | 4 | 0 | | NR | | NO RECOVERY | | _ | |
| -6 - -7 | | 0 | wet | FILL | | fine to coarse GRAVEL, some f-c s (7.5YR 6/4) light brown, medium de staining | | 10W-J31A-6.0-6.5 | |
| -8 -9 | _ | | 0 | wet | FILL | | fine to coarse SAND, some silts and debris, (2.5Y 5/2) grayish brown, m odor , no staining | | 10W-J31A-8.0-8.5 |
| -10 -11 | 5 | | | wet | FILL | | fine to coarse gravelly SAND, with a slag fragments, (2.5Y 5/1) gray, me | ash, some fill debris, little edium dense, wet , no | 10W-J31A-10.0-10.5 |
| 13- | | | | | | | odor , no staining | 10W-J31A-12.0-12.5 | |
| 14 | 4 | | | | | | | 10W-J31A-14.0-14.5 | |
| 15 | - | 0 | | NR | | NO RECOVERY | | | |
| 16 — - 17— | | | wet | FILL | | fine to coarse SAND, with fill debris (7.5YR 3/3) dark brown, medium de staining | | 10W-J31A-16.0-16.5 | |
| -18 | | | moist | PT | <u> </u> | FEAT (degraded vegetated material | | 10W-J31A-18.0-18.5 | |
| \dashv | | | wet | SM | | brown, stiff, moist, moderate organ | nic odor , no staining | 10W-J31A-18.5-19.0 | |
| -19 | | | | PT | <u> </u> | fine to coarse SAND, little silt, (5YF | R 4/3) reddish brown, | 10W-J31A-19.0-19.5 | |
| 20 | | | moist | P1 | 1, 1, 1 | (medium dense, wet, no odor, no s | l), (7.5YR 3/2) dark | 3317 3311 10.0 10.0 | |
| | | | | | | | | | |
| | ow surface adow mat | | COPR - chro GGM - green | | cessing re | sidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native | | ufactured gas plant romate chemical production wa | |

Boring ID: 10W-J32A

| | Name: F | | | | | Drilling Company: | Coordinates (NJSP | NAD83) x: 610721.4 |
|---------------------------|------------------------|---------------|--------------------------|-------------------------------|--|--|--|--|
| | | | 12/10/2019 | | | Rig Type: | | NAD83) y: 682668.3 |
| | | | 12/11/201 | | | Core Size: | Boring Total Depth: | |
| _ogged | By: TI | | | | | Project Manager: | Depth to Water: | |
| Physica | al Locatio | n: 10V | V-PDI-201 | 9 | | 1 | Surface Elevation: | 13.8 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and T | hickness: | Sample ID |
| | 5 | 0.0 | | ASPHALT | | Asphalt | | |
| -1 -1 2 | | | dry | FILL | | fine to medium SAND, little COPR r 3/3) dark reddish brown, medium de odor , no staining | | 10W-J32A-0.5-1.0 10W-J32A-2.0-2.5 |
| -3 -4 -5 | 3.5 | 0.0 | dry | FILL | | fine to coarse SAND, some fill debri (2.5Y 5/2) grayish brown, medium d odor , no staining | s (glass, ash, brick), dense, dry to moist , no | 10W-J32A-4.0-4.5 |
| -6 -7 | | | moist | FILL | | fine to coarse SAND, with fill debris medium dense, moist to wet , no od | | 10W-J32A-6.0-6.5 |
| -8- - | | | | NR | | NO RECOVERY | , G | 10W-J32A-8.0-8.5 |
| -9 - -10 | 4.5 | 0.0 | | FILL | ×××× | CAND with | and and act (EV E/A) | 10W-J32A-10.0-10.5 |
| -11 -12 -13 - | | 0.0 | wet | FILL | | fine to coarse SAND, with coarse gr gray, medium dense, wet , no odor , | | 10W-J32A-12.0-12.5 |
| -14 | | | | | \bowtie | | | 10W-J32A-14.0-14.5 |
| ¬ | 5 | | | NR | | NO RECOVERY | | 7 |
| -15 - - -16 - | J | 0.0 | wet | FILL | | fine to medium SAND, some coarse dark gray, medium dense, wet , no o | | 10W-J32A-16.0-16.5 |
| _ -17 - -18 | | | | | | | | 10W-J32A-18.0-18.5 |
| 4 | | | | D.T. | $\underset{\underline{M}}{\bigotimes}$ | N DEAT (I | \ | 10W-J32A-18.5-19.0 |
| -19 - | | | moist | PT | 77 77 7 77 77 | (7.5YR 3/2) dark brown, soft, moist |), some organic fibers, , moderate organic odor | 10VV-032A-10.3-19.U |
| 20 | | | | | | | | |
| | ow surface adow mat | | COPR - chr GGM - gree | omite ore proce n grey mud | essing re | esidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native | ative deposits MGP - man deposits CCPW - ch | nufactured gas plant promate chemical production wa |

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 10W-J33A

| | Number: | | | | | Drilling Method: Geoprobe | | PNAD83) x: 610695.5 |
|---------------------------|------------------------|--------------|--------------------------|------------|---------------|--|---|--|
| Date St | arted Dril | ling: | 5/22/2014 | 1:45:00 PM | | Rig Type: | | NAD83) y: 682636.7 |
| | | illing: | 5/22/2014 | 1:55:00 PM | | Core Size: 3 in | Boring Total Depth: | 20 ft |
| Logged | l By: al Locatio | n: 10 | Most | | | Project Manager: | Depth to Water: | 14 0 ft NA\/D00 |
| | ai LOCATIO | 11. 10 | vvest | | | | Surface Elevation: | 14.9 IL INAVDO0 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickr | ness: | Sample ID |
| | | 0.0 | | CONCRETE | | <u> </u> | | |
| -1 2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with cinders, ash, trace coal, (7.5YR 3/2) dark brown, dens staining. | little concrete, e, dry, no odor, no | 10W-J33A-1.0-1.5 |
| -3 -4 - | | | | | | | | 10W-J33A-3.0-3.5 |
| -5 -6 - | | 0.0 | moist to wet | FILL | | CINDERS, with ash, some fine to mediur 3/1) very dark gray, loose, moist to wet, r water table at 5.5 ft bgs. | | 10W-J33A-5.0-5.5 |
| -7— -8— -9— | 5 | | | | | | | 10W-J33A-7.0-7.5 |
| | | 0.0 | | FILL | | ONDEDO vitto de constitución d | | - |
| -11 -12 -13 | 3.5 | 0.0 | saturated | FILL | | CINDERS, with ash, some fine to mediur debris, (10YR 3/1) very dark gray, very lo odor, no staining. | | 10W-J33A-11.0-11.5 |
| ' | | | | | \bowtie | | | 10W-J33A-13.0-13.5 |
| -14 | | | | NR | | NO RECOVERY | | |
| -15 -16 -17 | 5 | 0.0 | wet | FILL | | CINDERS, with debris, (7.5YR 3/1) very loose, wet, no odor, no staining. | dark gray, very | 10W-J33A-15.0-15.5 |
| -18 | | | | | | | | 10W-J33A-18.0-18.5 |
| 4 | | 0.0 | | 01 | | LIND CH T 000/ amounts atta 000/ | | 10W-J33A-18.5-19.0 |
| -19 | | 0.0 | moist | OL | <u> </u> | UNDorg SILT, 80% organic silt, 20% organic silt, | anıc tibers, (10YK anic odor, no | 10W-J33A-16.5-19.0 |
| 20 | | 0.0 | dry | PT | 1, 11, | | % organic fibers, brown, medium | |
| | | | | | | with MM. | | |
| | ow surface adow mat | | COPR - chr GGM - gree | | essing re | esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | eposits MGP - man | ufactured gas plant romate chemical production wa |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-J35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610667.4 Date Started Drilling: 5/22/2014 10:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682582.6 Date Finished Drilling: 5/22/2014 1:40:00 PM Core Size: 3 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Scott Mikaelian Logged By: ES Physical Location: 10 West Elevation: 15.1 ft NAVD88

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|------------------------------|---------------------|--------------|---------------------|----------|----------------|---|--------------------|
| | | 0.0 | | CONCRETE | P 6 4 P | CONCRETE | |
| -1 -2 - | 5 | 0.0 | dry to moist | FILL | | fine to medium SAND, some silty sand, some to little cinders, ash, trace fine to medium gravel, trace concrete, (10YR 4/2) dark grayish brown, dense to loose, dry to moist, no odor, no staining. | 10W-J35A-1.0-1.5 |
| -3 | | | | | | | 10W-J35A-3.0-3.5 |
| -5 | | 0.0 | moist | FILL | | fine to medium silty SAND, with ash, some wood debris, little | 10W-J35A-5.0-5.5 |
| -6 | | 0.0 | wet | FILL | | cinders, (7.5YR 3/4) dark brown, loose, moist, no odor, no staining. CINDERS, and ash, some fine to medium silty sand, little coal, trace debris, (10YR 4/1) dark gray, medium dense, | |
| -8 | 5 | | | | | wet, no odor, no staining, water table at 5.5 ft bgs. | 10W-J35A-7.0-7.5 |
| 10 | | 0.0 | wet | FILL | | CINDERS, with ash, (10YR 3/1) very dark gray, loose, wet, | 10W-J35A-9.0-9.5 |
| -11— -12— -13— | 3.5 | | | | | no odor, no staining. | 10W-J35A-11.0-11.5 |
| 14 | | | | NR | | NO RECOVERY | 10W-J35A-13.0-13.5 |
| 15 - 16 - | | 0.0 | wet | FILL | | fine to medium silty SAND, with ash, cinders, little wood debris, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. | 10W-J35A-15.0-15.5 |
| 17— — 18— | 5 | | | | | | 10W-J35A-17.0-17.5 |
| 19— | | 0.0 | moist | FILL | | sandy SILT, some organics, trace fill material, (10YR 4/2) | 10W-J35A-18.5-19.0 |
| 20 | 1 | 0.0 | moist dry | OL PT | | dark grayish brown, low plasticity, soft, moist, no odor, no staining. Appears to be disturbed native material. sandy SILT, with organics, (10YR 6/2) light brownish gray, low plasticity, soft, moist, no odor, no staining. Soils | 10W-J35A-19.0-19.5 |
| | | | | | | consistent with UNDorg. PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 4/3) brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM. | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval of | |



Boring ID: 10W-J38A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610635.6

 Date Started Drilling:
 5/16/2014 10:20:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682522.1

 Date Finished Drilling:
 5/16/2014 12:50:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.2 ft NAVD88

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|-----------------------------|----------------|-------|--------------------|----------|--------------------|--|---------------------|
| t bgs) | (ft/ft) | (ppm) | Content | 0303 | Log | Surface Cover and mickiness. | ID |
| | | 0.0 | | CONCRETE | D 4 4 D 4 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with cinders, ash, little fine to coarse gravel, trace brick, concrete, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining. | 10W-J38A-0.6-1.1 |
| -3 -4 | 0 | | | | | | 10W-J38A-2.5-3.0 |
| -5— -6— | | 0.0 | moist to wet | FILL | | ASH, and cinders, some fine to coarse sand, little fine to medium gravel, (10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table at 8.0 ft bgs. | 10W-J38A-4.5-5.0 |
| -7— | 4 | | | | | The state of the s | 10W-J38A-6.5-7.0 |
| -8- | | | | | | | 10W-J38A-7.5-8.0 |
| 9- | | | | NR | | NO RECOVERY | 10W-J38A-8.5-9.0 |
| 10 | | 0.0 | | | **** | | |
| 11— | | 0.0 | wet | FILL | | CINDERS, and ash, with fine to medium silty sand, little fine to medium gravel, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. | 10W-J38A-10.5-11.0 |
| 13— 14— | 5 | | | | | | 10W-J38A-12.5-13.0 |
| 15 - 16 | | 0.0 | moist to wet | FILL | | sandy SILT, some wood debris, (5YR 2.5/1) black, soft, moist to wet, no odor, no staining. | 1000-0000-14.0-10.0 |
| . | | 0.0 | moist | FILL | | sandy SILT, little organics (grass), (10YR 4/3) brown, soft, | 10W-J38A-16.5-17.0 |
| 17— - 18— - 19— | 5 | 0.0 | moist | SM | | moist, no odor, no staining. Appears to be disturbed native material. sandy SILT, (10YR 4/3) brown, soft, moist, no odor, no staining. Soils consistent with UNDno. | 10W-J38A-17.0-17.5 |
| 20 | | 0.0 | dry | PT | 7 7 7 7 7 7 7 7 | PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (7.5YR 2.5/2) very dark brown, medium dense to soft, dry, moderate organic odor, no staining. Soils consistent with MM. | |
| | | | | | | | |
| | nts: 1) 3 atte | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-J39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610611.7Date Started Drilling:5/16/2014 1:00:00 PMRig Type:Coordinates (NJSPNAD83) y:682477.5

 Date Finished Drilling:
 5/16/2014 1:40:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.2 ft NAVD88

| Recovery | PID | Moisture | | Graphic | | Sample |
|----------|-------|--|------------------------------|----------------|--|--|
| (ft/ft) | (ppm) | Content | | Log | Surface Cover and Thickness: | ID |
| | 0.0 | | CONCRETE | D A A D | CONCRETE | |
| 5 | 0.0 | dry | FILL | | fine to medium SAND, little fine to coarse gravel, little to trace brick, trace glass, wood debris, (10YR 3/1) very dark gray, medium dense to dense, dry, moderate hydrocarbon odor, no staining. | 10W-J39A-0.5-1.0 |
| | | | | | | 10W-J39A-2.5-3.0 |
| | | | | | | 10W-J39A-3.0-3.5 |
| | | | | | | 10W-J39A-4.5-5.0 |
| | 0.0 | wet | FILL | | CINDERS, with ash, little medium to coarse sand, (10YR 3/1) very dark gray, loose, wet, no odor, no staining, water table at 7.5 ft bgs. | |
| | | | | | | 10W-J39A-6.5-7.0 |
| | | | | | | 10W-J39A-7.0-7.5 |
| 4 | | | | | | 1011 00071110 11.0 |
| | | | | | | 10W-J39A-8.5-9.0 |
| | | | NR | | NO RECOVERY | |
| | 0.0 | wet | FILL | | CINDERS, and ash, some fine to medium gravel, trace | |
| | | | | | glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. | 10W-J39A-10.5-11.0 |
| 5 | | | | | | 10W-J39A-12.5-13.0 |
| | | | NR | ××××× | NO RECOVERY | - |
| | | | | | | |
| | 0.0 | wet | FILI | | fine to medium silty SAND, and wood dehris (5YR 2.5/1) | - |
| 4 | | WOL | | | black, loose, wet, no odor, hydrocarbon staining. | 10W-J39A-16.5-17.0 |
| | 0.0 | moist | FILL | | SILT, some organics (grass), (10YR 5/2) grayish brown, soft, moist, no odor, no staining. Appears to be disturbed | 10W-J39A-18.5-19.0 |
| | 0.0 | dry | PT | 1/2 V/2 V | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, medium | 10W-J39A-19.0-19.5 |
| | | | | | with MM. | |
| | 5 | (ft/ft) (ppm) 0.0 0.0 0.0 4 0.0 0.0 4 0.0 0.0 | (ft/ft) (ppm) Content 0.0 | O.0 CONCRETE | Content Cosc Log | O.0 CONCRETE O.0 CONCRETE O.0 CONCRETE O.0 CONCRETE O.0 O.0 CONCRETE O.0 O.0 |



Boring ID: 10W-J41A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610588.1

 Date Started Drilling:
 5/19/2014 10:35:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682423.2

Date Finished Drilling: 5/19/2014 11:10:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: 10 West Elevation: 15.2 ft NAVD88

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--|---------------------|--------------|---------------------|----------|----------------|--|------------------|
| | | 0.0 | | CONCRETE | 0 4 0 0 | CONCRETE | |
| -1- | | 0.0 | dry | FILL | | crushed CONCRETE, and coarse gravel, some fine to medium sand, (7.5YR 7/1) light gray, loose, dry, no odor, no staining. | 10W-J41A-1.0-1.5 |
| -2- - | 5 | 0.0 | dry | FILL | | fine to medium SAND, little ash, little fine to medium gravel, trace brick fragments, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | |
| -3 -4 - | | | | | | 555.), no 555 | 10W-J41A-3.0-3.5 |
| -5- | | 0.0 | moist to | FILL | | fine to medium silty SAND, little ash, little fine to medium gravel, trace coal, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining, water table encountered at a depth of 6.5 | 10W-J41A-5.0-5.5 |
| -6 -7 | | | wet | | | ft bgs. | 10W-J41A-6.0-6.5 |
| -8 | 5 | | | | | | 10W-J41A-7.0-7.5 |
| ر ۲ | | | | | | | 10W-J41A-8.0-8.5 |
| -9 | | 0.0 | wet | SP-SM | | UNDno fine silty SAND, (7.5YR 4/2) brown, loose, wet, no odor, no staining. Soils consistent with UNDno. | 10W-J41A-8.5-9.0 |
| -10 - -11 | | 0.0 | wet | SP-SM | | UNDno fine silty SAND, some silt, (7.5YR 4/2) brown, wet, no odor, no staining. Soils consistent with UNDno. | |
| -12 -13 -13 -14 -14 -15 | 5 | | | | | | |
| -16 | | | | NR | | NO RECOVERY. No recovery due to large native gravel obstructing liner path. | |
| _ -17 | 0 | | | | | | |
| -18 | J | | | | | | |
| -19 | | | | | | | |
| 20 | | | | | | | |
| | 4. 4) 0 -11- | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval | |

Boring ID: 10W-J45A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Coordinates (NJSPNAD83) x: 610559.6 **Date Started Drilling:** 5/13/2014 10:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682324.3

Date Finished Drilling: 5/13/2014 12:10:00 PM Core Size: 2 in Boring Total Depth: 25 ft Depth to Water: NA Logged By: ES Project Manager: Scott Mikaelian

| | | | | | | (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 |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1 -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with cinders, ash, little silty sand, trace coal, medium dense, dry, no odor, no staining. | 10W-J45A-0.5-1.0 |
| -3 -4 | 3 | | | | | | 10W-J45A-2.5-3.0 |
| -5- | | | | | | | 10W-J45A-4.5-5.0 |
| | | 0.0 | moist | FILL | | SILT, trace debris, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, greenish staining noted. | 10W-J45A-5.0-5.5 10W-J45A-5.5-6.0 |
| -6 -7 -8 | 4 | 0.0 | wet | FILL | | ASH, with cinders, little silty sand, (10YR 5/2) grayish brown, wet, no odor, no staining, water table at 6.0 ft bgs. | 10W-J45A-6.5-7.0 |
| -9- - | | | | | | | 10W-J45A-8.5-9.0 |
| - | | | | NR | | NO RECOVERY | |
| -10 -11 -12 | | 0.0 | wet | FILL | | fine to medium silty SAND, some glass, little debris, trace coal, (10YR 4/2) dark grayish brown, medium dense, wet, no odor, no staining. | 10W-J45A-10.5-11.0 |
| -13 -14 | 5 | | | | | | 10W-J45A-12.5-13.0 |
| -15 | | 0.0 | wet | FILL | | fine silty SAND, trace glass, (10YR 4/2) dark grayish brown, | 10W-J45A-14.5-15.0 |
| -16 | | | | | | soft, wet, no odor, no staining. | |
| -17 -18 | 5 | 0.0 | moist | FILL | | SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining. | 10W-J45A-16.5-17.0 |
| -19 | | | | | | | 10W-J45A-18.5-19.0 |
| 20 | | 0.0 | | F | | OUT (100 debrie (40)/D (40) | 10W-J45A-19.7-20.2 |
| -21 - -22 | 5 | 0.0 | moist moist | OL | | SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | 10W-J45A-20.2-20.7 |
| 23 - | υ | | | | | | |



Boring ID: 10W-J45A

Page: 2

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Coordinates (NJSPNAD83) x: 610559.592 Project Number: 60240739 Drilling Method: Date Started Drilling: 5/13/2014 10:15:00 AM

Date Finished Drilling: 5/13/2014 12:10:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682324.266

| Logged By: E Physical Local Depth Range (ft bgs) | ntion: 10 | West | | ļ | Project Manager: | Scott Mikaelian | Depth to Water: NA | |
|--|-----------|---------------------|-------------|----------------|------------------|---------------------------|--------------------|-----------------------------|
| | | West | | | | | | |
| Depth Range (ft bgs) | any PID | | | | | | A1- C | bgs = below ground surface) |
| | (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thickne | | Sample ID |
| 25 | | | | | | | | |
| 25 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | abtain to a | O' | UND/MM confirmed | in hin A Et Hill | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-K32A

| | | i age. i |
|--|-------------------------------------|-------------------------------------|
| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610756.4 |
| Date Started Drilling: 5/9/2014 10:00:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682649.6 |
| Date Finished Drilling: 5/9/2014 11:05:00 AM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: 10 West | | Elevation: 12.3 ft NAVD88 |
| | | (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 | 5 | 0.0 | slightly moist moist | ASPHALT FILL FILL | | ASPHALT crushed CONCRETE, some medium to coarse gravel, (7.5YR 7/1) light gray, loose, slightly moist, no odor, no staining. fine to medium SAND, little fine to medium gravel, (10YR 5/6) yellowish brown, loose, moist, no odor, no staining. | 10W-K32A-1.0-1.5 |
| -3- | | 0.0 | wet | FILL | | fine to medium silty SAND, little cinders, (7.5YR 2.5/1) | 10W-K32A-3.0-3.5 |
| -4 | | 0.0 | wet | FILL | | black, loose, wet, no odor, no staining. GGM, and fine to medium sand, little medium gravel, little cinders, trace glass fragments, (5GY 5/2) grayish green, loose, wet, no odor, no staining, water table encountered at | 10W-K32A-3.5-4.0 |
| -5 - -6 | | 0.0 | wet | FILL | | 4.0 ft bgs. GGM, and fine to medium sand, little medium gravel, little cinders, (5GY 5/2) grayish green, loose, wet, no odor, no staining. | 10W-K32A-5.0-5.5 |
| -7 - | 5 | 0.0 | wet | FILL | | GGM, and cinders, (7.5YR 4/1) dark gray, loose, wet, no odor, green staining. | |
| -8 -9 -10 | | 0.0 | moist | FILL | | GGM, fine to medium sand, little cinders, trace wood fragments, (5GY 5/2) grayish green, loose, moist, no odor, no staining. | |
| _ _11 _12 _13 | 5 | 0.0 | moist | FILL | | GGM, with fine to medium sand, little cinders, little ash, (5GY 5/2) grayish green, loose, moist, no odor, no staining. | 10W-K32A-11.5-12.0 10W-K32A-13.0-13.5 |
| -14 - -15 | | 0.0 | moist | FILL | | GGM, with fine to medium sand, (5GY 5/2) grayish green, | 10W-K32A-15.0-15.5 |
| -16 -16 | | 0.0 | moist | FILL | | loose, moist, no odor, no staining. SILT, little clay, (7.5YR 2.5/1) black, low plasticity, soft, moist, no odor, no staining. | 10W-K32A-15.7-16.2 |
| -17 - -18 | 5 | | | | | | 10W-K32A-17.0-17.5 |
| -19 - -20 | | 0.0 | dry to sl. moist | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry to slightly moist, moderate organic odor. Soils consistent with MM. | 10W-K32A-18.5-19.0 10W-K32A-19.0-19.5 |
| | | | | | | | |
| ommei | nts: 1) 3 atte | mnts we | ere made to | ohtain hest red | covery 2) I | JND/MM confirmed to be 1 ft thick. | |

Boring ID: 10W-K34A

| | t Name: F t Number: | | | | | Drilling Company: | Coordinates (N ISD | NAD83) x: 610700.8 |
|------------------------------|------------------------|--------------|---------------------|---------------------------|---------------|---|--|--|
| | tarted Dril | | | <u> </u> | | | | |
| | | | | | | Rig Type: Core Size: | - | IAD83) y: 682612.5 |
| | inished Dr | illing: | 12/12/20 | 19 | | | Boring Total Depth: | 21 π |
| ogged | | m. 40° | W DDI 004 | 0 | | Project Manager: | Depth to Water: | 4.4.0. ft NIA\/D00 |
| rnysica | al Locatio | n: 10V | (v-PDI-201 | 9 | <u> </u> | | Surface Elevation: | 14.δ π NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thick | ness: | Sample ID |
| | 5 | 0 | | CONCRETE | P & 4 | CONCRETE | | |
| -1 | | | dry | FILL | | fine to medium SAND, little coarse grave (brick fragments), (7.5YR 4/3) brown, m moist , no odor , no staining | | 10W-K34A-0.5-1.0 |
| -2 | | | dry | FILL | | fine to medium SAND, some coarse gra (brick pieces), (7.5YR 2.5/2) very dark b dense, dry to moist , no odor , no stainin | rown, medium | 10W-K34A-2.0-2.5 |
| -3- | | | dry | FILL | | fine to medium SAND, (7.5YR 6/4) light | brown medium | 1 |
| \dashv | | | dry | FILL | \bowtie | dense, dry to moist , no odor , no stainin | ia / | 1 |
| -4 | | | | | | fine to medium SAND, little silt, trace co | al/slag, (7.5YR / | 10W-K34A-4.0-4.5 |
| -5- | 2.5 | | dry | FILL | | 2.5/1) black, dense, dry to moist , slight staining | chemical odor , no | 7011 10-17-1.0-1.0 |
| _6_ | | 0 | | NR | | fine to medium SAND, some coarse gra (glass fragments and bricks), (7.5YR 4/2 dense, dry to moist, no odor, no stainin | 2) brown, medium / | |
| -7 -8 | | | dry | FILL | | NO RECOVERY fine to medium SAND, some fill debris (I chunks), (5YR 4/4) reddish brown, medi moist , no odor , no staining | brick fragments and | 10W-K34A-6.0-6.5 |
| 0 — | | | | ND | | NO DECOVEDY | | 10W-K34A-8.0-8.5 |
| -9 | | | | NR | | NO RECOVERY | | |
| -10 | 5 | | | | | | | 10W-K34A-10.0-10.5 |
| -11 -12 | | 0 | wet | FILL | | fine to coarse GRAVEL, some fill debris fragments), little fine to medium sands, medium dense, wet , no odor , no stainir | (2.5Y 4/1) dark gray, | 10W-K34A-12.0-12.5 |
| -13 -14 -15 | 6 | 0 | | | | | | 10W-K34A-14.0-14.5 |
| -16 - - -17 | | | | | | | | 10W-K34A-16.0-16.5 |
| -18 — — -19— | | | | | | | | 10W-K34A-18.0-18.5 |
| - | | | | | | X | | 10W-K34A-19.5-20.0 |
| -20 - | | | moist | PT | | PEAT (degraded vegetated material), litt (7.5YR 3/2) dark brown, soft, moist , str | le organic fibers, ong organic odor , | 10W-K34A-20.0-20.5 |
| - 21 | | | | | | no staining | | |
| | eadow mat | | | omite ore procen grey mud | essing re | esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep | | ufactured gas plant comate chemical production wa |

A.GDT - 3/28/22

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 10W-K35A

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Project Number: 60240739 Coordinates (NJSPNAD83) x: 610680.9 **Drilling Method:** Date Started Drilling: 12/11/2019 Rig Type: Coordinates (NJSPNAD83) y: 682587.0 Date Finished Drilling: 12/12/2019 Core Size: Boring Total Depth: 20 ft Project Manager: Logged By: TI Depth to Water: Physical Location: 10W-PDI-2019 Surface Elevation: 14.8 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) 0 5 **FILL** Concrete 10W-K35A-0.5-1.0 **FILL** fine to medium SAND, little fill debris (glass, bricks), (7.5YR dry 4/2) brown, medium dense, dry to moist, no odor, no dry FILL FILL medium to coarse SAND, some coarse gravel, little fill dry debris, (7.5YR 4/2) brown, medium dense, dry to moist, no 10W-K35A-2.0-2.5 odor , no staining fine to medium SAND, some coarse gravel, trace COPR nodules, (5YR 4/3) reddish brown, medium dense, dry to FILL moist, no odor, no staining **FILL** dry Concrete fine to coarse SAND, some coarse gravel, little fill debris (glass fragments), (7.5YR 2.5/2) very dark brown, medium 10W-K35A-4.0-4.5 dense, dry to moist, no odor, no staining 0 NR NO RECOVERY 10W-K35A-6.0-6.5 FILL fine to coarse SAND, some coarse gravel, little fill debris moist (glass fragments), (2.5Y 5/1) gray, medium dense, moist, no odor, no staining 10W-K35A-8.0-8.5 NO RECOVERY NR 0.5 0 10W-K35A-12.0-12.5 **FILL** fine to coarse SAND, some coarse gravel, trace fill debris, wet (7.5YR 2.5/2) very dark brown, loose, wet, no odor, no NR staining NO RECOVERY 0 16 10W-K35A-16.0-16.5 wet FILL fine to coarse SAND, some ash, (2.5Y 4/1) dark gray, medium dense, wet, no odor, no staining 10W-K35A-17.5-18.0 10W-K35A-18.0-18.5 moist OL fine to medium sandy SILT, trace organic fibers, (2.5Y 3/1) very dark gray, soft, moist, slight organic odor, no staining 19 20 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-K44A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610576.3

 Date Started Drilling:
 5/12/2014 12:30:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682348.9

 Date Finished Drilling:
 5/12/2014 1:00:00 PM
 Core Size: 2 in
 Boring Total Depth:
 25 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Physical Location:
 10 West
 Elevation:
 15.6 ft NAVD88

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|---------------------|----------|-------|------------------------|----------|-----------|---|--------------------|
| Range t bgs) | (ft/ft) | (ppm) | | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1— - -2— | 5 | 0.0 | dry | FILL | | fine to medium SAND, little fine to medium gravel, trace concrete, (10YR 3/3) dark brown, dry, no odor, no staining. | 10W-K44A-0.5-1.0 |
| -3 -4 | | | | | | | 10W-K44A-2.5-3.0 |
| | | | | | \bowtie | | 10W-K44A-4.5-5.0 |
| -5 -6 -7 - | 5 | 0.0 | moist | FILL | | fine to medium silty SAND, with cinders, ash, little wood debris, (10YR 4/1) dark gray, loose, moist, no odor, no staining. | 10W-K44A-6.5-7.0 |
| -8 -9 | | | | | | | 10W-K44A-8.5-9.0 |
| -10 | | 54.9 | 4 | FILL | | fine to marking with OANID with violator (40)/D O(4) and | 10W-K44A-9.5-10.0 |
| -11 -1 | | 54.9 | wet to saturated | FILL | | fine to medium silty SAND, with cinders, (10YR 3/1) very dark gray, medium dense, wet to saturated, moderate hydrocarbon odor, hydrocarbon staining, sheen, water table at 10 ft bgs. | 10W-K44A-10.5-11.0 |
| -12 | 5 | | | | | | 10W-K44A-12.5-13.0 |
| 15 | | | | | | | 10W-K44A-14.5-15.0 |
| -15 | | 35.0 | wet | FILL | | fine to medium silty SAND, some cinders, (10YR 4/1) dark | |
| -16 | | 0.0 | moist | FILL | | gray, medium dense, wet, slight hydrocarbon odor, hydrocarbon staining, sheen. sandy SILT, trace debris, (10YR 3/3) dark brown, low | |
| -17 -18 | 5 | | | | | plasticity, soft, moist, no odor, no staining. | 10W-K44A-16.5-17.0 |
| | | 0.0 | moint | FILL | | CILT trace debrie (10P 4/2) week red levelecticity act | 10W-K44A-18.5-19.0 |
| 20 | | | moist to wet | | | SILT, trace debris, (10R 4/2) weak red, low plasticity, soft, moist to wet, no odor, no staining. | |
| 4 | | 0.0 | moist | FILL | | SILT, trace debris, (7.5YR 2.5/1) black, low plasticity, soft, moist, no odor, no staining. | 10W-K44A-20.5-21.0 |
| 21 | | 0.0 | moist | SM | | UNDno SILT, (7.5YR 4/2) brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with | 10W-K44A-21.0-21.5 |
| -22 | 5 | 0.0 | moist | OL | | UNDno. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR | |
| 23 - | | | | | | 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |



Boring ID: 10W-K44A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | - |
|--|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: | Coordinates (NJSPNAD83) x: 610576.326 |
| Date Started Drilling: 5/12/2014 12:30:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 682348.86 |
| Date Finished Drilling: 5/12/2014 1:00:00 PM | Core Size: 2 in | Boring Total Depth: 25 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: 10 West | - | |

| Denth | | | | | | | |
|---------------------------|---------------------|--------------|---------------------|------|----------------|--|--------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | D/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any in | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-K45A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Coordinates (NJSPNAD83) x: 610566.1

Date Started Drilling: 5/12/2014 9:50:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682316.2

Date Finished Drilling: 5/12/2014 12:20:00 PM Core Size: 2 in Boring Total Depth: 25 ft

Logged By: ES Project Manager: Scott Mikaelian Depth to Water: NA

| | | | | | | | (Note bgs = below ground surface) |
|----------------------|---------------------|--------------|---------------------|--------------|--|---|-----------------------------------|
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D 0 0 D | CONCRETE | |
| -1 | | 0.0 | wet dry | FILL FILL | | fine to medium SAND, little stones, (7.5YR 6/3) medium dense, wet, no odor, no staining. fine to medium SAND, some cinders, ash, mediudry, no odor, no staining. | |
| -3 -4 | 5 | | | | | | 10W-K45A-2.5-3.0 |
| _ | | | | | | | 10W-K45A-4.5-5.0 |
| 5 | | 0.0 | moist | FILL | | fine to medium silty SAND, with cinders, ash, (10 | 0YR 4/1) |
| 6- | | 0.0 | moist to | FILL | | dark gray, soft, moist, no odor, no staining. sandy SILT, little to trace cinders, ash, (7.5YR 6, brown, soft, moist to wet, no odor, no staining, w | |
| 7 | 5 | 97.5 | wet wet | FILL | | 6.2 ft bgs. sandy SILT, some cinders, ash, (10YR 4/1) dark loose, wet, moderate hydrocarbon odor, no stain | 10W-K45A-6.5-7.0 |
| 9— | | | | | | | 10W-K45A-8.5-9.0 |
| ., - | | | | | | | 10W-K45A-9.5-10.0 |
| 10 | | 11.7 | saturated | FILL | | CINDERS, with silty sand, (7.5YR 2.5/1) black, I | |
| 11— | - | 14.1 | moist | FILL | | saturated, slight hydrocarbon odor, hydrocarbon sandy SILT, some to little cinders, trace debris, (dark brown, soft, moist, slight hydrocarbon odor, | 10YR 3/3) |
| 13— 14— | 5 | | | | | | 10W-K45A-12.5-13.0 |
| 15 | | 0.0 | | FILL | | CHT little fine count little to trace play, trace play | 10W-K45A-14.5-15.0 |
| 16 | | 0.0 | wet | FILL | | SILT, little fine sand, little to trace clay, trace glas 2.5/1) black, soft, wet, no odor, no staining. | ss, (7.51K |
| 17— 18— | 5 | | | | | | 10W-K45A-16.5-17.0 |
| 19— | | | | | | | 10W-K45A-18.5-19.0 |
| 20- | | 0.0 | a!-4 | | | CILT trace debrie (40)/D 4/0) today mark to | 10W-K45A-19.5-20.0 |
| 4 | | 0.0 | moist | FILL | | SILT, trace debris, (10YR 4/2) dark grayish brow moist, no odor, no staining. | /n, sort, 10W-K45A-20.5-21.0 |
| 21 | | | | | | - | 10W-K45A-21.0-21.5 |
| 22 | 5 | 0.0 | moist | PT | <u>\(\frac{1}{2}\)\(\fr</u> | PEAT (degraded vegetated material), 80% organic 20% organic silt, firm, moist, moderate organic control of the | ic fibers, 10W-K45A-21.5-22.0 |
| 23— | J | | | | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | staining. Soils consistent with MM. | |
| _ | | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibe | ore (10VP |



Boring ID: 10W-K45A

Page: 2 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 610566.065 Date Started Drilling: 5/12/2014 9:50:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682316.219 Date Finished Drilling: 5/12/2014 12:20:00 PM Core Size: 2 in Boring Total Depth: 25 ft

| | nished Dr | | | | | ore Size: 2 in | Boring Total Depth: | |
|--------------------|---------------------|--------------|---------------------|------|----------------|--|------------------------|----------------------------|
| gged | d By: ES | | | | Pi | roject Manager: Scott Mikaelian | Depth to Water: NA | |
| ysic | al Location | n: 10 | West | | | | | bits to define |
| | | | | | | | (Note b | gs = below ground surface) |
| pth nge ogs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thi | ickness: | Sample ID |
| -3-7 | | | | | <u> </u> | F/1) gray post majet elight erganic es | der ne etaining Caile | |
| _ | | | | | | 5/1) gray, soft, moist, slight organic or consistent with UNDorg. | dor, no staining. Sons | |
| 5 | | | | | | Conclosion with Ortborg. | | |
| .5 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | 1 | | | | | | | |

PPG - PPG_LOGS.GDT - 8/11/14 16:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-L37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610697.2

 Date Started Drilling:
 5/21/2014 12:45:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682503.2

 Date Finished Drilling:
 5/21/2014 1:50:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.0 ft NAVD88

| Depth Range It bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------------|----------|----------------|--|--------------------|
| | | 0.0 | | CONCRETE | D P Q D | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some fine to coarse gravel, little glass, trace brick, (7.5YR 3/2) dark brown, dense, dry, no odor, no staining. | 10W-L37A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 10W-L37A-2.5-3.0 |
| _ 7 | | | | | | | 10W-L37A-4.5-5.0 |
| -5— — -6— | | 0.0 | sl. moist to wet | FILL | | fine to coarse SAND, with ash, cinders, little wood debris, trace glass, (10YR 3/1) very dark gray, medium dense to loose, slightly moist to wet, no odor, no staining. | 10W-L37A-5.0-5.5 |
| -7 -8 | 5 | | wet | | | | 10W-L37A-6.5-7.0 |
| -9 -10 | | 0.0 | | FILL | | ONDERO and ask with first transfer of the said little | 10W-L37A-8.5-9.0 |
| -11 -12 | 5 | 0.0 | wet to saturated | FILL | | CINDERS, and ash, with fine to medium silty sand, little wood debris, wet to saturated, no odor, no staining. | 10W-L37A-10.5-11.0 |
| 13 — — 14 — — | 3 | | | | | | 10W-L37A-12.5-13.0 |
| 15 — — 16 — | | 0.0 | wet | FILL | | CINDERS, and ash, some silty sand, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. | |
| 17— - 18— | 5 | 0.0 | wet | FILL | | sandy SILT, some organics, trace brick fragments, (7.5YR 3/4) dark brown, low plasticity, soft, wet, no odor, no staining. Appears to be disturbed native material. | 10W-L37A-16.5-17.0 |
| -19 -20 | | | | | | | 10W-L37A-18.5-19.0 |
| | | 0.0 | wet | FILL | | sandy SILT, with coarse gravel, some debris, (5YR 4/3) | 10W-L37A-20.0-20.5 |
| 21 | 5 | 0.0 | dry | PT | | reddish brown, low plasticity, loose, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 10W-L37A-20.5-21.0 |



Boring ID: 10W-L37A

Page: 2

Project Name: PPG Garfield Ave Drilling Company: SGS
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610697.174

 Date Started Drilling:
 5/21/2014 12:45:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682503.234

 Date Finished Drilling:
 5/21/2014 1:50:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ff

| | | illing: | 5/21/2014 | 1:50:00 PM | C | ore Size: 3.0 in | | Boring Total Depth: | : 25 ft |
|----------------------------|---------------------|--------------|---------------------|-----------------|----------------|---------------------------------|---|--|---------------------------------|
| Logged | d By: ES | | | | Pr | oject Manager: | Scott Mikaelian | Depth to Water: N | A |
| Physic | al Locatio | n: 10 | West | | | | | | |
| | | | | | | | | (No | ote bgs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thickn | | Sample ID |
| | | 0.0 | moist | OL | | UNDorg SILT, 4/2) brown, lov | 80% organic silt, 20% orga w plasticity, soft, moist, sligl consistent with UNDorg. | anic fibers, (7.5YR nt organic odor, no | |
| 25 | | | | | | staining. Soils | consistent with UNDorg. | it organic odor, no | |
| Comme | nts: 1) 3 atte | empts we | ere made to | obtain best red | covery 2) U | ND/MM confirmed | to be 1 ft thick 3) No COPR/G | GM present in any interv | al of this boring. |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-L39A

Project Name: PPG Garfield Ave Drilling Company: SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610668.6

 Date Started Drilling:
 5/19/2014 12:10:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682450.1

 Date Finished Drilling:
 5/19/2014 1:25:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Physical Location:
 10 West
 Elevation:
 15.0 ft NAVD88

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|--|------------------------|
| | | 0.0 | | CONCRETE | P 4 4 P 9 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, little ash, trace crushed concrete, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining. | 10W-L39A-0.5-1.0 |
| -3 | ŭ | | | | | | 10W-L39A-2.5-3.0 |
| . 5 | | | | | | | 10W-L39A-4.5-5.0 |
| -6 | | 0.0 | slightly moist | FILL | | fine to medium SAND, little fine to medium gravel, trace debris, (7.5YR 2.5/2) very dark brown, loose, slightly moist, no odor, no staining. | |
| ٠ _ | | | | | | no odor, no odaninig. | 10W-L39A-6.0-6.5 |
| -7 -8 | 4 | 0.0 | wet | FILL | | CINDERS, some fine to medium sand, little ash, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining, water table encountered at a depth of 6.5 ft bgs. | 10W-L39A-6.5-7.0 |
| - | | | | | | | 10W-L39A-8.5-9.0 |
| 9 | | | | NR | ××××× | NO RECOVERY | |
| \dashv | | | | IVIX | | NO REGOVERT | |
| 10 | | 0.0 | moist | FILL | | CINDERS, with fine to coarse sand, (7.5YR 2.5/3) very dark | |
| -11 -12 | | 0.0 | to wet | 1122 | | brown, loose, moist to wet, no odor, no staining. | 10W-L39A-10.5-11.0 |
| 13— - 14— | 5 | | | | | | 10W-L39A-12.5-13.0 |
| 15 | | | | | | | 10W-L39A-14.5-15.0 |
| 15 - 16 - | | 0.0 | wet | FILL | | fine to medium SAND, and cinders, little medium gravel, trace wood fragments, (7.5YR 3/1) very dark gray, loose, wet, slight hydrocarbon odor, no staining. | |
| -17 -18 | 4 | | | | | | 10W-L39A-16.5-17.0 |
| 4 | | | | | | - | 10/1/ 1 201/ 40 5 40 0 |
| 19— | | | | NR | | NO RECOVERY | 10W-L39A-18.5-19.0 |
| 20 | | 8.1 | me!st | FIL. | | fine to modium CAND trace economical (7.5VD 0.5(4) | |
| _ -21 - | | 0.1 | moist to wet | FILL | | fine to medium SAND, trace coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining. | 10W-L39A-20.5-21.0 |
| 22 | _ | | | | | - | 10W-L39A-22.0-22.5 |
| 23 | 5 | 0.0 | dry | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with | 10W-L39A-22.5-23.0 |



Boring ID: 10W-L39A

Page: 2

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610668.557Date Started Drilling:5/19/2014 12:10:00 PMRig Type:Coordinates (NJSPNAD83) y:682450.068

 Date Finished Drilling:
 5/19/2014 1:25:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

| Logged By: SS P | | | | | | Project Manager: Scott Mikaelian | Depth to Water: NA | 4 |
|----------------------------|---------------------|-----|---------------------------|------|----------------|---|--------------------|--|
| Physical Location: 10 West | | | | | | | | |
| Depth Range (ft bgs) | Recovery (ft/ft) | | Moisture Content | USCS | Graphic Log | | ness: | te bgs = below ground surface) Sample ID |
| (ft bgs) | (ft/ft) | 0.0 | dry to sl. moist | OL | | UNDorg SILT, 90% organic silt, 10% organic odor, no staining. Soils consisten | | ID |
| | | | | | | IND/MM confirmed to be 1 ft thick 3) No COPR/G | | |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-L41A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610640.6

 Date Started Drilling:
 5/20/2014 9:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682396.8

 Date Finished Drilling:
 5/20/2014 11:05:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 15.1 ft NAVD88

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------------|----------|--|---|--------------------|
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1 - -2 - | 5 | 0.0 | dry to sl. moist | FILL | | fine to medium SAND, some fine to medium gravel, little crushed concrete, little ash, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining. | 10W-L41A-1.0-1.5 |
| -3 -4 - | | | | | | | 10W-L41A-3.0-3.5 |
| -6- | | 0.0 | dry | FILL | | fine to medium SAND, some fine to medium gravel, little debris, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining, water table encountered at a depth of 7.0 ft bgs. | 10W-L41A-5.0-5.5 |
| _ | | | | | | | 10W-L41A-6.5-7.0 |
| -8 | 5 | | | | | | 10W-L41A-7.0-7.5 |
| -9 | | 0,0 | dry | FILL | | fine to medium SAND, little ash, little medium gravel, trace | 10W-L41A-9.0-9.5 |
| 11— | 4 | | to moist | | | glass fragments, (7.5YR 2.5/3) very dark brown, loose, dry to moist, no odor, no staining. | 10W-L41A-11.0-11.5 |
| 14- | | | | NR | | NO RECOVERY | 10W-L41A-13.0-13.5 |
| 🕇 | | | | | | | |
| 15 - | | 0.0 | wet to saturated | FILL | | CINDERS, and fine to medium sand, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining. | 10W-L41A-15.0-15.5 |
| -17 -18 -19 | 5 | | | | | | 10W-L41A-17.0-17.5 |
| 20 | | 0.0 | wet | FILL | | CINDERS, and fine to medium sand, trace debris, (7.5YR | 10W-L41A-19.0-19.5 |
| 21— | | | | | | 3/1) very dark gray, loose, wet, no odor, no staining. | 10W-L41A-21.0-21.5 |
| -22 -23 | 5 | 0.0 | dry to sl. moist | OL PT | | UNDorg SILT, 70% organic fibers, 30% organic silt, (7.5YR 3/2) dark brown, low plasticity, medium stiff, dry to slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 10W-L41A-21.5-22.0 |
| 4 | | | dry | | \(\frac{1}{2}\frac{1}{ | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-L41A

Project Name: PPG Garfield Ave Drilling Company: SGS
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610640.584

 Date Started Drilling:
 5/20/2014 9:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682396.83

 Date Finished Drilling:
 5/20/2014 11:05:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 25 ft

| ate Fi | nished Dri | ming. | 0/20/2017 | 11.00.007 | vi | re Size: 3.0 in | Boring Total Dep | |
|----------------------|-------------|---------|-----------|-----------|----------------|---------------------------------------|-----------------------------|------------------------------------|
| ogged | IBy: SS | | | | Pro | oject Manager: Scott Mikaelian | Depth to Water: | NA |
| ysica | al Location | n: 10 ' | West | | | | | (Note has a poloni around our for) |
| | | | | | | | | (Note bgs = below ground surface) |
| epth ange bgs) | Recovery | PID | Moisture | 11000 | Graphic | 0 1 0 | | Sample |
| ange | (ft/ft) | (ppm) | Content | USCS | Graphic Log | Surface Cover a | and Inickness: | Sample ID |
| bys) | ` ' | | | | | | | |
| | | | | | 71/ 71/ | moderate organic odor, no stair | ning. Soils consistent with | |
| | | | | | 1/ 1/1/ 1 | MM. | | |
| 25 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | ı | | | ND/MM confirmed to be 1 ft thick 3) N | | |

PPG - PPG_LOGS.GDT - 8/11/14 16:37

A=COM

PPG LOGS.GDT - 8/11/14 16:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-L43A

Page: 1

732.564.3200 office telephone

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610614.5

 Date Started Drilling:
 5/13/2014 12:20:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682343.2

 Date Finished Drilling:
 5/13/2014 1:20:00 PM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: 10 West Elevation: 11.6 ft NAVD88 Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** dry fine to medium SAND, little fine to medium gravel, little to 0.0 FILL 10W-L43A-0.5-1.0 to trace ash, trace wood debris, (10YR 4/2) dark grayish wet brown, medium dense, dry to wet, water table at 5.0 ft bgs. 5 10W-L43A-2.5-3.0 10W-L43A-4.5-5.0 0.0 wet **FILL** ASH, some cinders, little silty sand, trace wood debris, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining. 10W-L43A-6.5-7.0 10W-L43A-8.5-9.0 NR NO RECOVERY 0.0 10W-L43A-10.0-10.5 wet **FILL** ASH, and cinders, trace debris, (10YR 3/1) very dark gray, to loose, wet to saturated, no odor, no staining. 10W-L43A-10.5-11.0 saturated 5 0.0 FILL sandy SILT, trace ash, glass, (10YR 5/2) grayish brown, low 10W-L43A-12.5-13.0 moist -13 plasticity, soft, moist, no odor, no staining. 10W-L43A-14.0-14.5 0.0 10W-L43A-14.5-15.0 OL UNDorg SILT, 60% organic silt, 40% organic fibers, (10YR moist 5/2) grayish brown, low plasticity, soft, moist, moderate 0.0 OL moist organic odor, no staining. Soils consistent with UNDorg UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR -16 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. 5 -18 0.0 OL UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR moist 6/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. 19 20

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

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-M45A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610616.2 |
| Date Started Drilling: 5/28/2014 12:00:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 682283.7 |
| Date Finished Drilling: 5/28/2014 12:40:00 PM | Core Size: 3.0 in | Boring Total Depth: 15 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: 10 West | <u> </u> | Elevation: 11.4 ft NAVD88 |

| Depth | | | | | | | bgs = below ground surface) |
|------------------|---------------------|--------------|---------------------|----------------|------------------|--|-----------------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | ASPHALT | XXXX | ASPHALT | |
| _1 | | 0.0 | l diy | FILL | | fine to medium SAND, some ash, little crushed concrete, trace brick, trace debris, (7.5YR 2.5/2) very dark brown, | |
| ' | | | | | \bowtie | loose, dry, no odor, no staining. | 10W-M45A-1.0-1.5 |
| -2 | | | | | | · | |
| | 5 | | | | \bowtie | | |
| -3- | | | | | | | |
| _ | | | | | \bowtie | | 10W-M45A-3.0-3.5 |
| _4 | | | | | | | |
| · _ | | | | | \bowtie | | |
| -5 | | | | | | | |
| _ | | 0.0 | wet | FILL | | fine to medium SAND, and cinders, little fine to medium | 10W-M45A-5.0-5.5 |
| -6 | | | | | | gravel, (10YR 4/2) dark grayish brown, loose, wet, no odor, no staining, water table encountered at 5.5 ft bgs. Sheen | |
| _ | | | | | \bowtie | observed from 6.5 ft bgs to 8.0 ft bgs. | |
| -7 | | | | | | | 10W-M45A-7.0-7.5 |
| _ | 5 | | | | | | 10VV-IVI45A-7.0-7.5 |
| -8- | | 0.0 | 4 | | | fine to use divers OAND 1981 fine executed to see debate (7.5)/D | |
| _ | | 0.0 | wet to | FILL | \bowtie | fine to medium SAND, little fine gravel, trace debris, (7.5YR 6/3) light brown, loose, wet to saturated, no odor, no | |
| -9- | | | saturated | | | staining. | 10W-M45A-9.0-9.5 |
| _ | | | | | \bowtie | | 1011-111-07-0.0-0.0 |
| - 10 | | 0.0 | wet | FILL | | ASH, some debris, little fine to medium sand, (7.5YR 3/1) | |
| _ | | 0.0 | WEL | I ILL | | very dark gray, loose, wet, no odor, no staining. | |
| -11 | | | | | | | 10W-M45A-11.0-11.5 |
| _ | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR | 10W-M45A-11.5-12.0 |
| 12 | 5 | | | | | 3/2) dark brown, low plasticity, soft, moist, slight organic | |
| 40 | | | | | [-] | odor, no staining. Soils consistent with UNDorg. | |
| 13 | | | | | <u> </u> | | |
| 14 | | | | | | | |
| 14 | | 0.0 | dry | PT | 71/ 71/ | PEAT (degraded vegetated material), 80% organic fibers, | |
| -15 | | 0.0 | dry | OL | | 20% organic silt, (7.5YR 3/3) dark brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with | |
| 13 | | | | | | \\MM. / | |
| | | | | | | UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, dry, slight organic odor, | |
| | | | | | | no staining. Soils consistent with UNDorg. | |
| | | | | | | · | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | -4 1\ 2 offi | mnto w | oro mada ta | obtain boot ro | 1 (2) I | JND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval | of this having |

| | | ^ | | |
|----------|---|---|---|---|
| Δ | Ξ | | м | Л |
| | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 10W-P3BS-5+04-3R

Page: 1

Project Name: PPG Garfield Ave Drilling Company:

Project Number: 60580814 Drilling Method: Soft dia Coordinates (NJSPNAD83) x: 610641.35

| | | ^ | | 4 |
|---|--|---|---|---|
| Δ | | 0 | м | Л |

2012-09 RA PPG LOGS A.GDT - 8/1/22 14:46

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 10W-P3BS-5+15-40R

Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Project Number: 60580814 Coordinates (NJSPNAD83) x: 610679.2 Drilling Method: Soft dig Date Started Drilling: 5/19/2022 Rig Type: Coordinates (NJSPNAD83) y: 682660.59 Date Finished Drilling: 5/18/2022 Core Size: Boring Total Depth: 4.6 ft Depth to Water: Logged By: Alan Buob Project Manager: Aimee Ruiter Surface Elevation: 13.5 ft NAVD88 **Physical Location:** Depth Recovery PID Moisture Graphic Sample Range USCS Surface Cover and Thickness: (ft/ft) (ppm) Content Log ΙD (ft bgs) Soil Not Logged 10W-P3BS-5+15-40R-4.1-4.6 FILL Silty sand (SM), fine to medium, poorly graded, wet subangular, 25-35% silt and cobbles, 20-30% roots and ceramics, No CCPW [FILL] - 10YR 2/1 (black), wet - no odour, no staining - non-cohesive, loose to medium dense UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue MGP - manufactured gas plant GGM - green grey mud CCPW - chromate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 7/22/22 09:22

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 10W-P3BS-K38A-EX

Page: 1

| Project | t Name: F | DPC Ca | rfield Δνα | | ı | Drilling Company: | | Page: 1 |
|----------------------------|---------------------|--------------|---------------------|------------|----------------|--|-----------------------|----------------------------------|
| _ | t Number: | | | | | Orilling Method: | Coordinates (NJSP) | NAD83) x: 610666.58 |
| | tarted Dril | | | | | Rig Type: | Coordinates (NJSPN | |
| | | | 6/28/2021 | | | Core Size: Test Pit (within Excavation) | Boring Total Depth: | |
| Logge | | | O/LO/LOL I | | | Project Manager: Cameron Dixon | Depth to Water: | 21.116 |
| | al Locatio | n: | | | | Tojoot Managori Gameren Bixon | • | 15.1 ft NAVD88 |
| | | | | | | | | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ess: | Sample ID |
| | | | | | | Soil Excavated. Test pit begins on 9.1 ft b | 90 | |
| ⊢ - | | | | | | Soil Excavated. Test pit begins on 9.1 It b | gs | |
| L1 | | | | | | | | |
| L | | | | | | | | |
| | | | | | | | | |
| 2 | | | | | | | | |
| - | | | | | | | | |
| 3 | | | | | | | | |
| ├ - | | | | | | | | |
| <u> </u> | | | | | | | | |
| L | | | | | | | | |
| | | | | | | | | |
| 5 | 1 | | | | | | | |
| ├ - | † | | | | | | | |
| 6 | | | | | | | | |
| ⊢ – | 1 | | | | | | | |
| 7 | | | | | | | | |
| L _ | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 9 | | 0 | des | SM | 24236 | City and with group (CM) fine to madiu | m noorly graded | 10W-P3BS-K38A-EX-9.1-9.6 |
| ⊢ - | | " | dry | SIVI | | Silty sand with gravel (SM), fine to mediung subangular, 15-25% silt, 25-35% angular | | |
| 10 | | | | | | gravel, glass and Ash, No CCPW [FILL] | | |
| L – | | | | | | - 10YR 2/2 (very dark brown / dusky yello | owish brown), dry | |
| 11 | | | | | | - no odour, no staining | | |
| '' | | 0 | dry | SM | | - non-cohesive, loose to loose Silty sand with gravel (SM), fine to mediu | m poorly graded | 10W-P3BS-K38A-EX-11.1-11.6 |
| Γ | | | | | 1.71 | subangular, 15-25% silt, 25-35% subang | | - |
| 12 | | | | | | medium gravel, glass and Ash, No CCPW | /, metal, and plastic | |
| ├ - | - | | | | | debris [FILL] - 10YR 4/3 (brown), dry | | |
| 13 | 1 | | wet | SM | | - no odour, no staining | | 10W-P3BS-K38A-EX-13.1-13.6 |
| ├ - | | 0 | Wot | OIVI | | \ - non-cohesive, loose | | 10W-P3B5-K36A-EX-13.1-13.0 |
| 14 | | | | | | Silty sand with gravel (SM), fine to medium | | |
| L | | | | | | subangular, 15-25% silt, 25-35% subangu medium gravel, glass and Ash, 5-15% pe | | |
| | | | | | | medium gravei, glass and Asn, 5-15% per metal, and plastic debris [FILL] | at, INO COPVV, | |
| 15 | 1 | 0.2 | wet | SM | | - 10YR 2/1 (black), wet | | 10W-P3BS-K38A-EX-15.1-15.6 |
| ├ ⁻ | 1 | - | | | | | | - I |
| 16 | 1 | | | | | - cohesive, soft to medium stiff Silty sand with gravel (SM), fine to medium | m poorly graded | |
| <u> </u> | 1 | | | | | subangular, 15-25% silt, 25-35% subang | | |
| 17 | 1 | | 1 | CNA | | medium gravel, glass and Ash, 5-15% pe | | |
| L _ | 1 | 0.2 | wet | SM | | metal, and plastic debris [FILL] | | 10W-P3BS-K38A-EX-17.1-17.6 |
| 10 | | | | | | - 10YR 2/1 (black), wet - organics odour, no staining | [|] |
| 18 | | | | | | - organics odour, no staining - cohesive, soft to medium stiff | | |
| Γ - | 1 | | | | | Silty sand with gravel (SM), fine to mediu | | |
| 19 | † | 0.3 | wet | SM | NAMES OF | subangular, 15-25% silt, 25-35% subangu | | 10W-P3BS-K38A-EX-19.1-19.6 |
| ⊢ - | - | 0.3 | - | • | | medium gravel, glass and Ash, 5-15% per | at, No CCPW, | 13 1 3 1 3 1 3 1 3 1 3 1 3 1 |
| 20 | | | | | | metal, and plastic debris [FILL] - 10YR 2/1 (black), wet | | |
| L _ | _ | | | | | - organics odour, no staining | | |
| 21_ | | 0.2 | wet | SM | | - cohesive, soft to medium stiff | | 10W-P3BS-K38A-EX-20.6-21.1 |
| 21 | | | | | 7. 21 15. 7 | Silty sand with gravel (SM), fine to medium | | |
| | | | | | | subangular, 15-25% silt, 25-35% subangu medium gravel, peat, glass and Ash, No C | | |
| Notes: | I | I | 1 | | 1 | 11 Garain gravoi, pour, giass and Asii, No C | it, motal, and | 1 |
| bgs - be | | | | | cessing res | sidue UNDno - non-organic undisturbed native de | | ufactured gas plant |
| MM - me | eadow mat | | GGM - gree | n grey mud | | UNDorg - organic undisturbed native depos | sits CCPW - chr | romate chemical production waste |
| John Herits. | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 10W-P3BS-K38A-EX

Page: 2

| | Name: F | | | | | | g Company: | | | | | = |
|----------------------------|---------------------|--------------|---------------------|-----------------|---------------|----------|--|---|--|---------------|---------------|---------------------------------|
| | Number: | | | | | | g Method: | | | | | IAD83) x: 610666.58 |
| | arted Drill | | | | | Rig Ty | pe: | | | | | AD83) y: 682508.7 |
| Date Fi | nished Dr | illing: | 6/28/2021 | | | | Size: Test P | | | | tal Depth: | 21.1 ft |
| Logged | | | | | | Projec | t Manager: | Cameron D | Dixon | Depth to V | | |
| Physic | al Location | n: | | | | | | | | Surface E | levation: | 15.1 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | С | | Surface Co | over and Thickne | ess: | | Sample ID |
| Notes: bgs - bel | ow surface | grade | COPR - chr | omite ore proce | essing r | SS sm pp | ubangular, 15 ledium gravel lastic debris [10YR 2/1 (bi organics odd cohesive, so | lack), wet our, no stain ft to medium gravel (SM) 5-25% sitt, 2 , peat, glass FILL] lack), wet our, no stain ft to medium | n stiff), fine to mediun 5-35% subangu s and Ash, No C | llar, fine to | al, and | factured gas plant |
| IVIIVI - IIIE | auuw IIIdl | | יויטטי - gree | ar grey muu | | | OINDOIN - OLD | ฉะแบ นาเนเรเนิโ | bed hative depos | າເວ | OOF VV - CITE | omate onemical production waste |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 7/22/22 09:22

| ENSR | AECOM | Client: | PPG Industries | | | | ING ID: |
|------------|-------------------|----------------------------|--|--------|--------------------|----------------------|------------------------|
| ENSK | AECUM | Site: | Site 133 | | | 13 | 33-B6 |
| Start Da | te: | Project: | Site Investigation | | | Page: 1 of 4 | ļ |
| 12/7/200 | | Coordinat | es: X-610753.2 Y-682 | 2262.7 | , | Depth of Bo | |
| End Date | | | : 10.8 ft NAVD88 | | | | P. Kelly, M. Merdinger |
| 12/13/20 | | Drill Subc | ontractor: Eichelberger/Terra | | <u> </u> | | th Kneller |
| Depth (ft) | Lithology | | Description, | | PID (PPm) | Sample ID | Sample Parameters |
| 0_ | | | | | | | |
| | X X ASF | PHALT: Stree | et level ASPHALT | / | | | |
| | × × FILI | _: Gray medi | um COBBLES and coarse GRAVE | EL. | 4.0 | 133-B6A | Cr+6, TAL Metals |
| _ | × × FILI × × pied | | SAND, some fine Gravel, little Coa | al | 1.2 ppm | (0.7-1.2) | CI+O, TAL Metals |
| | × × × | | | | | | |
| 2+ | | _: Dark Gray ck Sand. | medium-sized COBBLES, some fi | ine | 0.0 ppm 2.7 ppm | 133-B6B | Cr+6, TAL Metals |
| | × × × Blad | K Sanu. | | / | 2.7 ppiii | (2.1-2.6) | OTTO, TAE MOIGIO |
| | | | GRAVEL, some fine Sand and Ash anic material. | h, | | | |
| | × × × FILI | _: BRICK, so | me Black medium Sand. | | 1.4 ppm | 133-B6C (3.1-3.6) | Cr+6, TAL Metals |
| 4— | | | ium GRAVEL, some Fill Material (a fine gravel-sized slag, ceramics). | ash, | | | |
| | ××× FILI | _: Blocky, me | edium cobble-sized SLAG | | 1.7 ppm | 133-B6D (4.2-4.7) | Cr+6, TAL Metals |
| | | _: Green-grag vel, wet. | y SILT and CLAY, some fine to coa | arse | 0.0 ppm | | |
| 6— | × × med | | n (7.5YR 4/2) silty CLAY, little fine nd small angular Gravel, medium s | stiff, | 0.0 ppm | | |
| | BRI | CK: Whole B | rick layer | | ото рр | | |
| | fine Fill | to coarse sil | n (7.5YR 4/2) and Brown (7.5YR 4 ty SAND, little small angular Grave Ils, coal fragments), medium dens | el, | | | |
| 8— | NR: | No Recover | у | | N1/4 | 133-B6E | Cric TAI Matala |
| | × × Silt, | | (R 5/1) small angular GRAVEL, so (ash, ceramics, coal, brick), loose, | | N/A | (8.0-8.5) | Cr+6, TAL Metals |

| ENCD | AECOM | Client: PPG Industries | | | NG ID: |
|------------|-----------|---|---------------|---|-----------------------------------|
| ENSR | AECOM | Site: Site 133 | | 133 | 3-B6 |
| Start Dat | te: | Project: Site Investigation | | Page: 2 of 4 | |
| 12/7/200 | | Coordinates: X-610753.2 Y-682262 | .7 | Depth of Bor | ing: 36.00 |
| End Date | e: | Elevation: | | P. Kelly, M. Merdinger | |
| 12/13/20 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporat | ed Driller: Heat | |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | h Kneller Sample Parameters |
| 10- | Ox Ox Gra | L: Reddish Brown (2.5YR 5/3) SILT, trace angular avel, medium dense, moist. No odor. | | | |
| - | | L: Reddish Brown (5YR 4/3) clayey SILT, little arse Sand, loose, wet. No odor. | N/A | 133-B6F (12.0-13.0) 133-B6FD (12.0-13.0) | Cr+6, TAL Metals Cr+6, TAL Metals |
| 14 — | | AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. | | 133-B6G (13.9-14.4) | Cr+6, TAL Metals |
| 16 — | | : No Recovery | NI/A | | |
| | PE Org | AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. AT: Very Dark Gray (Gley N3/) organic CLAY, little ganics, medium stiff, moist. Sulfur odor. | N/A | | |
| 18— | | | _ | 133-B6H (18.0-18.5) | Cr+6, TAL Metals |

| ENCD AECOM | Client: PPG Industries | | BORIN | | | |
|---|---|-----------|---|------------------------------------|--|--|
| ENSR AECOM | Site: Site 133 | | 133 | 8-B6 | | |
| Start Date: 12/7/2006 End Date: 12/13/2006 | Project: Site Investigation Coordinates: X-610753.2 Y-682262 Elevation: Drill Subcontractor: Eichelberger/Terra Pro | · · | Depth of Boring: 36.00 Geologist: P. Kelly, M. Merdinger | | | |
| Depth (th) | Description | PID (bbu) | Sample ID | Kneller Sample Parameters | | |
| 20 — ### PE## Me## PE## Org 22 — ### SAI me## NR 24 — ### PE## Me## PE## Org CL## trace odd SAI SAI | 2: No Recovery AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. AT: Very Dark Gray (Gley N3/) organic CLAY, trace ganics, medium stiff, moist. Sulfur odor. ND: Gray (Gley N5/) very fine SAND, some Silt, dium stiff, moist. No odor. 2: No Recovery AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. AT: Very Dark Gray (Gley N3/) organic CLAY, trace ganics, medium stiff, moist. Sulfur odor. AY: Light Greenish Gray (Gley 5GY 7/1) silty CLAY, ce small angular Gravel, medium stiff, moist. No | N/A | 133-B6I (22.0-22.5) | Cr+6, TAL Metals Cr+6, TAL Metals | | |

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|--------------------------|--|-----------------|----------------|--------------------------------|
| ENSK AECOM | Site: Site 133 | 133 | 3-B6 | |
| Start Date: 12/7/2006 | Project: Site Investigation | | Page: 4 of 4 | |
| | Coordinates: X-610753.2 Y-682262. | / | Depth of Borin | |
| End Date: 12/13/2006 | Elevation: | | | . Kelly, M. Merdinger |
| | Drill Subcontractor: Eichelberger/Terra Prob | pe incorporated | Driller: Heath | n Kneller |
| Depth (ft) Lithology | Description | PID (PPM) | Sample ID | Sample Sample Parameters |
| 30 — SAN trac GRA | ND: Weak Red (10R 4/2) fine to coarse SAND, the small rounded Gravel, trace Silt, (28.6-28.8 ft bgs AVEL) loose, wet. No odor. | N/A | | |
| | : No Recovery | | | |
| NUI 36 [⊥] \NUI | LL: End of Boring at 36 ft. | · · | | |

| ENCD | AECOM | Client: PPG Industries | | BORIN | |
|------------|--|--|-----------------|----------------------|-----------------------------|
| ENSR | AECOM | Site: Site 133 | 133 | B-B7 | |
| Start Dat | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/7/200 | 06 | Coordinates: X-610689.1 Y-682200 | .0 | Depth of Boria | ng: 32.00 |
| End Date | e: | Elevation: 10.5 ft NAVD88 | | | . Kelly, M. Merdinger |
| 12/13/20 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0_ | × × \ AS | PHALT: Street level ASPHALT | | | |
| | × × FIL | L: Gray coarse GRAVEL | 1.5 ppm | 133-B7A | Cr+6, TAL Metals |
| | | L: Black coarse SAND, some fine Gravel, little dium Gravel and Coal pieces. | | (0.8-1.3) | |
| 2+ | BR | ICK: Whole Brick layer | | 133-B7B | Cr+6, TAL Metals |
| | | L: Black coarse SAND, some Ash, Green-gray fine nd lenses. Heavy petroleum odor. | 118.0 ppm | (2.3-2.8) | |
| 4— | × × × × × × | | 400.0 | 400 070 | |
| - | Mat | L: Black coarse SAND, some coarse Gravel, Fill terial (wood, ceramics), loose, wet. Heavy roleum odor. | 138.0 ppm | 133-B7C (4.5-5.0) | Cr+6, TAL Metals |
| 6— | (as | L: Brown (10YR 5/3) SILT, trace Clay, Fill Material h, ceramics, weathered stones, gravel-mix), wet. odor. | | | |
| | NR | : No Recovery | | | |
| 8- | | L: Brown (10YR 5/3) SILT, trace Clay, Fill Material h, ceramics, weathered stones, gravel-mix), wet. | N/A | | |
| | ××× | odor. L: Reddish Brown (5YR 4/3) very fine to fine silty | | 133-B7D (8.5-9.5) | MS/MSD, Cr+6, TAL Metals |
| 10 — | $\hat{\times} \times \hat{\times}$ SAI | ND, little small angular Gravel, mottling to a Dark own, loose, wet. No odor. | | | |
| | NR | : No Recovery | | | |

| ENSR AEC | Client: PPG Industries | BORING ID: |
|--|--|--------------------------------------|
| ENSK ALC | Site: Site 133 | 133-B7 |
| Start Date: | Project: Site Investigation | Page: 2 of 3 |
| 12/7/2006 | Coordinates: X-610689.1 Y-682200.0 | Depth of Boring: 32.00 |
| End Date: | Elevation: | Geologist: P. Kelly, M. Merdinger |
| 12/13/2006 | Drill Subcontractor: Eichelberger/Terra Probe Incorpo | orated Driller: Heath Kneller |
| Debth (41) | Description PID (bbu) | Sample ID Sample Sample |
| 12 — XXXX XXX 14 — 14 — 14 — 16 — 16 — | medium stiff. Sulfur odor. NR: No Recovery | 133-B7E |
| 18 — — — — — — — — — — — — — — — — — — — | | 133-B7F (16.5-17.0) Cr+6, TAL Metals |
| 20 | trace Organics/Peat, medium stiff, moist. Sulfur odor. | 133-B7G Cr+6, TAL Metals (20.5-21.0) |

 $\underline{\textbf{NOTES:}} \quad \text{Coordinates are provided in New Jersey State Plane NAD 1983 Feet.}$

| ENSR AECON | Client: PPG Industries | | BORIN | |
|--------------------|--|-----------------|----------------|-----------------------|
| LINSK ALCON | Site: Site 133 | 133-B7 | | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/7/2006 | Coordinates: X-610689.1 Y-682200 | .0 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: | | Geologist: P | . Kelly, M. Merdinger |
| 12/13/2006 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Debty (41) | Description | PID (PPm) | Sample ID | Sample Parameters |
| 22 + | | | 133-B7H | Cr+6, TAL Metals |
| 工工工工 si | LTY SAND: Dark Gray (5YR 4/1) very fine to fine ity SAND, little to trace small rounded Gravel and Silt, ose, wet. No odor. | | (22.3-22.8) | |
| 24 + N | R: No Recovery | N/A | | |
| G S | LTY SAND: Dark Gray (5YR 4/1) and Dark Greenish ray (Gley 5GY 4/1) mottled, very fine to fine silty AND, little to trace small rounded Gravel and Silt, edium dense, dry. No odor. | | | |
| 20 T SA | AND: Reddish Brown (2.5YR 4/3) fine to coarse AND, little to trace small rounded Gravel and Silt, ose, wet. No odor. | | | |
| | R: No Recovery | | | |
| | AND: Reddish Brown (2.5YR 4/3) very fine to fine AND, little Silt, loose, wet. No odor. | N/A | | |
| 30 — | | | | |
| | R: No Recovery | | | |
| 32 \(\bigcup_N | ULL: End of Boring at 32 ft. | | | |

| ENSR | AECON | Client: PPG Industries | | | ING ID: |
|------------------|--|---|-----------|----------------------|-----------------------------|
| LIVSIK ALCOIVI | | Site: Site 133 | 133-B8 | | |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 2 | |
| 1/5/2007 | • | Coordinates: X-610752.7 Y-682193 | 3.6 | Depth of Bo | ring: 16.00 |
| End Dat | e: | Elevation: 12.1 ft NAVD88 | | | M. Merdinger |
| 1/5/2007 | | Drill Subcontractor: Terra Probe Incorpora | | Driller: Hea | th Kneller |
| Sebty (41) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0 | ×××××× ×××××× ×××××× ×××××× C0 | ONCRETE: Concrete floor | | | |
| _ | | LL: Black TOPSOIL and Fill SAND, Fill Material eramics, plastic), loose, moist. No odor. | | 133-B8A (0.7-1.2) | Cr+6, TAL Metals |
| | × × BI | RICK: Brick and Concrete pieces. | | | |
| 2— | ĺ^×^× (g | LL: Dark Brown (7.5YR 3/3) SILT and fine FILL lass, ceramic, brick, concrete, coal), loose, dry. No dor. | | | |
| - | NI | R: No Sample | | | |
| 4— | ^×^× FI | LL: Dark Brown (7.5YR 3/3) SILT and fine FILL | 0.0 ppm | | |
| | × × (g × × × | lass, ceramic, brick, concrete, coal), loose, dry. No dor. | | | |
| | × × × FI | LL: Black-stained SILT and GLASS LL: Dark Brown (7.5YR 3/2) SILT, trace Clay, Fill aterial (gravel, brick), loose, moist. No odor. | 4.0 ppm | 133-B8B (5.0-6.0) | MS/MSD, Cr+6, TAL Metals |
| 6— | × × ve | LL: Very Dark Gray (10R 3/1) to Black SILT, some ery fine Sand, some fine Fill Material (ash, shell, ick, glass), Coal tar, loose, wet. Naphthalene and aint thinner odor. | 9.0 ppm | | |
| | NI | R: No Recovery | | | |
| 8+ | ХХГ | LL: Very Dark Gray (10R 3/1) to Black SILT, some | 0.0 ppm | | |

| ENSR AECON | | Client: PPG Industries | | BORING ID: | | |
|------------|---|---|-----------------|---|------------------------------------|--|
| ENSK | AECOM | Site: Site 133 | 13 | 3-B8 | | |
| Start Dat | e: | Project: Site Investigation | | Page: 2 of 2 | | |
| 1/5/2007 | | Coordinates: X-610752.7 Y-682193 | .6 | Depth of Box | ring: 16.00 | |
| End Date |) : | Elevation: | | Geologist: | M. Merdinger | |
| 1/5/2007 | | Drill Subcontractor: Terra Probe Incorporat | ed | Driller: Hea | th Kneller | |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | th Kneller Sample Parameters | |
| 10 — | × × × bric pail × × × × FIL × × × × der × × × × FIL × × × wet × × × × wet × × × × | y fine Sand, some fine Fill Material (ash, shell, ck, glass), Coal tar, loose, wet. Naphthalene and nt thinner odor. L: Olive Brown (2.5Y 4/3) and Weak Red (10R 4/4) ttled SILT and very fine SAND, little Clay, medium nse, moist. No odor. L: Grayish Brown (2.5Y 5/2) SILT and ASH, some e Fill Material (gravel, shells, rubber, sand), loose, t. No odor. L: No Recovery | 7.5 ppm 3.5 ppm | 133-B8C (9.0-10.0) 133-B8CD (9.0-10.0) | Cr+6, TAL Metals Cr+6, TAL Metals | |
| 12 — | × × × fine wel | L: Grayish Brown (2.5Y 5/2) SILT and ASH, some e Fill Material (gravel, shells, rubber, sand), loose, t. No odor. L: Dark Gray (2.5Y 4/1) very fine sandy SILT, trace e Gravel, loose, wet. No odor. | N/A | 133-B8D (13.0-13.5) | Cr+6, TAL Metals | |
| 14 — | × × × FIL little | L: Gray (2.5Y 5/1) SILT and crushed CONCRETE, e to trace Sand, loose, wet. No odor. AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. : No Recovery | | (13.0-13.5) 133-B8E (13.5-14.0) | Cr+6, TAL Metals | |
| 16 🕹 🗎 | NII I | LL: End of Boring at 16 ft. | | | | |

| ENCD AECOL | Client: PPG Industries | | BORIN | G ID: |
|---------------------------------------|--|------------|-----------------------|-----------------------------|
| ENSR AECON | Site: Site 133 | | 13 | 3-B19 |
| Start Date: | Project: Site Investigation | | Page: 1 of | 3 |
| 12/7/2006 | | Y-682367.7 | <u> </u> | oring: 32.00 |
| End Date: 12/15/2006 | Elevation: 11.9 ft NAVD88 Drill Subcontractor: EB/TPI | | Geologist: Driller: | P. Kelly, M. Merdinger |
| | | | νΩ | |
| Debty (4) Tithology | Description | PID | Sample ID | Sample Parameters |
| | SPHALT: Street level ASPHALT | | | |
| | ILL: Gray medium GRAVEL Rock (Sub-surface lacadam), dry. | 30.0 ppm | 133-B19A (0.9-1.4) | Cr+6, TAL Metals |
| | ILL: Red-brown fine gravel-sized COPR (50%), some ne Sand, dry. | | (0.9-1.4) | |
| × × × × × × × × × × × × × × × × × × × | | | | |
| | ILL: Gray-green SILT cohesive lenses, little Slag and ne Gravel, moist. | 26.1 ppm | 133-B19B (3.2-3.7) | Cr+6, TAL Metals |
| | ILL: Dark Reddish Gray (5YR 4/1) SILT and GRAVEL, Fill Material (brick, concrete, coal, ceramics), | 0.0 ppm | 100 0100 | |
| | ttle medium to coarse Sand, Bright Green staining, % COPR, wet. No odor. (WASTE MUD) | 0.0 ppm | 133-B19D (4.5-5.0) | Cr+6, TAL Metals |
| | ILL: Reddish Brown (5YR 4/3) SILT, trace Clay and oarse Sand, wet. No odor. | | | |
| | IR: No Recovery | | | |
| - | | | | |
| | ILL: Black SILT and medium GRAVEL, Fill Material wood, coal), wet. No odor. | 0.1 ppm | | |
| - × × F | ILL: Red (2.5YR 4/6) SILT, little very fine to fine Sand, ace angular Gravel, Fill Material (ceramics, metal nachine parts), wet. No odor. | 0.2 ppm | 133-B19E (8.5-9.5) | MS/MSD, Cr+6, TAL Metals |
| C | ILL: Pale Red (2.5YR 6/2) SILT, some medium to oarse Sand, yellow staining, loose, wet. No odor. WASTE MUD) | | | |
| | ILL: Red (2.5YR 4/6) SILT, little very fine to fine Sand, ace small angular Gravel, Wood, wet. No odor. | | | |

| - L - C - C - C - C - C - C - C - C - C | Client: PPG Industries | | BORI | NG ID: |
|---|--|----------|-------------------------|---------------------------|
| ENSR AECC | Site: Site 133 | | 1: | 33-B19 |
| Start Date: | Project: Site Investigation | | Page: 2 d | of 3 |
| 12/7/2006 | Coordinates: X- Y- | | Depth of | Boring: 32.00 |
| End Date: | Elevation: | | Geologis | t: P. Kelly, M. Merdinger |
| 12/15/2006 | Drill Subcontractor: EB/TPI | | Driller: | |
| Debty (4) | Description . | PID | Sample ID | Sample Parameters |
| | NR: No Recovery | | | |
| 12 — × × × × × × × × × × | FILL: Black, Red-brown, White, Yellow, and Brown crushed COAL and CERAMICS, trace Silt, loose, wet. No odor. | 0.2 ppm | | |
| | FILL: Weak Red (2.5YR 4/2) SILTY CLAY, trace Wood Material, semi-firm, wet. No odor. | | 133-B19F (13.1-13.6) | Cr+6, TAL Metals |
| 14 — | PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor. | | | |
| - | NR: No Recovery | | | |
| 16 — | PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor. | 0.3 ppm | | |
| | | 0.3 ppm | 133-B19G (17.0-17.5) | Cr+6, TAL Metals |
| 18 + 4 | | 2.6 ppm | | |
| | NR: No Recovery | | | |
| 20 — | PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor. | 25.0 ppm | | |
| T T | | 47.0 ppm | 133-B19H (21.0-21.5) | Cr+6, TAL Metals |
| 22 — | | 21.0 ppm | | |

| ENCD AFCON | Client: PPG Industries | | BORING ID: |
|---|---|---------------|--|
| ENSR AECON | Site: Site 133 | | 133-B19 |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 |
| 12/7/2006 | Coordinates: X- Y- | | Depth of Boring: 32.00 |
| End Date: | Elevation: | | Geologist: P. Kelly, M. Merdinger |
| 12/15/2006 | Drill Subcontractor: EB/TPI | т т | Driller: |
| Depih (fit) Lithology | Description | PID So | Driller: Sample Sample Parameters |
| | CLAY: Dark Greenish Gray (Gley 5GY 4/1) SILTY CLAY, trace very fine Sand, Micaceous, firm, wet. | 12.0 ppm 1 (2 | 33-B19l Cr+6, TAL Metals 3.0-23.5) |
| 24 | IR: No Recovery | 20.3 ppm | |
| | CLAY: Dark Greenish Gray (Gley 5GY 4/1) SILTY CLAY, trace very fine Sand, Micaceous, loose, wet. sulfur odor. | 16.1 ppm | |
| 1 26 1 T | SILT: Dark Grayish Brown (10YR 4/2) SILT, little to race Clay, trace Organics, very firm, moist. Sulfur dor. | 5.7 ppm | |
| - N | IR: No Recovery | 1.3 ppm | |
| 1 | SILTY SAND: Gray (10YR 5/1) very fine SILTY SAND, rm, moist. No odor. | 0.2 ppm | |
| | AND: Weak Red (10R 4/4) fine SAND, trace Pebbles nd Silt, semi-firm, wet. No odor. | 0.0 ppm | |
| 30 — | IR: No Recovery | | |
| 32 | IULL: End of Boring at 32 ft. | | |

 $\underline{\textbf{NOTES:}} \quad \text{Coordinates are provided in New Jersey State Plane NAD 1983 Feet.}$

| ENICD | ECO14 | Client: PPG Industries | | | | | BORING ID: | | |
|-------------|---------|-------------------------------|--|------------|--------------|-------|--------------------|-----------------------------|------------------|
| ENSR A | ECOM | Site: | Site 133 | | | | 1: | 33-B20 | |
| Start Date: | | Project: | Site Investigation | | | | Page: 1 c | of 3 | |
| 12/11/2006 | | Coordinat | es: X-610835.8 | Y | -682412.2 | | • | Boring: 32.00 | |
| End Date: | | | 11.9 ft NAVD88 | | | | | : P. Kelly, M. Merdinger | |
| 12/18/2006 | | Drill Subc | ontractor: EB/TPI | | | | Driller: | | |
| Depth (ft) | logy | | Description | | PID | San | nple ID | Sample Parameters | |
| | ×× | PHALT: Stree | et level ASPHALT | | | | | | |
| - × | × × FIL | | se GRAVEL, some Silt and I | fine Sand, | 138.0 ppm | | 3-B20A .7-1.2) | Cr+6, TAL Metals | |
| × | | L: Black cohe . Strong odo | esive ORGANICS, some fine r. | Gravel, | 300.0 ppm | | 3-B20B .5-2.4) | Cr+6, TAL Metals | |
| 2— × × × × | | | gravel-sized COPR (75%), li etroleum odor. | ttle | 325.0 ppm | 325.0 | | | |
| _ × | | | n fine SAND, some fine to co gravel-sized COPR (12%). | arse | | | | 3-B20C .9-3.4) | Cr+6, TAL Metals |
| 4 | | | SAND, some Clay, little fine ium gravel-sized Slag. | to coarse | 13.5 ppm | | 3-B20D .5-4.0) | MS/MSD, Cr+6, TAL Metals | |
| × × × | | dium Gravel, | SAND, little Clay and Silt, litt 20% COPR, wet. Slight nap | | | | | | |
| 6— | NR | : No Recover | у | | | | | | |
| - | | | | | | | | | |
| 8- | | | , little Clay, trace fine Sand, | | 9.1 ppm | | 3-B20E .0-9.0) | Cr+6, TAL Metals | |
| × | × × | i. iiiipacieu v | vith Coal Tar. Naphthalene (| Juul. | | | -B20ED .0-9.0) | Cr+6, TAL Metals | |
| × × × | × × coa | rse Gravel, li | ium to coarse SAND, some title Silt and Clay, sheen, we oal Tar. Naphthalene odor. | | 13.4 ppm | | · | | |
| 10 + × | × | : No Recover | · | | 18.7 ppm | | 3-B20F .0-10.5) | Cr+6, TAL Metals | |
| | | | • | | | | | | |

| ENCD AECON | Client: PPG Industries | | BORII | NG ID: |
|--|---|-----------|-------------------------|-----------------------------|
| ENSR AECON | Site: Site 133 | | 13 | 33-B20 |
| Start Date: | Project: Site Investigation | | Page: 2 o | f 3 |
| 12/11/2006 | Coordinates: X- Y- | | | Boring: 32.00 |
| End Date: 12/18/2006 | Elevation: Drill Subcontractor: EB/TPI | | Geologist Driller: | P. Kelly, M. Merdinger |
| | ann | | ND | 10 2015 |
| Debty (41) | Description | PID | Sample ID | Sample Parameters |
| - | | | 133-B20G (11.1-11.6) | Cr+6, TAL Metals |
| | | | , | |
| | FILL: Dark Grayish Brown (10YR 4/2) SILT and CLAY, rm, moist. Naphthalene odor. | 0.4 ppm | | |
| ××× | | | 400 B 0011 | M0/40D 0 0 744 |
| fil | PEAT: PEAT (Meadow Mat), some Organics, moist, rm. Sulfur odor. | 0.1 ppm | 133-B20H (13.0-14.0) | MS/MSD, Cr+6, TAL Metals |
| 14 + | | 0.3 ppm | | |
| | IR: No Recovery | 1 | | |
| | | | | |
| | PEAT: Very Dark Gray (10YR 4/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor. | 0.2 ppm | | |
| - 1 | | 0.2 ppm | 133-B20l (17.0-17.5) | Cr+6, TAL Metals |
| 18 + 11 | | | | |
| P | PEAT: PEAT (Meadow Mat), some Organics, moist, rm. Sulfur odor. | _ 1.8 ppm | | |
| | IR: No Recovery | | 133-B20J (18.8-19.3) | Cr+6, TAL Metals |
| | | | | |
| | PEAT: Dark Gray (10YR 4/1) organic CLAY, little Organic/Peat material, firm, moist. Sulfur odor. | 1.9 ppm | | |
| TT | | 0.2 ppm | | |

| ENCD | AECO1 | Client: PPG Industries | | BORII | |
|------------|--|--|----------|------------|------------------------|
| ENSR | AECOM | Site: Site 133 | | 13 | 33-B20 |
| Start Da | te: | Project: Site Investigation | | Page: 3 o | f 3 |
| 12/11/20 | 006 | Coordinates: X- Y- | | Depth of E | Boring: 32.00 |
| End Date | e: | Elevation: | | | P. Kelly, M. Merdinger |
| 12/18/20 | 06 | Drill Subcontractor: EB/TPI | | Driller: | |
| Depth (ft) | Lithology | Description | PID | ample ID | Sample Parameters |
| 22+ | TT | | 12.5 ppm | | |
| _ | | AND: Dark Greenish Gray (5GY 4/1) very fine SAND, ome Silt, loose, wet. Sulfur odor. | 0.3 ppm | | |
| 24 — | | ILT: Dark Greenish Gray (5GY 4/1) SILT, some Clay, ose to firm, wet to moist. No odor. | 8.7 ppm | | |
| 30 | | | 3.6 ppm | | |
| 26 — | | AND: Greenish Gray (5GY 5/1) very fine to medium AND, some Silt, loose, wet. No odor. | 7.4 ppm | | |
| | | AND: Weak Red (10R 4/4) medium to coarse SAND, ome Clay, trace Silt, wet. No odor. | 0.0 ppm | | |
| 28 — | N | R: No Recovery | 0.0 ppm | | |
| | | AND: Weak Red (10R 4/4) medium to coarse SAND, ome Clay, trace Silt, wet. No odor. | , | | |
| | | AND: Weak Red (10R 4/4) fine to coarse SAND, ace Silt, loose, wet. No odor. | 0.0 ppm | | |
| 30 — | | | 0.0 ppm | | |
| | | | 0.0 ppm | | |
| 1 32 ⊥ | N | ULL: End of Boring at 32 ft. | | | |

| ENCD | 1500 | Client: PPG Industries | | | BORIN | IG ID: |
|------------|--|---|-----------------------------------|-----|------------------------------|--------------------------------------|
| ENSR | AECO | Site: Site 133 | | | 13 | 33-B21 |
| Start Da | te: | Project: Site Investigation | | | Page: 1 of | 3 |
| 12/8/200 | | Coordinates: X- 610722.7 | Y-682342.9 | 1 | <u> </u> | Boring: 32.00 |
| End Dat | | Elevation: 11.8 ft NAVD88 | | | | P. Kelly, M. Merdinger |
| 12/15/20 | | Drill Subcontractor: EB/TPI | | | Driller: | |
| Depth (ft) | Lithology | Description | PID | Sal | mple ID | Sample Parameters |
| 0 | ^ ^ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | TOPSOIL: Black Topsoil, dry. | | | | |
| | ^ × ^ × | CONCRETE: Concrete Pad. | | | | |
| | ^ x ^ x x x x x x x x x | FILL: Dark Brown fine GRAVEL, some coarse Gravel and coarse Sand, dry. Strong petroleum odor. | 553.0 ppm | | 33-B21A 1.0-1.5) | Cr+6, TAL Metals |
| 2+ | ××× | CONCRETE: Concrete Pad. | | | | |
| | × × × × × × | FILL: Black fine SAND, some fine to coarse Gravel, dry. Strong petroleum odor. | 846.0 ppm | | 33-B21B 2.1-2.6) | Cr+6, TAL Metals |
| 4— | × × × × × × × × × × × × × × × × × × × | FILL: Gray to Black-stained fine GRAVEL, some woody Organics, medium Sand and Silt, dry. Strong petroleum odor. FILL: Reddish Gray (5YR 5/2) SILT and GRAVEL, Fill Material, Bright Green staining, 10% COPR, wet. No odor. (WASTE MUD) NR: No Recovery | 654.0 ppm 5.0 ppm 8.2 ppm 4.5 ppm | | 21C(4.5-5.0) 1CD(4.5-5.0) | Cr+6, TAL Metals Cr+6, TAL Metals |
| 8 | ×^x^ ^x^x × x × x | FILL: Black SILT and WOOD, Fill Materail, little medium to coarse Sand, wet. No odor. FILL: Dark Brown (7.5YR 3/2) SILT, some very fine | 0.1 ppm | | 3-B21D 3.5-9.0) | Cr+6, TAL Metals |
| | × × × × × × × × × × × × × × × | Sand, Fill Material (wood, brick, slag, rock fragments), little medium semi-round Gravel, wet. No odor. FILL: Dark Brown (7.5YR 3/3) SILTY SAND, crushed | 0.9 ppm | | | |
| 10 — | | Fill Material (brick, ceramics, shells), wet. No odor. | | | | |
| | | NR: No Recovery | | | | |

| ENICD AEC | BORI | BORING ID: | | | |
|--|--|-------------------------------|---|-----------------------------------|--|
| ENSR AECO | Site: Site 133 | | 133-B21 | | |
| Start Date: | Project: Site Investigation | | Page: 2 | of 3 | |
| 12/8/2006 | Coordinates: X- Y- | | | Boring: 32.00 | |
| End Date: 12/15/2006 | Elevation: | | | t: P. Kelly, M. Merdinger | |
| | Drill Subcontractor: EB/TPI | 1 1 | Driller: | T | |
| Depth (ft) Lithology | Description | PID | Sample ID | Sample Parameters | |
| 12 — × × × × × × × × × × × × × × × × × × | | 1.4 ppm 0.9 ppm 0.6 ppm | 133-B21E (12.4-13.4) 133-B21ED (12.4-13.4) | Cr+6, TAL Metals Cr+6, TAL Metals | |
| | NR: No Recovery | | | | |
| 16 + | PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, trace Silt, semi-firm, wet. Sulfur odor. | 0.1 ppm | 133-B21F (16.5-17.0) | Cr+6, TAL Metals | |
| | | 0.2 ppm | | | |
| 18 + | | 0.1 ppm | | | |
| | | 0.2 ppm | | | |
| | NR: No Recovery | | | | |
| 20 + | PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor. | 0.6 ppm | 133-B21G (20.5-21.0) | Cr+6, TAL Metals | |
| TT TT | | 12.3 ppm | · · · · · · · · · · · · · · · · · · · | | |

| ENSR | AECO | Client: PPG Industries Site: Site 133 | | | NG ID: 33-B21 |
|-----------------------|-----------|--|--------------------|-------------------------|---------------------------|
| Ctort Do | to: | Project: Site Investigation | | Dogo: 2 | -t 2 |
| Start Dat 12/8/200 | | Coordinates: X- Y- | | Page: 3 o | |
| End Date | | | | | Boring: 32.00 |
| 12/15/20 | | Elevation: | | | t: P. Kelly, M. Merdinger |
| I | | Drill Subcontractor: EB/TPI | | Driller: | |
| Depth (ft) | Lithology | Description | PID | Sample ID | Sample Parameters |
| 22 — | | CLAY: Greenish Gray (Gley 5GY 5/1) SILTY CLAY, trace very fine Sand, semi-firm, wet. Sulfur odor. | 47.5 ppm | 133-B21H (22.0-22.5) | Cr+6, TAL Metals |
| | | NR: No Recovery | 10.3 ppm | | |
| 24 — | | NR: No Sample taken - Broken acetate liner. Visually: Gray Silty Sand and Red-brown coarse to medium Sand. | N/A | | |
| 26 — | | | 0.2 ppm | | |
| | | SAND: Weak Red (10R 4/4) fine to medium SAND, trace Silt and Pebbles, wet. No odor. | 0.3 ppm | | |
| | | | 0.4 ppm | | |
| 30 + | | | 1.3 ppm 3.0 ppm | | |
| 32 | | NR: No Recovery | | | |
| J <u>L</u> | | NULL: End of Boring at 32 ft. | | | |

| ENICD | A E COL | Client: | PPG Industries | | | BORI | NG ID: |
|-----------------------|---------------------------------------|------------------------------------|--|------------|-----------|-----------------------|---------------------------|
| ENSR | AECOM | Site: | Site 133 | | | 1: | 33-B22 |
| Start Date: | : | Project: | Site Investigation | | | Page: 1 d | of 3 |
| 12/8/2006 | | Coordinat | es: X-610706.6 | Y | -682414.3 | Depth of | Boring: 32.00 |
| End Date: | | | : 12.3 ft NAVD88 | | | | t: P. Kelly, M. Merdinger |
| 12/18/2006 | | Drill Subc | ontractor: EB/TPI | - | | Driller: | |
| Depth (th) | thology | | Description | | PID | Sample ID | Sample Parameters |
| | ×^×^FIL | L: Black SIL | , some fine to coarse Gravel | , dry. | | 133-B22A (0.0-0.5) | Cr+6, TAL Metals |
| | `x ^ x | | | | 0.0 ppm | | |
| | | L: Red-browi | n fine gravel-sized COPR (50 s, wet. | %), some | 2.8 ppm | | |
| 2— × | × × × × × × | | | | _ | 133-B22B (2.0-2.5) | Cr+6, TAL Metals |
| - - - - - | × × × × × × × × × × × × × × × × × × × | L: Gray to Bl | ack-stained SILT, some fine | to medium | 150.0 | | |
| 4 | Gr | avel, sheen, v | vet. Strong petroleum odor. | | ppm | 133-B22C | Cr+6, TAL Metals |
| > - - | × × SII | _T and small j Iterial (shells, | ish Brown (10YR 4/2) to Blac agged GRAVEL, some fine S ash, slag, wood), loose, wet. oal Tar. Oil odor. | Sand, Fill | 23.4 ppm | (4.0-4.5) | |
| 6 | < × jag | iged Gravel, t | SYR 4/2) SILT, some Clay, litrace fine Sand, 5% COPR, siloose, wet. Odor. | | 27.9 ppm | | |
| × × | `x X x GF | | own (2.5Y 5/2) SILT and jag Green staining, 10% COPR TE MUD) | | 6.2 ppm | | |
| | X X NF | R: No Recover | у | | | | |
| 8 + × | /× × GF | | rown (2.5Y 5/2) SILT and jag Green staining, 10% COPR TE MUD) | | 0.7 ppm | 133-B22D (8.0-8.5) | Cr+6, TAL Metals |
| | to | medium Sand | (Gley N4/0) SILT and COAL, I, Fill Material (ceramics, coal et. Naphthalene odor. | | 0.5 ppm | | |
| 10 — | NF | R: No Recover | у | | 0.5 ppm | | |
| | | | | | | | |

| ENCD AFCO | Client: PPG Industries | | | NG ID: |
|---|---|----------|-------------------------|-----------------------------|
| ENSR AECO | Site: Site 133 | | 1 | 33-B22 |
| Start Date: | Project: Site Investigation | | Page: 2 | of 3 |
| 12/8/2006 | Coordinates: X- Y- | | Depth of | Boring: 32.00 |
| End Date: | Elevation: | | Geologis | t: P. Kelly, M. Merdinger |
| 12/18/2006 | Drill Subcontractor: EB/TPI | | Driller: | |
| Debty (4) Tithology | Description | PID | Sample ID | Sample Parameters |
| 12 — | FILL: Very Dark Gray (5YR 3/1) SILT, some Clay, semi-firm, moist. No odor. | 7.6 ppm | 133-B22E (12.0-12.5) | MS/MSD, Cr+6, TAL Metals |
| - × × × × × × × × × × × × × × × × × × × | FILL: Pinkish Gray (5YR 6/2) ASH and jagged GRAVEL, some Silt, trace Clay, Fill Material (ceramics, coal, brick), wet. No odor. | 0.6 ppm | 133-B22F (13.2-13.7) | Cr+6, TAL Metals |
| | PEAT: Dark Grayish Brown (2.5Y 4/2) organic CLAY, little Organics/Peat, firm, moist. No odor. | 0.3 ppm | | |
| - | NR: No Recovery | | | |
| | PEAT: Dark Grayish Brown (2.5Y 4/2) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor. | 0.1 ppm | | |
| | PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor. | 5.6 ppm | 133-B22G (17.0-17.5) | Cr+6, TAL Metals |
| 18 — | | 13.8 ppm | | |
| 1 | NR: No Recovery | 15.3 ppm | | |
| 20 + | PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor. | 6.4 ppm | | |
| - + + + + + + + + + + + + + + + + + + + | | 56.3 ppm | | |

| ENCD | 150014 | Client: PPG Industries | | BORII | NG ID: |
|-------------|----------|--|----------|-------------------------|------------------------|
| ENSR / | AECOM | Site: Site 133 | | 13 | 33-B22 |
| Start Date: | | Project: Site Investigation | | Page: 3 o | f 3 |
| 12/8/2006 | | Coordinates: X- Y- | | Depth of E | Boring: 32.00 |
| End Date: | | Elevation: | | Geologist: | P. Kelly, M. Merdinger |
| 12/18/2006 | 6 | Drill Subcontractor: EB/TPI | | Driller: | |
| Depth (ft) | thology | Description | PID | Sample ID | Sample Parameters |
| 22 + | SIL fier | T AND CLAY: Gray (Gley N5/0) SILT and CLAY, m, moist. Slight sulfur odor. | 15.3 ppm | 133-B22H (21.7-22.3) | Cr+6, TAL Metals |
| | | | 8.6 ppm | | |
| 24 + | NR | 2: No Recovery | 0.7 ppm | | |
| | | T AND CLAY: Gray (Gley N5/0) SILT and CLAY, m, moist. Slight sulfur odor. | 0.7 ррш | | |
| | | AY: Dark Grayish Brown (10YR 4/2) CLAY, some to e Silt, trace Organics, firm, moist. Slight sulfur odor. | 1.3 ppm | | |
| 26+ | | | 6.6 ppm | | |
| | SAI | ND AND SILT: Gray (Gley N5/0) very fine SILT and ND, little to trace Clay, trace small angular Gravel, t. No odor. | 0.2 ppm | | |
| 28+ | NR | 2: No Recovery |] | | |
| | | ND: Dark Reddish Brown (2.5YR 3/4) fine SAND, e Silt, wet. No odor. | 0.1 ppm | | |
| | | | 0.1 ppm | | |
| 30 + | | | 0.1 ppm | | |
| | | | 0.1 ppm | | |
| 32 🕸 🖰 | NU | ILL: End of Boring at 32 ft. | | | |
| | | | 1 | | |

| ENSR AECOM | Client: PPG Industries | | BORING ID: |
|----------------------|-----------------------------|------------|-----------------------------------|
| ENSK AECOM | Site: Site 133 | | 133-B23 |
| Start Date: | Project: Site Investigation | | Page: 1 of 4 |
| 12/8/2006 | Coordinates: X-610752.5 | Y-682464.7 | Depth of Boring: 36.00 |
| End Date: | Elevation: 12.3 ft NAVD88 | | Geologist: P. Kelly, M. Merdinger |
| 12/14/2006 | Drill Subcontractor: EB/TPI | | Driller: |
| Depth (ft) Lithology | Description | blD 2s | mple ID Sample Parameters |

| . 0 | | | | |
|---|--|--------------|---|--------------------------------------|
| ××× | ASPHALT: Street level ASPHALT | / | | |
| ×^× | FILL: Gray coarse GRAVEL | 30.5 ppm | 133-B23A (0.5-1.0) | Cr+6, TAL Metals |
| * * * * * * * * * | FILL: Dark Brown-red fine gravel-sized COPR (50%), some Clay and Silt, little medium Gravel, wet. | | | |
| 2+ | | | | |
| × × × × × × | | | 400 8008 | |
| * * * * * * 4 - * * | FILL: Gray-green SILT lenses, some coarse Gravel, little Glass shards, wet. | 28.4 ppm | 133-B23B (3.2-3.7) | Cr+6, TAL Metals |
| × × × × × × × × × × × × × × × × × × × | FILL: Dark Reddish Gray (5YR 4/2) fine SANDY SILT, some Clay, little coarse Sand, 20% COPR, loose, wet. Slight petroleum odor. | | | |
| - × × × × × × × × × × × × × × × × × × × | FILL: Black TOPSOIL, organic-rich, slight Yellow- Green staining, loose, moist. Petroleum odor. | 101.0 ppm | | |
| 6- × × × × | | 124.0 ppm | 133-B23C (6.0-6.5) | Cr+6, TAL Metals |
| - | NR: No Recovery | | | |
| 8+ × × | | 0.5 ppm | | |
| × × × × × × × × | FILL: Black coarse SAND and coarse GRAVEL, Wood, sheen, wet. Impacted with Coal Tar. Naphthalene odor. | | | |
| × × × × × | FILL: Very Dark Grayish Brown (10YR 3/2) very fine | 2.3 ppm | | |
| 10+ × × × × × × × × × × × × × × × × × × | SILTY SAND, trace small Gravel, wet. Naphthalene odor. | | 133-B23D(9.5-10.0) 133-B23DD(9.5-10.0) | Cr+6, TAL Metals Cr+6, TAL Metals |

| ENSR AECOM | | Client: PPG Industries | | BORI | NG ID: |
|--------------|-------------------|--|--------------|-------------------------|---------------------------|
| | | | 1: | 33-B23 | |
| Start Dat | e: | Project: Site Investigation | | Page: 2 d | of 4 |
| 12/8/200 | 6 | Coordinates: X- Y- | | Depth of | Boring: 36.00 |
| End Date | | Elevation: | | | t: P. Kelly, M. Merdinger |
| 12/14/20 | | Drill Subcontractor: EB/TPI | | Driller: | |
| Depth (ft) | Lithology | Description | PID | Sample ID | Sample Parameters |
| | × × × × × | | 32.5 ppm | | |
| | | NR: No Recovery | | | |
| 12 — | ~ | FILL: Very Dark Grayish Brown (10YR 3/2) very fine SILTY SAND, trace small Gravel, trace Clay, loose, wet. Naphthalene odor. | 0.8 ppm | | |
| | ××× | | 0.1 ppm | | |
| 14— | × × × × × × | FILL: Black SILT and fine SAND, trace Shell Material, wet. No odor. | 0.3 ppm | 133-B23E | Cr+6, TAL Metals |
| | × × × × × × | FILL: Dark Reddish Brown (5YR 3/2) SILTY CLAY, semi-firm, wet. No odor. | | (14.0-14.5) | |
| | | NR: No Recovery | | | |
| 16— | ^ | FILL: Very Dark Gray (7.5YR 3/1) SILTY CLAY, some very fine Sand, trace coarse Sand, wet. No odor. | 0.0 ppm | | |
| | × × × × × | | 0.0 ppm | 122 D22E | Crue TAI Motolo |
| 18 — | | PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor. | 134.0 ppm | 133-B23F (17.5-18.0) | Cr+6, TAL Metals |
| - | <u> </u> | NR: No Recovery | 13.3 ppm | | |
| | | TVIX. TVO IXECOVERY | | | |
| 20 + | | | 93.0 ppm | | |

 $\underline{\textbf{NOTES:}} \hspace{0.2cm} \textbf{Coordinates are provided in New Jersey State Plane NAD 1983 Feet.}$

| ENICE LEGGI | Client: PPG Industries | | BORII | NG ID: |
|---|--|--------------|-------------------------|--------------------------|
| ENSR AECOM | Site: Site 133 | | 13 | 33-B23 |
| Start Date: | Project: Site Investigation | | Page: 3 o | f 4 |
| 12/8/2006 | Coordinates: X- Y- | | Depth of I | Boring: 36.00 |
| End Date: | Elevation: | | Geologist | : P. Kelly, M. Merdinger |
| 12/14/2006 | Drill Subcontractor: EB/TPI | | Driller: | |
| Debty (41) rithology | Description | PID | Sample ID | Sample Parameters |
| │ │ │ <mark> </mark> | EAT: PEAT (Meadow Mat), some Organics, moist, m. Sulfur odor. | 297.0 | | |
| | EAT: Very Dark Gray (Gley N3/0) organic CLAY, me Organics/Peat, firm, moist. Sulfur odor. | ppm | 133-B23G (21.2-21.7) | Cr+6, TAL Metals |
| 22 + | | 117.0 ppm | | |
| - + + + + + + + + + + + + + + + + + + + | | 17.6 ppm | | |
| 24 + | LT: Greenish Gray (Gley 5GY 5/1) SILT, trace fine and and fine rounded Gravel, firm, wet. No odor. | 101.0 ppm | 133-B23H (24.0-24.5) | Cr+6, TAL Metals |
| | | 33.4 ppm | | |
| | AND: Greenish Gray (Gley 5GY 5/1) fine SAND, me Silt, loose, wet. No odor. | 14.2 ppm | | |
| litt | AND: Weak Red (10R 4/4) very fine to coarse SAND, le Silt, trace fine rounded Gravel, loose, wet. No or. | 0.3 ppm | | |
| 28 - NF | R: No Recovery | 0.1 ppm | | |
| | AND: Weak Red (10R 4/4) fine to medium SAND, ace Silt, loose, wet to moist. No odor. | 0.1 ppm | | |
| 30 + | | 0.0 ppm | | |

| ENICE | 150014 | Client: | PPG Industries | | | | | NG ID: |
|------------|-----------|---------------|--|----------|---------|------|------------|------------------------|
| ENSR | AECOM | Site: | Site 133 | | | | 13 | 33-B23 |
| Start Date | e: | Project: | Site Investigation | | | | Page: 4 o | f 4 |
| 12/8/2006 | 6 | Coordina | tes:X- | Y- | | | Depth of E | Boring: 36.00 |
| End Date | | Elevation |): | | | | Geologist | P. Kelly, M. Merdinger |
| 12/14/200 | 06 | Drill Subo | contractor: EB/TPI | | | | Driller: | |
| Depth (ft) | Lithology | | Description | | PID | දුන් | mple ID | Sample Parameters |
| 32 — | SAI | e Silt, loose | ed (10R 4/4) fine to mediu, wet to moist. No odor. | ım SAND, | 0.1 ppm | | | |
| | NU | LL: End of B | Soring at 36 ft. | ı | | | | |

Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 11.9 ft NAVD88

State Plane Coordinates

X: 610670.8

Y: 682283.1

Drilling Method: HSA/Mud Rotary



133-MW1C

Page: 1 of 7

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|---------------------------------|---------------------------------|---|------------|---------------------|---------------------------------------|---|
| -0 -1 -2 - | | 2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings 133-1CA (1.0-2.0) Cr+6, TAL Metals | 0.0 | | X X X X X X X X X X X X X X X X X X X | Very Dark Brown (10YR 2/2) medium to fine SAND, little medium to fine Gravel, trace organics, plastic, moist, loose. No odor. Soft Dig refusal on brick foundation. No sample, augered through. |
| -4 -5 -6 | | 133-1CB (4.0-4.5) Cr+6, TAL Metals | N/A N/A | 50/2 1 3 4 | × × × × × × × × × × × × × × × | Very Dark Gray (5YR 3/1) SILT, some coarse Sand (Fill Sand), crushed Fill Material (brick), trace organics, wet, loose. Diesel fuel odor. Refusal on Brick. No Recovery |
| -7 - -8 - | | | N/A | 10 N/A | | Brick foundation. No sample, augered through. |
| - - -10 - - 1-11 | | 133-1CC (9.0-10.0) Cr+6, TAL Metals 133-1CCD (9.0-10.0) Cr+6, TAL Metals | N/A | 1 6 7 6 | × × × × × × × × × × × × × × | Gray (5Y 5/1) SILT, trace coarse to fine Sand interbedded with Ash and crushed Fill Material (C/D), moist to wet, loose. Black water in sample. No odor. No Recovery Gray (5Y 5/1) SILT, trace coarse to fine Sand interbedded with Ash and crushed Fill Material |

Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Coologist. P. Ergozon M. Mor

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation

State Plane X:

X: 682282.8 **Y:** 610670.5

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW1C

Page: 2 of 7

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|--|---------------------------------|--|-----------------|--------------------------|---------------------------------------|--|
| - 12 - 13 - 14 - 15 - 16 - 17 - 18 | Diagram | 133-1CD (13.0-14.0) MS/MSD, Cr+6, TAL Metals 133-1CE (15.0-15.5) Cr+6, TAL Metals | N/A N/A N/A 0.0 | 3 4 5 4 1 2 2 2 2 WH 1 1 | * * * * * * * * * * * * * * * * * * * | (C/D), moist to wet, very loose. Black water in sample. No odor. No Recovery Dark Gray (Gley1 4N/0) PEAT, organics, cohesive, very soft, moist. No odor. No Recovery Dark Gray (Gley1 4N/0) PEAT, trace organics, cohesive, very soft, moist. Slight sulfur odor. No Recovery Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor. |
| - - 19 - - 20 - - 21 - | | 133-1CG (19.0-20.0) Cr+6, TAL Metals 133-1CGD (19.0-20.0) Cr+6, TAL Metals 133-1CH (21.0-21.5) Cr+6, TAL Metals | 0.0 | 1 2 1 1 1 1 2 | | No Recovery Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor. No Recovery Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor. No Recovery |

Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation

State Plane X

X: 682282.8 **Y:** 610670.5

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW1C

Page: 3 of 7

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------------|--|-----------|----------|---|---|
| 11 1 | | | ı | | 1 | |
| | | | | 3 | | |
| _23 | | 133-1CI (23.0-23.5) | 0.0 | 8 | -::: | Gray (Gley1 5N/0) very fine SAND amd SILT, |
| | | Cr+6, TAL Metals | | 13 | | trace Clay and medium rounded Gravel, wet, medium dense. No odor. |
| _ 24 | | | 0.0 | 14 | | Weak Red (10R 4/3) very fine SAND, some Silt, |
| | | | | 12 | • • • • • • • | trace Clay and fine to medium round Gravel, wet, medium dense. No odor. |
| - 25 | | | 0.0 | 3 | • • • • • • | \ No Recovery |
| | | | | 2 | | Weak Red (10R 4/3) coarse to fine graded |
| _26 | | | 0.0 | 2 | | SAND, trace rounded fine Gravel and Silt, wet, very loose. No odor. |
| | | | | 3 | •••••• | No December |
| _ 27 | | 133-1CJ (27.0-27.8) | 0.0 | 6 | • | No Recovery Weak Red (10R 4/3) medium to coarse SAND, |
| | | Cr+6, TAL Metals 133-1CJD (27.0-27.8) Cr+6, TAL Metals | | 7 | | some Silt, little fine to medium rounded Gravel, loose, wet. No odor. |
| _ 28 | | OTTO, TALE MORALO | 0.0 | 5 | | No Recovery |
| | | | | 6 | | , |
| _ 29 | | | 0.0 | 6 | • • • • • | Weak Red (10R 4/3) coarse to fine graded |
| | | | | 6 | | SAND, some to little Silt, little medium to coarse rounded Gravel, wet, loose. No odor. |
| 30 | | | 0.0 | 5 | | , , |
| | | | | 7 | | No Recovery |
| 31 | | 133-1CK (31.0-31.5) | 0.0 | 6 | ······································ | Weak Red (10R 4/3) medium to fine SAND and |
| | | MS/MSD, Cr+6, TAL Metals | | 5 | | SILT, trace fine to medium rounded Gravel, wet, loose. No odor. |
| 32 | | | 0.0 | 6 | | No Recovery |
| | | | | 6 | | |
| 33 | | | 0.0 | 6 | ::::::::::::::::::::::::::::::::::::::: | |

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation

State Plane

X: 682282.8 **Coordinates**

Drilling Method: HSA/Mud Rotary



Page: 4 of 7

Y: 610670.5

| | 1 14. Moyer | Di lining l | | | 11571/11100 | rotary 1 age. 4 of 7 |
|-------------------|---------------------------------|--|-----------|----------|-------------|---|
| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
| - 34 | | | 0.0 | 5 | | Weak Red (10R 4/3) fine SAND and SILT, wet, loose. No odor. |
| _ 35 | | | 0.0 | 6 | | No Recovery Weak Red (10R 4/3) fine SAND and SILT, wet, very loose. No odor. |
| — 36 - | | | 0.0 | 4 4 5 | | Weak Red (10R 4/4) SILT, some very fine Sand, wet, loose. No odor. No Recovery |
| — 37 – | | | 0.0 | 4 | <u> </u> | Weak Red (10R 4/4) SILT, little very fine Sand, wet, very loose. No odor. |
| — 38 - | | | | 3 4 | | No Recovery |
| — 39 - | | | N/A | 6 5 | | Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose. No odor. |
| - 40 41 | | | | 6 7 | | No Recovery |
| - - - 42 | | | 0.0 | 6 | | Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor. |
| - - 43 | | | 0.0 | 9 | | No Recovery |
| _ | | | 0.0 | 7 6 | | Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor. |
| 44 | | | 0.0 | 7 | | |

Site: Site 133

Site Location: Jersey City, NJ

 $\textbf{Geologist:} \quad \text{B. Ergezen, M. Merdinger}$

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation

State Plane X:

X: 682282.8 **Y:** 610670.5

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW1C

Page: 5 of 7

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|-----------------|---------------------------------|--|-----------|----------|-----------------|---|
| | | | • | | | |
| | | | | 7 | | |
| 45 | | | 0.0 | 4 | <u></u> | No Recovery |
| | | | 0.0 | | | Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose. No odor. |
| — 46 | | | | 5 | | |
| | | | 0.0 | 6 | | No Recovery |
| | | | | 8 | | |
| 47 | | | 0.0 | 8 | | Weak Red (10R 4/4) SILT, wet, loose. No odor. |
| | | | | 8 | <u> </u> | |
| - 48 | | | 0.0 | 7 | <u> </u> | |
| | | | | 8 | | |
| 49 | | | 0.0 | 7 | <u></u> | No Recovery |
| | | | 0.0 | | | Weak Red (10R 4/4) SILT, wet, loose. No odor. |
| 50 | | | | 7 | <u> </u> | |
| | | | 0.0 | 8 | | |
| | | | | 8 | | No Recovery |
| 51 | | | 0.0 | 7 | · — · — · — · — | Weak Red (10R 4/4) SILT, trace to none very |
| | | | | 6 | | fine Sand, wet, loose. No odor. |
| 52 | | | 0.0 | 6 | | |
| | | | | 7 | | No Recovery |
| 53 | | | 0.0 | 7 | · <u></u> | Week Deal (40D 4/4) OHT |
| | | | 0.0 | 8 | | Weak Red (10R 4/4) SILT, wet, loose. No odor. |
| — 54 | | | 0.0 | 7 | | Weak Red (10R 5/4) SILT and little interbedded Silty Clay, loose, wet. No odor. |
| | | | 0.0 | | | • |
| 55 | | | 0.0 | 5 | | No Recovery |
| | | | 0.0 | 6 | | Weak Red (10R 4/4) SILT, wet, loose. No odor. |

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation

State Plane X: 682282.8

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 6 of 7

Y: 610670.5

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------------|--|-----------|----------|---------------------------------------|--|
| | | | 1 | ı | · · · · · · · · · · · · · · · · · · · | |
| - 56 | | | 0.0 | 5 6 | | Dark Gray (5YR 4/1) CLAY, some Silt, with trace interbedded Weak Red (10R 5/4) Silt, moist, cohesive, medium. No odor. |
| | | | | 7 | | No Recovery |
| 57 | | | 0.0 | 3 | | Dark Gray (5YR 4/1) CLAY and Weak Red (10R |
| | | | | 4 | | 5/4) SILT, interbedded, firm, cohesive, soft. No odor. |
| 58 | | | 0.0 | 4 | | |
| - 59 | | | | 4 | :: =:::_ | |
| | | | 0.0 | 4 | ::_ _:::_ | |
| 60 | | | 0.0 | 7 6 | | Reddish Brown (2.5YR 4/3) interbedded Silty |
| | | | 0.0 | 5 | | CLAY and SILT, cohesive, medium, moist. No odor. |
| 61 | | | 0.0 | 3 | | |
| | | | | 3 | | |
| 62 | | | 0.0 | 5 | | |
| | | | | 4 | | |
| 63 | | | 0.0 | 6 | | |
| | | | | 6 | _ · | |
| 64 | | | 0.0 | 6 | | Gray (5Y 5/1) CLAY, interbedded with trace Weak Red (10R 5/4) Silt and very fine Sand, |
| 65 | | | | 6 | | cohesive, medium, moist. No odor. |
| | | | 0.0 | 3 | | Gray (5Y 5/1) CLAY, interbedded with some Weak Red (10R 5/4) Silt and very fine Sand, |
| 66 | | | 0.0 | 6 | | cohesive, soft, moist. No odor. |

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

State Plane

Elevation

Drilling Date:

X: 682282.8

3/29/2007

Y: 610670.5

Coordinates

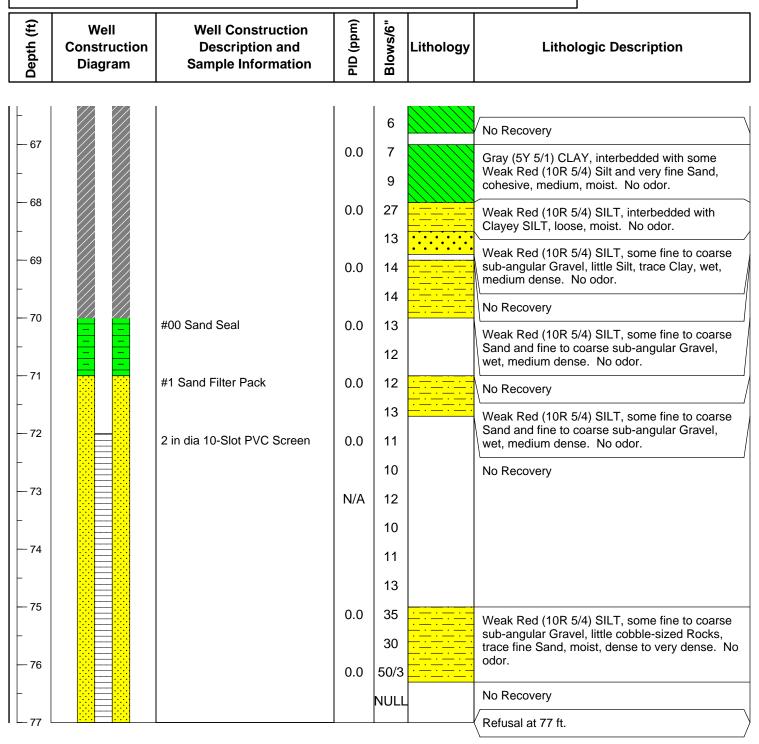
Drilling Method: HSA/Mud Rotary

Well Completion Date: 4/26/2007



133-MW1C

Page: 7 of 7





30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3B-M37A

| oject Name: | PPG G | arfield Ave | | | Orilling Company: SGS North America | | Page: 1 |
|---------------------|--------------|---------------------|------------|--|---|---|-------------------------------|
| oject Number: | | | | | Orilling Method: Geoprobe | Coordinates (NJSP | NAD83) x: 610732.9 |
| ate Started Dri | | | :17:00 PM | | Rig Type: | | IAD83) y: 682494.4 |
| ate Finished D | | | | 1 | Core Size: 3 in | Boring Total Depth: | 17 ft |
| ogged By: MI | | | | | Project Manager: Chris Martell | Depth to Water: NA | |
| nysical Location | n: Site | e 133 - M37 | 7A | | | Elevation: 11.8 ft N | |
| | | | | T | | (Note | e bgs = below ground surface) |
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| | 0.0 | dry | FILL | | fine silty SAND, some concrete fragme dark yellowish brown, non plastic, medi | | |
| 1 2 | 0.0 | slightly moist | FILL | | slightly moist. fine silty SAND, some fine cinders, little COPR, (10YR 3/3) dark brown, non pla | | |
| 2 | 0.0 | slightly | FILL | | moist. fine CINDERS, little silty sand, (10YR 2 | | |
| 1.3 | 0.0 | moist slightly | FILL | | plastic, loose, slightly moist. | | |
| | 0.0 | moist | | XXXX | CINDERS, some ash, little fine silty sai | | |
| _ | | | NR | 1 | grayish brown, non plastic, medium der strong petroleum odor, sheen. | nse, siigniiy moist, / | |
| 5 2 | 33.4 | moist | FILL | | NO RECOVERY COPR, little fine to medium sand, (2.5) non plastic, loose, moist, slight petrolet | | |
| 71.3 | 25.8 | moist | FILL | | fine CINDERS, little GGM, trace gravel gray, non plastic, loose, moist, slight pe sheen. | , (5Y 4/2) olive etroleum odor, | |
| _ | | | NR | XXXXX | NO RECOVERY | | |
| 92 | 0.0 | moist to wet | FILL | | fine silty SAND, little cinders, trace coa dark brown, non plastic, loose, moist to | | 133-P3B-M37A-8.5-9.0 |
| 10 | 0.0 | moist | FILL | | fine silty SAND, some fine cinders, (10 | YR 2/2) very dark | |
| 1.7 | 0.0 | moist | FILL | | brown, non plastic, loose, moist fine silty SAND, little fine gravel, trace r dark brown, non plastic, loose, moist | roots, (10YR 3/3) | 133-P3B-M37A-10.5-11.0 |
| 12 | 0.0 | | NR | | NO RECOVERY | | 133-P3B-M37A-12.0-12.5 |
| 0.6 | 0.0 | moist to wet | FILL NR | | fine to medium silty SAND, some cinde gravel, (10YR 2/1) black, non plastic, lo NO RECOVERY | ers, little fine pose, moist to wet. | 133-P3B-W3/A-12.0-12.5 |
| 14 15 2 | 0.0 | moist to wet | FILL | | SILT, with fine sand, little cinders, trace (10YR 2/1) black, non plastic, soft, moi | e roots, fine gravel, st to wet. | 133-P3B-M37A-14.0-14.5 |
| _ | 4.0 | | | | | | 133-P3B-M37A-15.0-15.5 |
| 16 1 171 | 2.1 | moist dry | OL PT | \(\frac{1}{2}\)\(\fra | I LAT (degraded vegetated material), e | c odor, no staining. 80% organic fibers, | 133-P3B-M37A-15.5-16.0 |
| | | | | | 20% organic silt, non plastic, stiff, dry, sodor, no staining. Soils consistent with | | |



Boring ID: 133-P3B-M38A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610719.4 Date Started Drilling: 7/2/2013 10:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682467.6 Date Finished Drilling: 7/2/2013 1:50:00 PM Core Size: 3 in Boring Total Depth: 19 ft

| d By: MI | | | | 16 | Project Manager: Chris Martell Depth to Water: NA | |
|----------|--|--|------------------|------------------|---|---|
| | n: Site | e 133 - M38 | 3A | | | |
| | | | | | | bgs = below ground surface) |
| (ft/ft) | | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| . 2 | 0.0 | moist | FILL | | fine to medium SAND, some COPR, trace brick, cinders, ash, coarse gravel, (7.5YR 5/6) strong brown, non plastic, loose, moist, no odor, no staining. | |
| | 0.0 | moist | FILL | | COPR, some fine to medium sand, little fine to medium | |
| 1.4 | 0.0 | moist | FILL | | \moist, no odor, no staining. | |
| _ | 0.0 | moist | FILL NR | | gravel, (10YR 5/2) grayish brown, non plastic, loose to soft, moist, no odor, no staining. | |
| 1.7 | 0.0 | moist | FILL | | gravel, (2.5YR 3/6) dark red, non plastic, loose, slightly moist, no odor, no staining. NO RECOVERY fine silty SAND, some ash, little fine to medium gravel, | 133-P3B-M38A-4.5-5. |
| 2 | 0.0 | moist | NR FILL | | soft, moist, no odor, no staining. NO RECOVERY medium SAND, with fine to coarse gravel, some ash, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining. | 133-P3B-M38A-6.5-7 |
| 1.3 | 0.0 | moist | FILL | | medium SAND, with fine to coarse gravel, some ash, little coal, (10YR 4/6) dark yellowish brown, non plastic, loose, moist, no odor, no staining. | 133-P3B-M38A-8.5-9 |
| - | | | NR | | NO RECOVERY | |
| | 0.0 | moint | ГПТ | | ACLL same fine silty apply same sinders, apply wood | |
| 1.2 | 0.0 | moist | NR | | fragments, little fine to coarse gravel, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist, no odor, no staining. | 133-P3B-M38A-10.5-1 |
| | 0.0 | | | XXXXX | | |
| 2 | 0.0 | moist | FILL | | brown, non plastic, soft, moist, no odor, no staining. | 133-P3B-M38A-12.5-1 |
| 2 | 0.0 | moist | FILL | | fine silty SAND, some roots, little fill material, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining. | 133-P3B-M38A-14.5-1 |
| | 0.0 | moist | FILL | | fine sandy SILT, some roots, little fill material, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining. | 133-P3B-M38A-16.0-1 |
| 2 | 2.1 | dry | PT | | PEAT (degraded vegetated material), 80% organic fibers, | 133-P3B-M38A-16.7-1 133-P3B-M38A-17.2-1 |
| _ 1 | 2.4 | dry | PT | 71 71 | stiff, dry, strong organic odor, no staining. Soils consistent with MM. | |
| | | | | | 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | |
| | Recovery (ft/ft) 2 1.4 1.7 2 1.2 2 | Recovery (ft/ft) PID (ppm) 2 0.0 1.4 0.0 1.7 0.0 1.7 0.0 1.3 0.0 1.2 0.0 2 0.0 2 0.0 2 0.0 2 1.3 0.0 2 1.3 0.0 2 1.3 0.0 3 0.0 4 1.3 0.0 5 1.3 0.0 6 1.3 0.0 6 1.3 0.0 7 1.3 0. | Recovery (ft/ft) | Recovery (ft/ft) | Recovery (ft/ft) PID Moisture (ppm) Content USCS Graphic Log | Recovery (right) PID Moisture (ppm) Content USCS Graphic Content (right) Graphic Content USCS Graphic Content (ppm) Content |



Boring ID: 133-P3B-M39A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610705.9 Date Started Drilling: 7/10/2013 10:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682440.8 Date Finished Drilling: 7/10/2013 11:30:00 AM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - M39A

| Physic | al Locatio | n: Site | e 133 - M3 | 39A | | Elevation: | | |
|--------------------------|---------------------|--------------|---------------------|----------|-----------------------|---|--------------|---------------------------------|
| | | | | | | | (NC | ote bgs = below ground surface) |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
| | | 0.0 | slightly | FILL | ****** | \neg fine silty SAND, little brick, trace fine gravel, (5YR 5) | /4) / | |
| _ | | 0.0 | moist | FILL | \bowtie | $_{\neg} \backslash$ reddish brown, non plastic, loose to soft, slightly mo | | 4 |
| -1 | 2 | 0.0 | | CONCRETE | | ∖no odor, no staining. | / | |
| _ | | 0.0 | moist | FILL | | fine to medium silty SAND, with GGM and COPR, (5 | 5YR ∥ | |
| - າ | | | dry | | | \$\\\5/8\) yellowish red, non plastic, loose to soft, slightly | // _ | |
| _ | | 0.0 | dry | FILL | \mathbb{R}^{\times} | │ ∖moist, no odor, no staining. │ ∖weathered CONCRETE, green staining. | | _ |
| _ | 4.0 | 0.0 | slightly | FILL | | GGM, little COPR, (5GY 4/4) olive green, low plastic | ity // | |
| -3 | 1.3 | | moist | | | \soft, dry, no odor, green staining. | ,, | |
| _ | | | | NR | | GGM, little COPR, (5GY 4/4) olive green, low plastic | ity, // | |
| -4 | | | | | | \soft, dry, no odor, green staining. | | |
| | | 0.0 | moist | FILL | | fine SAND, some cinders, coal, little ash, (7.5YR 2.5 | 5/1) // | |
| | 2 | | | | | black, non plastic, loose, slightly moist, no odor, no | / | |
| -5 | 2 | | | | | staining. | // | |
| _ | | | | | | NO RECOVERY fine to medium silty SAND, some cinders, coal, little | fino | |
| -6 | | 0.0 | | | | gravel, wood fragments, (7.5YR 3/3) dark brown, no | | _ |
| _ | | 0.0 | moist | FILL | | plastic, loose to soft, moist, no odor, no staining. | / | |
| 7 | 2 | | | | | fine to medium SAND, with cinders, ash, coal, some | ; | |
| - / | _ | | | | | ceramics,tar-like material, little GGM, (7.5YR 2.5/1) | | |
| _ | | | | | | black, non plastic, loose to dense, moist, moderate | | |
| -8 | | 0.0 | moist | FILL | | petroleum odor, green staining. | | - |
| _ | | 0.0 | moist | FILL | | fine to medium SAND, with cinders, ash, coal, little | | |
| -α | 2 | | | | | ceramics, tar-like material, (7.5YR 2.5/1) black, non plastic, loose to dense, moist, moderate petroleum of | odor | |
| 9 | | 0.0 | | | | sheen. | Juui, | 4 |
| _ | | 0.0 | moist | FILL | | GGM, little cinders, trace coarse gravel, (5Y 5/2) oliv | /e | |
| -10 | | 0.0 | moist | FILL | | gray, low plasticity, dense, moist, no odor, green sta | | 1 |
| _ | | 0.0 | moist | FILL | | ∫ fine to medium SAND, with cinders, some ash, little | | 1 |
| -11 | 2 | 0.0 | 1110101 | 1 122 | | GGM, (10YR 4/4) dark yellowish brown, moist, no o | dor, / | 100 000 1100 110 11 |
| | | | | | | \green staining. | | 133-P3B-M39A-11.0-11. |
| 4.0 | | | | | | ASH, with cinders, coal, some ceramics, (7.5YR 4/1 dark gray, non plastic, loose, moist, no odor, no stai | | 133-P3B-M39A-11.0-11.5 |
| -12 | | 0.0 | moist | FILL | | CINDERS, some ash, coal, little silt, (7.5YR 3/1) ver | | |
| _ | _ | | | | | dark gray, non plastic, loose, moist, no odor, no stai | | |
| 13- | 2 | 0.0 | moist | FILL | | fine silty SILT, little cinders, trace ash, roots, (7.5YR | | 133-P3B-M39A-13.0-13. |
| _ | | | | | | brown, non plastic, loose to soft, moist, no odor, no | , | 133-P3B-W39A-13.0-13. |
| 11 | | | | | | staining. | | |
| 14 | | 0.0 | moist | FILL | | SILT, some fine sand, trace cinders, ash, (7.5YR 3/4 | 4) | |
| _ | | | | | | dark brown, low plasticity, soft, moist, no odor, no | , | |
| 15 | 2 | | | | | staining. | | 133-P3B-M39A-15.0-15. |
| _ | | | | | | | | 100-1 0B-1000A-10.0-10. |
| 16 | | | | | | | | |
| | | 0.0 | moist | FILL | | SILT, some fine sand, trace cinders, ash, (7.5YR 3/4 | 4) | |
| | 2 | | | | | dark brown, low plasticity, soft, moist, no odor, no | | 133-P3B-M39A-16.5-17. |
| -17 | 2 | 3.1 | dry | PT | <u> </u> | staining. PEAT (degraded vegetated material), 80% organic s | silt. | 133-P3B-M39A-17.0-17. |
| _ | | | u., | | 1 71 7 | 20% organic fibers, (7.5YR 3/3) dark brown, non pla | etic | |
| 18 - | | | | | <u> </u> | \[\stiff, \text{ dry, strong organic odor, no staining. Soils} \] | Juo, | |
| | | | | | | consistent with MM. | / | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3B-M40A

| Project | t Number: | 60240 | arfield Ave 0739 7/3/2013 10 | ·25·00 ΔM | | Drilling Company: SGS North America Drilling Method: Geoprobe Rig Type: | Coordinates (NJSF | PNAD83) x: 610692.4 PNAD83) y: 682414.0 |
|---------------------------|---------------------|--------------|------------------------------------|--------------------|--|--|---|--|
| | | | 7/3/2013 10 | | | Core Size: 3 in | Boring Total Depth: | |
| | d By: MI | mig. | 170/2010 1 | 2.00.00 i iv | | Project Manager: Chris Martell | Depth to Water: N/ | |
| | | n: Site | e 133 - M40 |)A | | Tojoc managori erine marten | Elevation: 13.2 ft i | |
| , | 1 1 | | | | | | | ote bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Th | nickness: | Sample ID |
| - 1 - 1 | . 2 | 0.0 | moist | FILL | | fine silty SAND, some fine to mediu fragments, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining. | | |
| -2 - -3 - | . 2 | 0.0 | moist | FILL | | fine silty SAND, some fine to mediu fragments, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining. | | |
| -4 -5 - | 2 | 3.1 | slightly moist | FILL | | fine to medium SAND, some coal, wood fragments, trace oil like mate dark gray, non plastic, loose, slightl odor, no staining. | rial, (7.5YR 3/1) very | |
| -6 -7 - | 2 | 0.0 | slightly moist | FILL | | fine to medium SAND, some coal, wood fragments,, (7.5YR 3/1) very loose, slightly moist, slight tar odor | dark gray, non plastic, | |
| -8 -9 - | 1.8 | 0.0 | slightly moist | FILL | | fine to medium silty SAND, some c some fine to medium gravel, (10YF brown, non plastic, loose, slightly m no staining. | R 4/2) dark grayish | 133-P3B-M40A-9.0-9 |
| -10 - -11 | 1.3 | 0.0 | slightly moist | NR FILL | | NO RECOVERY fine to medium silty SAND, some come fine to medium gravel, (10YF) brown, non plastic, loose, slightly medium gravel. | R 4/2) dark grayish | 133-P3B-M40A-10.5-1 |
| _ _12 | | 0.0 | slightly moist | NR FILL FILL | | no staining. NO RECOVERY fine to medium silty SAND, some composition some since to medium gravel, (10YF) | oal, cinders, ash, R 4/2) dark grayish | 133-P3B-M40A-12.5-1 |
| -13 - -14 | 1.7 | 0.0 | moist | NR | | brown, non plastic, loose, slightly mostaining. sandy SILT, wood fragments, trace dark brown, low plasticity soft, mois | roots, (7.5YR 3/2) | - - |
| _ | | 1.2 | | FILL | <u> </u> | \\staining. | //_ | 133-P3B-M40A-14.5-1 |
| -15 | 2 | 1.4 | moist | OL | | NO RECOVERY SILT, with roots, little wood fragmer (7.5YR 3/2) dark brown, low plastic | nts, little fine sand, | 133-P3B-M40A-15.0-1 |
| -16 | | 2.3 | dry | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | (7.51% odd), no staining. UNDorg SILT, with 90% organic silf fibers, (7.5YR 3/3) dark brown, med moist, moderate organic odor, no sconsistent with UNDorg. PEAT (degraded vegetated material 20% organic silt, (7.5YR 3/2) dark the stiff, dry, strong organic odor. Soils | t roots, 10% organic dium plasticity, soft, taining. Soils al), 80% organic fibers, prown, non plastic, | |
| Commer | nts: 1) 3 atte | mpts we | ere made to ol | btain best rec | overy 2) N | IM/UND confirmed to be 1 ft thick 3) No CCPW | (COPR or GGM) present in an | y interval of this boring. |



Boring ID: 133-P3B-M41A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610688.7
Date Started Drilling: 7/18/2013 12:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682376.8
Date Finished Drilling: 7/18/2013 1:00:00 PM Core Size: 3 in Boring Total Depth: 16 ft
Logged By: MI Project Manager: Chris Martell Depth to Water: NA

| Surface Cover and Thickness: Sample Surface Cover and Thickness: ID | hysic | al Locatio | n: Site | e 133 - M4 | 1A | | Elevation: 13.7 ft | NAVD88 ote bgs = below ground surface) |
|--|----------------------|------------|--------------|------------|------|-------|---|--|
| 1.6 0.0 dry Fill brown, non plastic, loose, dry, no odor, no staining. medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no odor, no staining. No RECOVERY moist NR | epth ange bgs) | | PID (ppm) | | USCS | | Surface Cover and Thickness: | |
| medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no odor, no staining, No RECOVERY medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no odor, no staining. NR little moist NR little moist NR little salthy recipitate, (5YR 4/2) dark reddish gray, non plastic, loose, slightly moist, no odor, no staining. NR little salthy moist, no odor, no staining. SAND, with cinders, ash, little fine gravel, (5YR 6/4) green staining. GGM, with ash, cinders, little salth precipitate, (5YR 5/2) reddish gray, low plasticity, stiff, slightly moist, no odor, green staining. ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NR little salthy precipitate, (5YR 5/2) reddish gray, low plasticity stiff, slightly moist, no odor, green staining. ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NR little salthy precipitate, (5YR 5/2) reddish gray, low plasticity stiff, slightly moist, no odor, green staining. ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NR little salthy precipitate, (5YR 5/2) reddish gray, low plastic, loose, moist, no odor, no staining. NR little salthy precipitate, (5YR 5/2) reddish gray, low plastic, loose, moist, no odor, no staining. NR little salthy precipitate, (5YR 5/78 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NR little salthy gray, non plastic, loose, moist, no odor, no staining. SiLT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. SiLT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. 133-P3B-M41A-14.5-1 medium plasticity, soft, moist to saturated, no odor, no staining. 133-P3B-M41A-15.0-1 medium plasticity, soft, moist to sat | | | | dry | | | fine to medium SAND, with roots, grass, (7.5YR 4/2) | |
| 1 0.0 dry FILL moist MR MR MR MR MR MR MR M | - -1 | 1.6 | 0.0 | dry | FILL | | medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no | |
| 1 0.0 slightly moist NR | 2 | | | | | | Odor, no staining. | |
| 1 0.0 slightly moist NR | | | | dry | FILL | | medium to coarse SAND_some coarse gravel_(10YR | |
| Moist NR | _ | 1 | 0.0 | | FILL | | 6/4) light yellowish brown, non plastic, loose, dry, no | |
| 2 0.0 slightly moist slightly moist, no odor, no staining. 1.2 0.0 slightly slightly moist, no odor, no staining. 1.2 0.0 moist slightly slightly moist, no odor, no staining. 1.2 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, no odor, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 moist slightly slightly moist, slight organic door, no staining. 1.3 0.0 | 3 | • | | moist | NR | | fine to medium SAND, with cinders, coal, little medium | |
| 1.2 0.0 slightly moist FILL fine sitly SAND, with cinders, ash, little fine gravel, (5YR 4/2) dark reddish gray, non plastic, loose to dense, slightly moist, no odor, no staining. GGM, with ash, cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity, stiff, slightly moist, no odor, green staining. GGM, with ash, cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity, stiff, slightly moist, no odor, green staining. GGM, with ash, cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity stiff, slightly moist, no odor, green staining. NR NR NR NR NR NR NR N | - | | | | | | \moist, no odor, no staining. | |
| 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.2 1.2 | 5 - | 2 | 0.0 | | FILL | | fine silty SAND, with cinders, ash, little fine gravel, (5YR 4/2) dark reddish gray, non plastic, loose to dense, slightly moist, no odor, no staining. | |
| 1.2 0.0 moist FILL Square staining. O.0 moist FILL Sh, with cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity stiff, slightly moist, no odor, green staining. O.0 moist FILL Sh, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. O.0 moist FILL SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. UNDNO SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, | j — | | 0.0 | slightly | FILL | | GGM, with ash, cinders, little salt precipitate, (5YR 5/2) | 1 |
| reddish gray, low plasticity stiff, slightly moist, no odor, green staining. ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. 133-P3B-M41A-12.5-1 133-P3B-M41A-12.5-1 133-P3B-M41A-14.5-1 133-P3B-M41A-14.5-1 133-P3B-M41A-15.0-1 133-P3B-M41A-15.0-1 133-P3B-M41A-15.0-1 | - 7 | 1.2 | 0.0 | moisť | | | \areen staining. | 133-P3B-M41A-6.5-7. |
| 1 0.0 moist FILL ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NR N | _ | | | | NR | | \reddish gray, low plasticity stiff, slightly moist, no odor, | |
| NR O.0 moist FILL O.0 moist | - | 1 | 0.0 | moist | FILL | | ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, | 133-P3B-M41A-8.5-9 |
| 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 |)— — | • | | | NR | | NO RECOVERY ASH, with cinders, coal, some wood fragments, | |
| NR ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. 133-P3B-M41A-14.5-1 UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, | | 1.3 | 0.0 | moist | FILL | | \moist, no odor, no staining. NO RECOVERY | 133-P3B-M41A-10.5-1 |
| 2 0.0 moist FILL NO RECOVERY ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. 0.0 moist FILL SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. 133-P3B-M41A-14.5-1 UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, | _ | | | | NR | XXXXX | \ ceramics, (7.5YR 4/1) dark gray, non plastic, loose, | |
| 0.0 moist FILL moist, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. O.0 moist MH UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, 133-P3B-M41A-14.5-1 | - | 2 | 0.0 | moist | FILL | | NO RECOVERY ASH, with cinders, coal, some wood fragments, | 133-P3B-M41A-12.5-1 |
| 2 0.0 moist FILL plasticity, soft, moist to saturated, no odor, no staining. SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining. UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, | 3 | 2 | 0.0 | moist | FILL | | moist, no odor, no staining. | _ |
| plasticity, soft, moist to saturated, no odor, no staining. UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, | 1 — | | 0.0 | moist | FILL | | plasticity, soft, moist to saturated, no odor, no staining. | 400 DOD M444 44 5 4 |
| | 5— | 2 | 0.0 | moist | MH | | plasticity, soft, moist to saturated, no odor, no staining. UNDno SILT, 90% inorganic silt, 10% organic fibers, | 133-P3B-M41A-15.0-1 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/11/2014 11:10:00 AM

Boring ID: 133-P3B-M42A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610633.3 Rig Type: Coordinates (NJSPNAD83) y: 682360.3

Boring Total Depth: 20 ft Date Finished Drilling: 4/11/2014 12:05:00 PM Core Size: 2 in Depth to Water: NA Project Manager: Chris Martell Logged By: ES

Physical Location: P3B - M42A Elevation: 13.5 ft NAVD88

| | | | | | | (No | tę bgs = below ground surface) |
|----------------------------|---------------------|--------------|---------------------|------|----------------|---|--------------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | FILL | | fine to medium SAND, some grass, (7.5YR 6/4) light brown, dense, dry, no odor, no staining. | |
| -1 | | 0.0 | dry | FILL | | crushed CONCRETE, and fine sand, with coarse gravel, (10YR 8/1) white, very dense, dry, no odor, no staining. | 133-P3B-M42A-1.0-1.5 |
| -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, little crushed concrete, fine to medium gravel, (7.5YR 3/1) very dark gray, very dense, dry, | |
| -3— -4— | | | | | | no odor, no staining. | 133-P3B-M42A-3.0-3.5 |
| -5 <u>-</u> | | 0.0 | moist | FILL | | fine to medium SAND, little fine to medium gravel, (7.5YR 3/1) very dark gray, dense, moist, no odor, no staining. | 133-P3B-M42A-5.0-5.£ |
| -7- | 5 | | | | | | 133-P3B-M42A-7.0-7.5 |
| -8 | | 0.0 | moist | FILL | | fine silty SAND, with cinders, ash, little coarse gravel, medium dense, moist, no odor, no staining. | _ |
| -9 | | | | | | | 133-P3B-M42A-9.0-9. |
| -10 | | 0.0 | wet | FILL | | CINDERS, with ash, some fine sand, little fine to medium gravel, (10YR 5/1) gray, medium dense to loose, wet, no | - |
| -11 - -12 | _ | | | | | odor, no staining. | 133-P3B-M42A-11.0-11 |
| -13 - | 5 | | | | | | 133-P3B-M42A-13.0-13 |
| -14 | | 0.0 | moist | FILL | | SILT, trace fine sand, wood debris, (10YR 5/2) grayish brown, low plasticity, soft, moist, no odor, no staining. | - |
| -15 | | 0.0 | wet | FILL | | SILT, trace organics, (10YR 4/1) dark gray, low plasticity, very soft, wet, no odor, no staining. | 133-P3B-M42A-14.8-15 |
| 16 | | 0.0 | moist | PT | <u> </u> | PEAT (degraded vegetated material), 80% organic fibers, | 133-P3B-M42A-15.8-16 |
| - -17 | 5 | 0.0 | moist | OL | | 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, firm, moist, moderate organic odor, | |
| -18 - | | | | | | no staining. Soils consistent with UNDorg. | |
| -19 - | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| - 1 | | | | | 1 | | 1 |

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/11/2014 8:45:00 AM

Boring ID: 133-P3B-M43A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610651.4

Rig Type: Coordinates (NJSPNAD83) y: 682332.9

Date Finished Drilling:4/11/2014 11:02:00 AMCore Size: 2 inBoring Total Depth: 20 ftLogged By:ESProject Manager:Chris MartellDepth to Water:NA

| nysica | ai Locatio | n: P31 | 3 - M43A | | | Elevation: 12.1 f | |
|-----------------------------|---------------------|--------------|-----------------------------|--------------|--|---|-----------------------------------|
| | | | | | | | (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 |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1 - -2 | | 0.0 | dry | FILL | | crushed CONCRETE, with fine to coarse gravel, some fine to medium sand, (10YR 5/1) gray, very dense, dry, no odor, no staining. | |
| -2 -3 -4 - | 5 | 0.0 | dry to moist | FILL | | fine to medium SAND, with cinders, ash, little crushed brick, (7.5YR 2.5/1) black, dry to moist, no odor, no staining. | |
| -5 6 7 -8 | 5 | 0.0 | moist moist to wet | FILL FILL | | fine to medium SAND, with cinders, ash, little fine to medium gravel, trace glass, (7.5YR 2.5/1) black, (10YR 4/1) dark gray, loose, moist, no odor, no staining. GGM, and fine to medium sand, little cinders, ash, trace glass, (10YR 5/1) gray, low plasticity, medium dense to loose, moist to wet, no odor, green staining. | |
| -9 | | 0.0 | moist | FILL | | CINDERS, with ash, little slag, fine to medium gravel, (7.5YR 7/1) light gray, medium dense, moist, no odor, no staining. | 133-P3B-M43A-8.5-9.0 |
| ,, T | | 0.0 | wet | FILL | | fine to medium silty SAND, (5YR 4/3) reddish brown, | |
| -10 - -11 - -12 | 5 | 0.0 | wet | FILL | | medium dense, wet, no odor, no staining. fine to medium silty SAND, with ash, cinders, little fine to medium gravel, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining. | 133-P3B-M43A-10.5-11 |
| -13 | | 0.0 | moist | FILL | | SILT, trace fine sand, fill material, organics, (7.5YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining. | 133-P3B-M43A-12.5-13 |
| -14 - - | | 0.0 | moist | PT | \(\frac{\lambda}{\lambda}\) \(| PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM. | 133-P3B-M43A-13.8-14 |
| -15 -16 -17 | 5 | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, strong organic odor, no staining. Soils consistent with UNDorg. | |
| -18 - -19 - -20 - | 3 | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | | |

Logged By: FM SS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3B-M44A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610638.5

Date Started Drilling: 4/11/2014 10:05:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682306.9 Boring Total Depth: 15 ft Date Finished Drilling: 4/11/2014 11:45:00 AM Core Size: 2.0 in Depth to Water: NA Project Manager: Chris Martell

| hysical Location | on: P3 | B - M44A | | | Elevation | 11.5 ft NAVD88 |
|----------------------|--------------|---------------------|----------|---|---|-----------------------------------|
| | | | | | | (Note bgs = below ground surface) |
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| . 7 | 0.0 | | CONCRETE | PARR | crushed CONCRETE | |
| -1— -2— _ 5 | 0.0 | moist | FILL | | medium to coarse gravelly SAND, some silt, trace fill (10YR 3/3) dark brown, loose, moist, no odor, no stair | lebris, 133-P3B-M44A-1.0-1.5 ing. |
| -3— - -4— - | 0.0 | moist to wet | FILL | | fine to medium silty SAND, trace gravel, trace brick fragments, (10YR 5/1) gray, loose, moist to wet, no or staining. | 133-P3B-M44A-3.0-3.5 lor, no |
| 6- | 0.0 | moist | FILL | | fine to medium silty SAND, trace fill debris, (10YR 4/1 gray, loose, moist. |) dark 133-P3B-M44A-5.0-5.5 |
| -7- | 0.0 | moist | FILL | | fine to medium silty SAND, some large brick fragment | |
| 5 8— 9— | | | | | some medium gravel, (10YR 5/3) brown, loose, moist | |
| 10 | 0.0 | moist to sl. | FILL | | fine to medium silty SAND, some fine gravel, loose, medightly moist, no odor, no staining. | |
| | 0.0 | moist | OL | H | fine organic SILT, trace fill material with organic fibers | , |
| 11— | | moist | | | (7.5YR 3/1) very dark gray, low plasticity, medium der moist, slight organic odor, no staining. Soils consisten UNDorg. | 133-P3B-M44A-11.0-11.9 |
| 5 | | | | | | 133-P3B-M44A-12.0-12.5 |
| 13— | 0.0 | moist | PT | 717 717 717 717 717 717 717 717 717 717 | PEAT (degraded vegetated material), 80% organic fib 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, strong organic odor, no staining. Soils consistent with | moist, |
| | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/17/2014 9:25:00 AM

Date Finished Drilling: 4/17/2014 10:30:00 AM

Boring ID: 133-P3B-M45A

Page: 1

Project Name: PPG Garfield Ave

Rig Type:

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610624.5 Coordinates (NJSPNAD83) y: 682281.2

Boring Total Depth: 15 ft

Core Size: 2 in

| | IBy: ES | | | | P | | Depth to Water: NA | |
|---------------------------|---------------------|---------------|---------------------|--------------|----------------|---|-------------------------------------|-----------------------------------|
| Physica | al Location | 1: P3E | 3 - M45A | | | | Elevation: 11.4 ft N | AVD88 bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thicknes | | Sample ID |
| | | 0.0 | dry | ASPHALT | ×××× | ASPHALT | | 133-P3B-M45A-0.2-0.7 |
| , 7 | | 0.0 | dry | FILL FILL | | fine SAND, and fine to medium gravel, (10) brown, loose, dry, no odor, no staining. | YR 5/2) grayish | 100 1 0D WHO/ |
| | | 0.0 | ury | 1166 | | fine to medium SAND, some wood debris, I gravel, trace glass, ash, (7.5YR 3/2) dark b | ittle cinders, fine rown, medium | |
| -2 | 5 | | | | | dense, dry. | | 133-P3B-M45A-2.0-2.5 |
| -3 | | | | | | | | |
| -4 | | | | | | | | 133-P3B-M45A-4.0-4.5 |
| -5- | | 0.0 | moist | FILL | | fine to medium silty SAND, little glass, trace dense, moist, no odor, no staining. | e ash, medium | |
| -6- | | 0.0 | | | | | | 133-P3B-M45A-6.0-6. |
| -7— — | 3.5 | 0.0 | wet | FILL | | fine to medium silty SAND, some ash, little medium gravel, (10YR 4/1) dark gray, medi no odor, no staining. | cinders, fine to ium dense, wet, | |
| -8- | | | | NR | | NO RECOVERY | | 133-P3B-M45A-8.0-8.5 |
| -9 | | | | | | | | |
| -10 | | 0.0 | wet | FILL | | fine to coarse silty SAND, little ash, trace fing 3/1) very dark gray, medium dense, wet, no | ne gravel, (7.5YR | 133-P3B-M45A-10.2-10 |
| -11 | | 0.0 | moist to wet | OL | | \staining. UNDorg SILT, 80% organic fibers, 20% org soft, moist to wet, slight organic odor, no sta | ganic silt, very | 133-P3B-M45A-10.7-11 |
| -12 | 1.7 | | | NR | | consistent with UNDorg. NO RECOVERY | dirining. Solic | |
| -13 | | | | | | | | |
| -14 | | | | | | | | |
| -15 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/17/2014 8:10:00 AM

Boring ID: 133-P3B-M46A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610610.3 Rig Type: Coordinates (NJSPNAD83) y: 682253.0

Boring Total Depth: 20 ft Date Finished Drilling: 4/17/2014 9:20:00 AM Core Size: 2 in Depth to Water: NA Project Manager: Chris Martell Logged By: ES

Physical Location: P3B - M46A

| _ | | | | | | (NOI | e bgs = below ground surface) |
|----------------------------|------------------------|--------------|---------------------|----------------|----------------|--|-------------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | ASPHALT | -XXXXX | ASPHALT | |
| -1 | | 0.0 | u., | FILL | | fine to medium SAND, little fine to medium gravel, crushed concrete, trace wood debris, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining. | 133-P3B-M46A-1.0-1.5 |
| -2 - | 5 | | | | | | |
| -3 - -4 | | | | | | | 133-P3B-M46A-3.0-3.5 |
| -5 | | 0.0 | moist | FILL | | fine to medium silty SAND, some fine gravel, little brick fragments, trace glass, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining. | |
| -6 - | | 0.0 | moist to wet | FILL | | fine to medium silty SAND, some wood debris, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, medium dense, moist to wet, no odor, no staining. | 133-P3B-M46A-5.0-5. |
| -7— - -8— | 5 | | | | | | 133-P3B-M46A-7.0-7. |
| -9 - | | | | | | | 133-P3B-M46A-9.0-9. |
| -10 - -11 | | 0.0 | wet | FILL | | CINDERS, with fine to medium gravel, some wood debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | |
| ''] | | 0.0 | wet | FILL | | fine to medium silty SAND, some wood debris, (7.5YR 3/2) | 133-P3B-M46A-11.0-11 |
| -12 -13 -14 -15 | 5 | 0.0 | dry | OL | | dark brown, medium dense, wet, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, medium stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3B-M46A-11.5-12 |
| -16 | | 0.0 | moist | OL | | UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| -17 -17 -18 | 5 | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| -19 | | | | | | | |
| -20 | | | | | <u> </u> | | |
| | | | | | | | |
| Commer | n ts: 1) 3 atte | empts w | ere made to | obtain best re | ecovery 2) U | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | val of t |



Boring ID: 133-P3B-N37A

Page: 1

| | | | | Orilling Method: Geoprobe | Coordinates (NJSP | NAD83) x: 610759.7 |
|---------------|---------------------|---|--|--|---|---|
| | | 4 | l. | · - | | |
| ng: _ | | 11:40:00 AM | | | | NAD83) y: 682480.9 |
| | 5/20/2013 | 3 10:40:00 AN | | | Boring Total Depth: | |
| | | |] | | Depth to Water: NA | |
| Site | e 133 - N3 | 7A | | | Elevation: 11.2 ft N | |
| $\overline{}$ | | | | | (Not | e bgs = below ground surface) |
|) | Maiat | | Cr ! | | | 0 |
| | Moisture Content | USCS | Graphic | Surface Cover and Thickne | ess: | Sample ID |
| pm) | Content | | Log | | | טו |
| 10 | _1 | F" ' | XXXXX | mandium CAND to a firm the second | 1. (7.EVD 0/4) | |
| 0.0 | dry | FILL | | medium SAND, trace fine gravel, little sil | It, (7.5YK 3/4) | |
| 0.0 | moist | FILL | \bowtie | dark brown, non plastic, loose, dry, no occope, little fine sand and silt, (5YR 3/2) | | |
| | | | \bowtie | brown, non plastic, loose, moist, no odor | | |
| | | | \bowtie | brown, non plastic, 1003c, 1101st, 110 0001 | , no stanning. | |
| 0.0 | | NR | XXXXX | NO RECOVERY | | |
| 0.0 | wet | FILL | \bowtie | COPR, little fine to medium sand and gra | | |
| | | | \bowtie | dark reddish gray, non plastic, loose, we | | |
| | | | \bowtie | staining. | | |
| | | | | | | |
| 3.7 | | F | | OII Tourist for the state of th | tale for our and | |
| ۱.د | moist | FILL | \bowtie | SILT, with fine to medium sand, trace bri | | |
| | | | \bowtie | (7.5YR 2.5/1) black, non plastic, soft, mo chemical-like odor. | ust, siignt | |
| | | | \bowtie | chemical-like odor. | | |
| | | | | | | |
| 0.0 | | NR | <u> </u> | NO RECOVERY | | |
| 0.0 | moist | FILL | \bowtie | SILT, some sand, trace fill material, (7.5) | | |
| | | | \bowtie | non plastic, soft, moist to wet, no odor, n | no staining. | |
| | | | \bowtie | | | |
| | | | \bowtie | | | |
| | | | | | | |
| 0.0 | moist | FILL | \bowtie | SILT, some fine sand, little fine gravel, (7 | | |
| 0.0 | dry | CONCRETE | PAAA | black, non plastic, soft, moist, no odor, n | | |
| 0.0 | moist | FILL | | CONCRETE, (5GY 6/2) light grayish gre hard, dry, green staining. | en, non plastic, | 133-P3B-N37A-9.0-9. |
| 0.0 | 1 | NR | <u> </u> | medium silty SAND, trace fine gravel, (7 | 5YR 2 5/1) | |
| | | | XXXXX | black, non plastic, loose to soft, moist, n | | |
| 3.9 | moist | FILL | \bowtie | \staining. | // | |
| | | | \bowtie | NO RECOVERY | | |
| | | | \bowtie | medium to coarse SAND, trace fine grav | | 133-P3B-N37A-11.0-11 |
| | | | \bowtie | very dark gray, non plastic, loose, moist, | sheen, with | |
| 0.6 | ma c ! = 4 | FIL. | | oil-like odor. | L (7.5)(D.2)(1) | |
| 8.6 | moist | FILL | \bowtie | medium to coarse SAND, trace fine grav | | |
| | | | \bowtie | very dark gray, non plastic, loose, moist, | sneen, with | |
| 5.8 | moist | FILL | | oil-like odor. medium to coarse SAND, trace fine to co | naree gravel | 133-P3B-N37A-13.0-13 |
| | | - | \bowtie | (7.5YR 3/2) dark brown, non plastic, loos | | |
| 26 | | - | | odor, slight sheen. | , moist, mo | |
| 126 | wet | FILL | \bowtie | fine to medium CINDERS, little gravel, lit | ttle fine to coarse | |
| 16 | | F | | sand, (10YR 3/2) very dark grayish brow | | |
| 1.6 | moist | FILL | \bowtie | loose, wet, moderate tar odor, sheen. | / | 133-P3B-N37A-15.0-15 |
| 0.0 | | NR | <u> </u> | SILT, some fine to medium sand, little ci | | |
| 3.5 | maint | | XXXXX | 4/2) dark grayish brown, low plasticity, so | oft, moist to wet, $/$ | |
| ا د.ر | moist | FILL | \bowtie | \slight tar odor, sheen. | // | |
| | | | \bowtie | NO RECOVERY | modium sindara | |
| | | | \bowtie | fine to medium silty SAND, some fine to (10YR 2/1) black, non plastic, loose, mo | | 133-P3B-N37A-17.0-17 |
| | | | \bowtie | moderate tar odor, sheen. | iot to vvot, | 133-P3B-N37A-17.6-18 |
| 3.3 | moist | FILL | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | fine to medium silty SAND, little roots, (1 | INVP 4/2) dark | |
| 0.8 | moist | DT | 1 — — | aravish brown non plactic loose moist | 10 11 7/2) uaik | 133-P3B-N37A-18.1-18 |
| 0.0 | 1110131 | '' | 1/ 7/V 7 | PEAT (degraded vegetated material), 80 |)% organic fibers | |
| | | | 11/ 11/ | 20% organic silt little fine silty sand, (10) | | |
| | | | /, N/, \ | I because Table at a street and attended to the control of the con | | |
| \dashv | | | / \./ \ | sulfur odor. Soils consistent with MM. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| ots | s we | s were made to | s were made to obtain best reco | s were made to obtain best recovery 2) M | s were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick. | were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick. |



PPG LOGS.GDT - 8/6/13 09:54

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

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3B-N38A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610746.2 Date Started Drilling: 5/17/2013 10:30:00 AM Coordinates (NJSPNAD83) y: 682454.1 Rig Type: **Date Finished Drilling:** 5/17/2013 11:35:00 AM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: NA Logged By: EW Project Manager: Chris Martell Elevation: 11.5 ft NAVD88 Physical Location: Site 133 - N38A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry FILL fine to medium SAND, little fine gravel, (7.5YR 4/1) dark 0.0 wet FILL gray, non plastic loose, dry, no odor, no staining. 1.8 COPR, trace fine sand, little silt, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. NO RECOVERY NR 4.6 wet COPR, trace fine sand, little silt, (5YR 4/3) reddish **FILL** brown, non plastic, loose, wet, no odor, no staining. 1.6 8.0 **FILL** fine to medium SAND, and silt, little fine gravel, (7.5YR moist 3/1) very dark gray, non plastic, soft, moist, no odor, no NR 0.2 staining moist FILL NO RECOVERY medium SAND, with silt, little fine to medium gravel, 1.8 (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining. NO RECOVERY NR 0.0 moist medium SAND, with silt, little fine to medium gravel, FILL 0.0 (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no moist **FILL** 2 0.0 **FILL** moist medium SAND, with fine to medium gravel and silt, (7.5YR 4/1) dark gray, non plastic, soft to loose, moist, 0.0 wet FILL no odor, no staining, some ash. silty SAND, and medium gravel, trace ash, (7.5YR 5/1) 0.0 moist **FILL** 1.7 gray, non plastic, soft to loose, moist, no odor, no medium to coarse SAND, with fine to medium gravel, NR (10YR 5/3) brown, non plastic, loose, wet, no odor, no 0.0 FILL staining. GGM, some silt, (5GY 5/2) grayish green, non plastic, 1.9 soft, moist, no odor, green staining. NO RECOVERY medium to coarse SAND, trace COPR, little fine gravel, NR 0.0 moist (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no FILL staining 2 0.0 moist **FILL** NO RECOVERY 13 medium to coarse SAND, with fine gravel, (10YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining. 0.0 FILL moist SILT, little sand and roots, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining. 14 medium silty SAND, with roots, trace fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining. NR NO RECOVERY -16 133-P3B-N38A-16.0-16.5 0.0 FILL moist medium silty SAND, with roots, trace fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining. 133-P3B-N38A-16.5-17.0 1.3 moist PT 1.8 PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no -18 NR staining. Soils consistent with MM. NO RECOVERY



PPG LOGS.GDT - 8/6/13 09:54

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

Piscataway, NJ 08854

Boring ID: 133-P3B-N39A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610732.7 Date Started Drilling: 5/17/2013 8:35:00 AM Coordinates (NJSPNAD83) y: 682427.3 Rig Type: **Date Finished Drilling:** 5/17/2013 10:25:00 AM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: NA Logged By: EW Project Manager: Chris Martell Elevation: 10.9 ft NAVD88 Physical Location: Site 133 - N39A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry FILL fine to medium SAND, with fine gravel and glass fragments, (10YR 3/6) dark yellowish brown, non plastic, 0.0 moist FILL 1.6 loose, dry, no odor, no staining. COPR, little fine sand and silt, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining. NR NO RECOVERY 0.0 moist FILL COPR, little fine sand and silt, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining. 2 0.0 **FILL** SILT, with fine sand, little fine gravel, (10YR 5/2) grayish moist brown, non plastic, soft, moist, no odor, no staining. 0.0 FILL moist SILT, with sand, trace fine gravel, (7.5YR 2.5/1) black, moist FILL 1.8 non plastic, soft to loose, moist to wet, no odor, no 2 staining. 0.6 moist **FILL** SILT, some sand and roots, (7.5YR 2.5/2) very dark brown, non plastic, soft to loose, moist, no odor, no 0.0 FILL moist fine to medium sandy SILT, trace fine gravel, (7.5YR 4/2) FILL 0 0 moist brown, non plastic, soft, moist, no odor, no staining. 1.5 SILT, some COPR and fine sand, (7.5YR 3/4) dark 0.0 brown, non plastic, soft, moist, no odor, no staining.
GGM, some silt, (10Y 5/2) grayish olive, non plastic, soft, **FILL** moist NR moist, green staining.
fine to medium SAND, with ash and fine gravel, (7.5YR 133-P3B-N39A-8.0-8.5 0.0 moist **FILL** 4/1) dark gray, non plastic, soft, moist, no odor, no NR staining.
NO RECOVERY fine to medium SAND, with ash and fine gravel, (7.5YR 133-P3B-N39A-10.0-10.5 0.0 moist FILL 4/1) dark gray, non plastic, soft, moist, no odor, no 0.0 moist FILL staining, trace silt and ceramics. 1.8 NO RECOVERY fine to medium SAND, and silt, little fine gravel, (7.5YR 3/2) dark brown, non plastic, soft, moist to wet, no odor, NR 133-P3B-N39A-12.0-12.5 0.0 wet no staining. FILL fine SAND, with silt, little wood fragments, (7.5YR 4/2) 17 brown, non plastic, soft, moist, no odor, no staining -13 0.0 NO RECOVERY moist FILL medium to coarse SAND, some fine gravel and ash, NR (7.5YR 4/1) dark gray, non plastic, loose, wet, no odor, 0.0 133-P3B-N39A-14.0-14.5 moist FILL no staining 133-P3B-N39A-14.5-15.0 0.8 moist OL medium SAND, with silt and roots, (7.5YR 3/3) dark 18 brown, non plastic, soft, moist, no odor, no staining. NO RECOVERY 1.4 PT moist medium SAND, with silt and roots, (7.5YR 3/3) dark -16 NR brown, non plastic, soft, moist, no odor, no staining. UNDorg SILT, with organics, (7.5YR 3/4) dark brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with MM. NO RECOVERY

AECOM

Boring ID: 133-P3B-N40A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 610719.2 Drilling Method: Geoprobe Date Started Drilling: 12/16/2013 10:46:00 AM Coordinates (NJSPNAD83) y: 682400.5 Rig Type: Date Finished Drilling: 12/16/2013 Core Size: 3 in Boring Total Depth: 20 ft Logged By: A. Bogucki Depth to Water: Project Manager: Surface Elevation: 10.9 ft NAVD88 Physical Location: Site 133 - N40A Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) FILL fine to medium silty SAND, some gravel, subangular, (10YR moist 1.0 4/2) dark grayish brown, non plastic, loose, moist, moderate moist **FILL** petroleum odor, no staining. to COPR, little fine to medium sand, little gravel, subangular, wet (5YR 4/4) reddish brown, non plastic, loose, moist to wet, slight petroleum odor, no staining. 5 618 **FILL** fine SAND, some GGM, some gravel, (10YR 4/1) dark gray, moist to non plastic, medium dense, moist to wet, strong petroleum wet odor, sheen. 24.7 wet **FILL** fine to coarse GRAVEL, angular, little fine to medium sand, little GGM, (5YR 4/1) dark gray, non plastic, loose, wet, slight petroleum odor, green staining. 5 3.7 133-P3B-N40A-8.5-9.0 **FILL** ASH, some cinders, (10YR 3/1) very dark gray, non plastic, wet loose, wet, slight burn odor. 0.0 FILL fine to medium SAND, some rock fragments, some glass, wet (5YR 4/3) reddish brown, non plastic, medium dense, wet, 0.0 FILL wet no odor, no staining. 133-P3B-N40A-10.5-11.0 fine to medium SAND, some ash, some gravel, (10YR 4/1) dark gray, non plastic, medium dense, wet, no staining, slight burn odor. 12 5 133-P3B-N40A-12.5-13.0 13 0.0 moist FILL SILT, little ash, little organics, (10YR 2/2) very dark brown, non plastic, soft, moist, slight burnt odor. 133-P3B-N40A-14.5-15.0 133-P3B-N40A-15.0-15.5 10.7 PT PEAT (degraded vegetated material), 90% organic silt, 10% moist organic fibers, (10YR 4/2) dark grayish brown, high V VV V plasticity, soft, moist, slight organic odor, no staining. Soils 16 11, 11, consistent withMM. 1/ 1// 1 <u>\\\/</u> \\\/ 5 11/ 11/ 11/ V VV V 11, 11, 11,

Notes

A.GDT - 3/28/22

2012-09 RA PPG LOGS

bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue GGM - green grey mud

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

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

MGP - manufactured gas plant CCPW - chromate chemical production waste



Boring ID: 133-P3B-N41A

Page: 1

| Sarfield Ave | Drilling Company: SGS North America | | Page: |
|-----------------------------------|--|---|---|
| | Drilling Method: Geoprobe | Coordinates (NJSPN | IAD83) x: 610705.7 |
| 7/10/2013 9:00:00 AM | Rig Type: | Coordinates (NJSPN | AD83) y: 682373.7 |
| 7/10/2013 10:00:00 AM | Core Size: 3 in | Boring Total Depth: | 15 ft |
| | Project Manager: Chris Martell | Depth to Water: | |
| te 133 - N41A | | Elevation: 12.5 ft NAV | |
| | | (Note i | bgs = below ground surface) |
| Moisture Content USCS Graphic Log | Surface Cover and Thickn | ess: | Sample ID |
| moist FILL | fine silty SAND, little coarse gravel, (7.5 | YR 3/3) dark / | |
| wet FILL | brown, non plastic, loose to soft, moist, staining. medium to coarse SAND, some fine to little crushed concrete, (10YR 6/6) brow plastic, very loose, wet, no odor, no stai | no odor, no medium gravel, rnish yellow, non | |
| wet FILL NR | medium to coarse SAND, some fine to little crushed concrete, trace brick, (10Y yellow, non plastic, very loose, wet, no compared to the control of the contr | medium gravel, (R 6/6) brownish | |
| und FILL XXX | NO RECOVERY | | 133-P3B-N41A-4.0-4.5 |
| wet FILL | medium to coarse SAND, some fine to little crushed concrete, trace brick, (10Y | | 100-1 0D-144 1A-4.U-4.0 |
| NR | yellow, non plastic, very loose, wet, no o | | |
| wet FILL | medium to coarse SAND, some fine to little crushed concrete, trace brick, (10Y yellow, non plastic, very loose, wet, no complete the second sec | R 6/6) brownish | 133-P3B-N41A-6.0-6.5 |
| moist FILL | fine to medium SAND, with cinders, son | ne ash, little coal, | |
| NR | \ (5YR 3/3) dark reddish brown, non plast | | |
| slightly FILL moist | \no odor, no staining. \NO RECOVERY fine silty SAND, some ash, some cinder wood fragments, (10YR 4/2) dark grayis | rs, little coal, | 133-P3B-N41A-8.0-8.5 |
| NR NR | plastic, loose to soft, slightly moist, no c | | |
| wet FILL | NO RECOVERY fine to medium SAND, with cinders, son ceramics, trace brick, (10YR 5/6) yellow | ne coal, little | 133-P3B-N41A-10.0-10 |
| NR | plastic, loose, wet, no odor, no staining. NO RECOVERY | | |
| wet FILL | fine to medium SAND, with cinders, son ceramics, (7.5YR 3/1) very dark gray, no | | 133-P3B-N41A-12.0-12. |
| moist FILL | wet, no odor, no staining. SILT, some fine sand, little roots, coal, o | cinders (7.5YR | 133-P3B-N41A-13.0-13 |
| moist OL VI VI | 4/2) brown, low plasticity, soft, moist, no staining. | o odor, no | 133-P3B-N41A-13.5-14 |
| dry PT | UNDorg SILT, 90% organic silt, 10% org | | |
| | (7.5YR 3/4) dark brown, moist, moderat no staining. Soils consistent with UNDoi PEAT (degraded vegetated material), 8t 20% organic silt, (7.5YR 3/3) dark brown stiff, dry, strong organic odor, no stainin consistent with MM. PEAT (degraded vegetated material), 8t 20% organic silt, (7.5YR 3/3) dark brown stiff, dry, strong organic odor, no stainin consistent with MM. | ow organic fibers, n, non plastic, g. Soils ow organic fibers, n, non plastic, | |
| vere ma | de to obtain best recovery 2) N | de to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COF | de to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) encountered in |

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/10/2014 10:30:00 AM

Date Finished Drilling: 4/10/2014 11:00:00 AM

Boring ID: 133-P3B-N42A

Coordinates (NJSPNAD83) x: 610692.5

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America

Drilling Method: Geoprobe

Rig Type: Coordinates (NJSPNAD83) y: 682348.1

Core Size: 2 in Boring Total Depth: 15 ft

Project Manager: Chris Martell Depth to Water: NA

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3B - N42A
 Elevation:
 11.2 ft NAVD88

| | а Бу. іміі al Locatio | Δ\/D88 | | | | | | |
|----------------------------|--------------------------|--------------|----------------------------|----------|--|---|-----------------|--|
| Filysic | ai Lucatiu | II. F31 | 3 - IN42A | | | Elevation: | | bgs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | · | Sample ID |
| | | 0.0 | moist | FILL | | fine to medium silty SAND, with crushed concrete, (7.5 2.5/3) very dark brown, loose, moist, no odor, no stainii | SYR ng. | |
| 1 | 5 | 27.0 | moist | FILL | | fine to medium SAND, some cinders, coal, ash, little fir gravel, trace brick, (7.5YR 2.5/3) very dark brown, loos moist, moderate hydrocarbon odor, sheen. | ne e, | |
| 4 | | 0.0 | moist | FILL | | GGM, with COPR, some cinders, ash, fine gravel, (2.5 6/1) reddish gray, moist, no odor, green staining. | YR | |
| 6 | - | 0.0 | moist | FILL | | fine to medium SAND, with cinders, some coal slag, tracoarse gravel, trace brick, (7.5YR 4/1) dark gray, loose moist, no odor, no staining. | ace , | 133-P3B-N42A-5.0-5.5 |
| 7 8 | 5 | | | | | | | 133-P3B-N42A-7.0-7.5 |
| 9 10 | | 0.0 | moist | FILL | | fine to medium silty SAND, trace cinders, (7.5YR 3/2) brown, loose to dense, moist, no odor, no staining. | dark | 133-P3B-N42A-9.0-9.5 |
| | _ | 0.0 | moist to wet | FILL | | fine to medium silty SAND, with fine gravel, trace fibers wood fragments, (10YR 4/2) dark grayish brown, moist wet, no odor, no staining. | s, t to | 133-P3B-N42A-10.3-10.8 133-P3B-N42A-10.8-11.3 |
| 12 13 14 15 | 5 | 0.0 | moist slightly moist | OL PT | 77 77 77 77 77 77 77 77 77 77 77 77 77 | UNDorg SILT, 90% organic silt, 10% organic fibers, (7. 3/2) dark brown, low plasticity, soft, moist, slight organi odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fiber 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, smoist, strong organic odor, no staining. Soils consisten MM. | rs, slightly | 100 1 05 14421 10:0 11:0 |
| | | | | | | | | |

PPG - PPG_LOGS.GDT - 6/19/14 10:14

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

Boring ID: 133-P3B-N43A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610679.5 Date Started Drilling: 4/10/2014 10:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682319.2 Date Finished Drilling: 4/10/2014 10:25:00 AM Core Size: 2 in Boring Total Depth: 20 ft Logged By: MI Depth to Water: NA Project Manager: Chris Martell

| Depth Range (ff bgs) | Recovery (ft/ft) | PID (ppm) 0.0 0.0 0.0 180.3 | Moisture Content moist | USCS CONCRETE FILL | Graphic Log | Surface Cover and Thickness: | bgs=below.ground.surface) Sample ID |
|----------------------|---------------------|---------------------------------|------------------------------|--------------------------|---|--|-------------------------------------|
| Range (ft bgs) | (ft/ft) | 0.0 0.0 0.0 | Content | CONCRETE | | Surface Cover and Thickness: | |
| | 4 | 0.0 | | | 100000000000000000000000000000000000000 | | |
| | 4 | 0.0 | | | | CONCRETE | |
| | 4 | | al.a | | | fine to medium silty SAND, some cinders, trace coal, (7.5YR 4/6) strong brown, loose to dense, moist, no odor, no | |
| | 4 | 180.3 | dry | FILL | \bowtie | staining. | |
| | 4 | | moist | FILL | | crushed CONCRETE, (9.5/2.5Y_/1) white, loose, dry, no odor, slight green staining. | |
| -3— -4— | | 0.0 | moist | FILL | | fine to medium SAND, some cinders, fine gravel, little coal slag, (7.5YR 2.5/1) black, loose, moist, strong hydrocarbon | |
| -4- | | | | | | odor, sheen. GGM, some fine sand, little COPR, fine gravel, trace salt | |
| | | | | | | percipitate, (5GY 4/2) dark grayish brown, stiff, moist, no | |
| - | | | | NR | | \odor, green staining. NO RECOVERY | |
| -5- | | 0.0 | moist | FILL | | GGM, and cinders, some fine to medium sand, fine gravel, | |
| -6- | | | | | | trace ash, coal, (5GY 3/2) very dark grayish green, dense, moist, no odor, green staining. | |
| -7- | | | | | | | |
| , H | 5 | | | | | | |
| -8- | | 0.0 | slightly | FILL | | BRICK, (5R 5/8) red, hard, slightly moist, no odor, no | 133-P3B-N43A-8.3-8. |
| -9- | | 0.0 | moist moist | FILL | | staining. fine to medium silty SAND, little cinders, fine gravel, trace | 100 1 02 1110/10.0 0.0 |
| | | | 1110101 | | | coal, (7.5YR 3/2) dark brown, dense, moist, no odor, no staining. | |
| -10 | | 0.0 | moist | FILL | | CINDERS, with ash, some fine to medium sand, fine gravel, | 133-P3B-N43A-10.3-10 |
| -11 | | | | | | little ceramics, fill material, coal, loose, moist, no odor, no staining. | 133-P3B-N43A-11.0-11 |
| \dashv | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR | 133-P3B-N43A-11.5-12 |
| -12 | _ | 0.0 | slightly | PT | <u> </u> | \ 3/3) dark brown, soft to stiff, moist, slight organic odor, no \ \ | |
| -13 | 5 | | moist | | <u> </u> | \staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 70% organic fibers, | |
| - | | | | | 1, 11, 1 | 30% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM. | |
| -14 | | | | | <u> </u> | | |
| -15 | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR | |
| | | | | | | 5/2) grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with | |
| | | | | | | UNDorg. | |
| -17 | 5 | | | | | | |
| -18 | | | | | | | |
| | | | | | <u> </u> | | |
| -19 | | | | | | | |
| - | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | JND/MM confirmed to be 1 ft thick. | |

Boring ID: 133-P3B-N44A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610664.9 Date Started Drilling: 4/11/2014 8:50:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682293.9 Date Finished Drilling: 4/11/2014 9:55:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell

| | | | | | (No | te bgs = below ground surface) |
|---------------------|---------------------|---------------------------|---|------------------|--|---|
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| | 0.0 | | CONCRETE | P & 4 P 4 | crushed CONCRETE | |
| 5 | 0.0 | moist | FILL | | medium to coarse silty SAND, some crushed concrete, medium gravel, some ash, (10YR 3/1) very dark gray, dense, moist, no odor, no staining. | |
| | 0.0 | moist to wet | FILL | | fine to medium gravelly SAND, trace silt, (10YR 3/6) dark yellowish brown, medium dense, moist to wet, no odor, no staining. | |
| 5 | 0.0 | wet to | FILL | | medium to coarse gravelly SAND, some silt, trace organic fibers, (10YR 3/1) very dark gray, medium dense, wet to | 133-P3B-N44A-6.0-6. |
| 3 | 0.0 | moist to | FILL | | medium to coarse gravelly SAND, trace silt, trace organics, (10YR 3/2) very dark grayish brown, loose, moist to wet, no | 133-P3B-N44A-8.0-8. |
| | 0.0 | wet moist to wet | FILL | | odor, no staining. medium to coarse gravelly SAND, some ash and cinders, some glass and brick fragments, (10YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | |
| | 0.0 | moist to wet | FILL | | fine to coarse gravelly SAND, some silt, some ash and cinders, trace brick fragments, (10YR 5/1) gray, loose, moist to wet, no odor, no staining. | 133-P3B-N44A-10.0-10 |
| 5 | 0.0 | | FILL | | medium to coarse silty SAND, (10YR 4/1) dark gray, | 133-P3B-N44A-12.0-12 |
| | | | | | medium dense, no odor, no staming. | 133-P3B-N44A-14.0-14 |
| | 0.0 | | FILL | | medium to coarse silty SAND, (10YR 4/1) dark grav. | 133-P3B-N44A-15.0-15 |
| | 0.0 | slightly moist | OL | | medium dense, no odor, no staining. SILT, 80% organic silt, 20% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with | 133-P3B-N44A-15.5-16 |
| 5 | 0.0 | slightly moist | OL | | UNDorg. SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | |
| | Recovery (ft/ft) 5 | Recovery (ft/ft) (ppm) | (ft/ft) (ppm) Content 0.0 0.0 0.0 0.0 0.0 moist 5 0.0 0.0 wet to saturated moist to wet 0.0 moist to wet 0.0 moist to wet 5 0.0 0.0 slightly moist 5 0.0 5 0.0 0.0 slightly | Recovery (ft/ft) | Content | Recovery (ft/ft) PID Content USCS Graphic Content USCS Graphic Content USCS Graphic Surface Cover and Thickness: 0.0 |

Boring ID: 133-P3B-N45A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610651.4 Date Started Drilling: 4/17/2014 9:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682265.9 Boring Total Depth: 15 ft Date Finished Drilling: 4/17/2014 10:20:00 AM Core Size: 2.0 in

Depth to Water: NA Logged By: MI, SS Project Manager: Chris Martell Physical Location: P3B - N45A Elevation: 11.1 ft NAVD88

| Physical Location: P3B - N45A Elevation: 11.1 ft NAVD88 (Note bgs = below ground surface) | | | | | | | | |
|--|------------------|----------------------|------------------|------------------|--|--|--|--|
| /f+/f+\ | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | bgs≡below.ground.surface) Sample ID | | |
| | 0.0 | dry | ASPHALT FILL | | ASPHALT fine to medium SAND, with ash, trace coarse gravel, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining. | 133-P3B-N45A-0.2-0.7 | | |
| 5 | 0.0 | dny | FILL | | fine to medium SAND little fine to medium gravel little | 133-P3B-N45A-2.0-2.5 | | |
| - | 0.0 | dry | 1122 | | crushed concrete, trace roots, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining. | 133-P3B-N45A-4.0-4.5 | | |
| | 0.0 | moist to | FILL | | coarse GRAVEL, some fine to medium sand, trace brick, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no | | | |
| - | 0.0 | | | | | 133-P3B-N45A-6.0-6.5 | | |
| 5 | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, moist, no odor, no staining. | 133-P3B-N45A-8.0-8.5 | | |
| - | | | | | | | | |
| | 0.0 | dry | FILL | | fine to medium silty SAND, little coarse gravel, little organic fibers, trace coal, (7.5YR 4/2) brown, loose, dry, no odor, no staining | 133-P3B-N45A-10.0-10.5 | | |
| | | | | | sandy SILT, little cinders, trace coal, (7.5YR 4/2) brown, | 133-P3B-N45A-11.0-11.5 | | |
| 5 | 0.0 | to moist moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/2) very dark brown, low plasticity, soft to stiff, dry to moist, no odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft to stiff, moist, slight organic odor. Soils consistent with UNDorg. | 133-P3B-N45A-11.5-12.0 | | |
| | | | | | | | | |
| | Recovery (ft/ft) | Recovery (ft/ft) | Recovery (ft/ft) | Recovery (ft/ft) | Recovery (ft/ft) PID (ppm) Moisture Content USCS Graphic Log 0.0 dry FILL 0.0 dry FILL 0.0 moist to wet 0.0 dry FILL 0.0 dry FILL | Recovery (ppm) Moisture (ppm) Moistu | | |

PPG_LOGS.GDT - 6/19/14 10:14

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/10/2014 8:20:00 AM

Boring ID: 133-P3B-N46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610635.7 Rig Type: Coordinates (NJSPNAD83) y: 682240.9

Date Finished Drilling: 4/17/2014 9:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: MI

Physical Location: P3B - N46A Elevation: 11.1 ft NAVD88

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|--------------------------|----------|-------|-----------|------|----------------|---|----------------------|
| ange t bgs) | (ft/ft) | (ppm) | Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| , - | | 0.0 | wet | FILL | | fine to medium silty SAND, some ash, little wood fragments, trace roots, (7.5YR 2.5/3) very dark brown, loose, wet, no | 133-P3B-N46A-0.0-0.5 |
| -1 | | 0.0 | dry to | FILL | | odor, no staining. ASH, some cinders, little crushed concrete, trace coarse gravel, (7.5YR 4/2) brown, loose, dry to moist, no odor, no | |
| -3- | 5 | | moist | | | staining. | 133-P3B-N46A-2.0-2.5 |
| -4 | | | | | | | 133-P3B-N46A-4.0-4.9 |
| 5 | | 0.0 | moist | FILL | | ASH, some fine to medium sand, some cinders, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, no odor, no | - |
| -6— - -7— | 5 | | | | | staining. | 133-P3B-N46A-6.0-6.9 |
| 9 | | 0.0 | moist | FILL | | fine to medium silty SAND, some ash, trace ceramics, trace wood, (7.5YR 2.5/1) black, loose, moist, no odor, no staining. | 133-P3B-N46A-8.0-8. |
| 10 | | 0.0 | moist | FILL | | fine to coarse SAND, some fine to coarse gravel, little cinders, trace wood fragments, (7.5YR 2.5/1) black, loose, | 133-P3B-N46A-10.0-10 |
| 11— | | 0.0 | dry to | OL | | moist, no odor, no staining. UNDorg SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, non plastic, soft to stiff, dry to moist, slight organic | 133-P3B-N46A-11.0-11 |
| 12— 13— 14— 15— | 5 | | moist | | | odor, no staining. Soils consistent with UNDorg. | |
| 16 — | 5 | 0.0 | dry | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 6/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 18 - | | | | | | | |
| 20 | | 0.0 | dry | OL | | UNDorg SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 133-P3B-O37A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610786.5

Date Started Drilling: 7/8/2013 2:09:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682467.4

Date Finished Drilling: 7/9/2013 9:00:00 AM Core Size: 3 in Boring Total Depth: 20 ft

| | | g. | 11312013 | 9:00:00 AM | | Core Size: 3 in Project Manager: Chris Martell | Boring Total Depth: Depth to Water: NA | |
|-----------------------------|-----------------------|--------------|---------------------|------------------|----------------|--|---|--|
| | d By: AB | n. Cit. | 122 02 | 7.4 | F | roject manager: Chris Marteil | | |
| Physica | al Location | n: 510 | e 133 - O3 | /A | | | Elevation: 11.5 ft N | NAVD88 te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | • | Sample ID |
| | | 0.0 | dry | CONCRETE | PAP | CONCRETE, weathered, (10YR 6/1) g | ray, non plastic, | |
| -1- | 2 | 0.0 | slightly moist | FILL | | dense, dry. COPR, little gravel, (5YR 3/4) dark rediplastic, medium dense, slightly moist. | dish brown, non | |
| -2- 3- | 2 | 0.0 | moist | FILL | | COPR, some fine to medium sand son 3/2) dark reddish brown, non plastic, m moist. | ne gravel, (5YR edium dense, | |
| | | 0.0 | moist | FILL | | ASH, some GGM, little fine sand, (10Y plastic, loose, moist, moderate petrolet | R 2/1) black, non um odor, sheen. | |
| _ | 2 | 0.0 | moist | FILL | | ASH, some GGM, little cinders, (10YR plastic, medium dense, moist, slight pe | | |
| -5 -6 | 2 | 0.0 | moist | FILL | | sheen. GGM, little salt precipitate, (5GY 6/2) li non plastic, medium dense, moist. | | |
| 0 | | 0.0 | moist | FILL | | GGM, some cinders, (5GY 6/2) light gr | ayish green, non | |
| -7- | 2 | 0.0 | moist moist | FILL | | plastic, medium dense, moist to wet. fine to medium SAND, some silt, (10Yf plastic, dense, moist. | _ | 133-P3B-O37A-6.5-7.0 |
| -8- | | 0.0 | moist | FILL | | fine to medium silty SAND, some ash, trace metal, (10YR 3/2) very dark grayi | some cinders sh brown, non | _ |
| 9- | 2 | | | | | \plastic, dense, moist. fine to medium SAND, some silt, (10Yf brown, non plastic, dense, moist to wel | | 133-P3B-O37A-8.5-9.0 |
| -10 - -11 - -12 | 2 | 0.0 | moist | FILL | | fine to coarse gravelly SAND, trace coa (10YR 5/2) grayish brown, non plastic l odor, no staining. | oose, moist, no | 133-P3B-O37A-10.5-11 |
| -13- | 2 | 0.0 | moist | FILL | | fine to medium silty SAND, some fine t (10YR 5/2) grayish brown, non plastic l odor, no staining. | o coarse gravel, oose, moist, no | 133-P3B-O37A-12.5-13 |
| | | 0.0 | moist | FILL | | fine to medium silty SAND, trace fine to trace roots, (10YR 2/2) very dark brown | n, non plastic, | |
| -14 - -15 - | 2 | 0.0 | slightly moist | FILL | | loose, moist, no odor, no staining. fine to medium silty SAND, trace fine to (10YR 3/2) very dark grayish brown, no slightly moist. | o medium gravel, on plastic, loose, | 133-P3B-O37A-14.5-15 |
| -16 - -17 | 2 | 0.0 | | FILL | | fine to medium SAND, trace silt, fine to (10YR 4/2) dark grayish brown. | medium gravel, | 133-P3B-O37A-16.5-17 |
| -18 | | | | | | | | |
| + | 2 | 0.0 2.1 | slightly moist | FILL PT | | fine to medium SAND, trace silt, trace gravel, (5YR 5/2) reddish gray, non pla moist, no odor, no staining. | | 133-P3B-O37A-18.0-18 133-P3B-O37A-18.5-19 |
| 19 | - | | dry | | <u> </u> | PEAT (degraded vegetated material), 8 20% organic silt, (7.5YR 3/2) dark brow | vn, non plastic, | |
| -20 | | | | | | stiff, dry, strong organic odor. Soils cor | nsistent with MM. | |
| Commen | 1ts: 1) 3 atte | mpts we | ere made to | obtain best reco | overv 2) M | M/UND confirmed to be 1 ft thick. | | |



Boring ID: 133-P3B-O38A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 610773.0

 Date Started Drilling:
 12/18/2013 9:50:00 AM
 Rig Type:
 Geoprobe
 Coordinates (NJSPNAD83) y:
 682440.6

 Date Finished Drilling:
 12/18/2013 12:00:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 R. Kantor
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

| | | | | | | (Note | bgs = below ground surface) |
|-----------------|---------------------|--------------|---------------------|----------|---|---|-----------------------------|
| th ge gs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | PAAP | fine to coarse CONCRETE, fragments, (10YR 7/2) light | |
| _ | | 0.0 | moist | FILL | | gray. COPR, some fine to medium sand, some gravel, (5YR 3/2) dark reddish brown, non plastic, loose, moist. | |
| | 5 | 0.0 | moist to wet | FILL | | COPR, (2.5YR 4/4) reddish brown, low plasticity, soft, moist to wet. | |
| _ | | 0.0 | wet | FILL | | fine CINDERS, some ash, little wood, (10YR 2/1) black, non plastic, loose, wet, burnt odor. | |
| _ | | 12.5 | wet | FILL | | GGM, some fine cinders, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor. | |
| | 5 | 0.0 | moist to wet | FILL | | GGM, trace wood fragments, trace fine to medium sand, (2.5Y 4/2) dark grayish brown, low plasticity, medium dense, moist to wet, no odor, green staining. | |
| _ | | 0.0 | wet | FILL | | fine to coarse SAND, little silt, little brick, (10YR 2/2) very dark brown, non plastic, loose, wet, no odor, no staining. | 133-P3B-O38A-9.2-9.7 |
| _ | | 15.2 | wet | FILL | | fine to coarse SAND, some fine to medium gravel, (10YR 2/2) very dark brown, non plastic, medium dense, wet, slight petroleum odor, no staining. | |
| | 5 | 0.0 | moist | FILL | | fine silty SAND, trace roots, trace gravel, (10YR 3/3) dark | 133-P3B-O38A-11.2-11.7 |
| | Š | | | | | brown, non plastic, dense, moist, slight chemical odor, no staining. | 133-P3B-O38A-13.2-13.7 |
| _ | | 0.0 | wet | FILL | | fine to coarse SAND, some fine to coarse gravel, little fill material, (10YR 2/2) very dark brown, non plastic, medium dense, wet, no odor, no staining. | 133-P3B-O38A-15.2-15.7 |
| | | 0.0 | moist | FILL | | SILT, little clay, little fine sand, (10YR 4/2) dark grayish brown, high plasticity, soft, moist, no staining, slightly | 133-P3B-O38A-16.5-17.0 |
| | 5 | 0.0 | moist | PT | \(\frac{1}{1}\) \(\frac{1}\) \(\frac\ | burnt odor. PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM. | 133-P3B-O38A-17.0-17.5 |
| | | | | | / ₂ ₂ ₃ ₃ | | |



Boring ID: 133-P3B-O39A

| Project Number: 602 Oate Started Drilling: Date Finished Drilling: Date Finished Drilling: Date Finished Drilling: Depth Range Recovery (ft/ft) PIE (ppr ft bgs) PIE (ppr ft bgs) O.0. | O Oai | rfield Ave | | | Orilling Company: SGS North America | <u> </u> | |
|--|----------|-------------------------------|-----------------|--|--|--|-------------------------------|
| Date Finished Drilling Logged By: AB Physical Location: Stange ft bgs) Recovery (ft/ft) PII (ppr 1 - 2 0.0 0.0 -3 - 1.4 0.0 0.0 -4 - 2 0.0 0.0 -5 - 2 0.0 0.0 -7 - 0.7 0.0 0.0 -8 - 0.0 0.0 0.0 -9 - 1.2 0.0 0.0 -10 - 0.0 0.0 0.0 -11 - 1.5 0.0 0.0 -13 - 1.2 0.0 0.0 -15 - 2 0.0 0.0 -17 - 2 0.0 0.0 | | | | | Orilling Method: Geoprobe | Coordinates (NJSPN | IAD83) x: 610759.5 |
| Depth Range Recovery (ft/ft) PIL (ppr ft bgs) 0.0 | | | | | Rig Type: | Coordinates (NJSPI | NAD83) y: 682413.8 |
| Physical Location: September 1.2 | ing: 7 | 7/9/2013 1 | 12:30:00 PM | | Core Size: 3 in | Boring Total Depth: | 18 ft |
| Depth Range (ft/ft) (ppr (ft/ft)) (ppr (ft/f | | | | l | Project Manager: Chris Martell | Depth to Water: | |
| Range (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ppr (ppr (ppr (ppr (ppr (ppr (pp | Site | 133 - O39 | 9A | | | Elevation: 11.2 ft N | |
| Range (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ft/ft) (ppr (ppr (ppr (ppr (ppr (ppr (ppr (pp | | | | | | JON) | e bgs = below ground surface) |
| 2 0.0 -1 2 0.0 -3 1.4 0.0 -6 0.0 -7 0.7 -8 0.6 -7 0.7 -10 1.5 -11 1.5 -12 0.0 -13 1.2 -14 0.0 -15 2 -16 0.0 -17 2 -18 0.0 -17 0.0 | | Moisture Content | USCS | Graphic Log | Surface Cover and Thicki | | Sample ID |
| -1 - 2 | 0.0 | dry | FILL | | medium to coarse GRAVEL, crushed | concrete, (7.5YR | |
| 1.4 0.6 -3 1.4 0.6 -4 0.6 -5 2 -6 0.6 -7 0.7 -8 0.6 -10 0.6 -11 1.5 -12 0.6 -13 1.2 -14 0.6 -15 2 -16 0.6 -17 2 0.6 | 0.0 | dry | FILL | | 5/1) gray, non plastic, loose to hard, dr staining. COPR, little fine silty sand, (2.5YR 4/6) loose, dry to slightly moist, no odor, slightly | red, non plastic, | |
| 0.0 -4 0.0 -5 2 0.0 -7 0.7 0.7 0.0 -8 0.0 -9 1.2 0.0 -10 0.0 -11 1.5 0.0 -12 0.0 -13 1.2 0.0 -14 0.0 -15 2 0.0 -16 0.0 | 0.0 | dry | FILL | | COPR, little fine silty sand, (2.5YR 4/6) | | |
| 0.0 -4 0.0 -5 2 0.0 -7 0.7 0.7 0.0 -8 0.0 -9 1.2 0.0 -10 0.0 -11 1.5 0.0 -12 0.0 -13 1.2 0.0 -14 0.0 -15 2 0.0 -16 0.0 | | | | | loose, dry to slightly moist, no odor, slig | , , , , , , , , , , , , , , , , , , , | |
| -4 | | moist | FILL FILL | | ASH, some silt, trace wood, (9.5/2.5Y_ | | |
| 2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | U.U | slightly moist | NR | | plastic, loose to soft, moist, no odor, no fine silty SAND, some coal, wood fragn | | |
| 2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | 0 0 | slightly | FILL | | 2.5/1) black, non plastic loose, slightly | | |
| -6 - 0.0 | | moist | TILL | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ash, cinders, (5GY | |
| -7 | 0.0 | slightly | FILL | | 5/2) grayish green, non plastic, soft, sli | ghtly moist, no | |
| 1.2 0.0 -9 1.2 0.0 -10 0.0 -11 1.5 0.0 -12 0.0 -13 1.2 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | 0.0 | moist | FILL | | odor, green staining. gravelly SAND, little wood fragments, to | race GGM non | |
| 1.2 0.0 -9 1.2 0.0 -10 0.0 -11 1.5 0.0 -12 0.0 -13 1.2 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | | slightly | | $\times\!\!\times\!\!\times\!\!\times$ | plastic, loose, slightly moist, no odor, s | | |
| 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | moist | NR | | \staining. gravelly SAND, little wood fragments, v cinders, trace GGM, non plastic, loose, | vith ash, little | |
| 10 0.0 -10 0.0 -11 1.5 0.0 -12 0.0 -13 1.2 0.0 -14 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | 0.0 | moist | FILL | | \odor, no staining, slight green staining.\ NO RECOVERY | | 133-P3B-O39A-8.0-8.5 |
| 1.5 | 0.0 | slightly | FILL | | ASH, little sand, (N 4/) dark gray, non p | olastic, loose, | |
| 1.5 | L | moist | NR | | \moist, no odor, no staining. SILT, trace wood fragments, trace ash, | (7.5VR 2.5/2) | |
| 1.5 | | | | | very dark brown, non plastic, loose, slig | | 400 DOD 0004 40 0 40 5 |
| 1.2 0.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | 0.0 | slightly moist | FILL | | \\odor, no staining.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | , trace glass, | 133-P3B-O39A-10.0-10.5 |
| 1.2 0.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | - | | NR | $\times\!\!\times\!\!\times\!\!\times$ | (7.5YR 2.5/2) very dark brown, non pla | stic, loose, slightly / | |
| 1.2 -13 -14 -15 -15 -16 -16 -17 -2 0.0 | 0.0 | slightly | FILL | XXXXX | \moist, no odor, no staining. | | 133-P3B-O39A-12.0-12.5 |
| -14 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | 0.0 | moist | FILL | | LEAN CLAY, trace sand, trace coal, (7 brown, low plasticity, soft, slightly mois | | 130-1 30-039A-12.0-12.0 |
| 2 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | | | NR | **** | staining. NO RECOVERY | | |
| 2 0.0 -15 2 0.0 -16 0.0 -17 2 0.0 | 0.0 | slightly | FILL | XXXX | SILT, with sand, (7.5YR 3/2) dark brow | n low plasticity | 133-P3B-O39A-14.0-14.5 |
| 16 0.0 -17 2 0.0 | | moist | TILL | | soft, slightly moist, no odor, no staining | | 100 1 00 00071 1 110 1 110 |
| 2 0.0 | 0.0 | slightly | FILL | | SILT, with clay, (7.5YR 2.5/2) very dark | | |
| 2 0.0 | 0.0 | moist | FILL | | plasticity, soft, slightly moist, slight organization | anic odor. | 100 DOD COOK 40 0 40 T |
| | | | | | | | |
| 18 | ט.ט - | slightly | OL | | SILT, 80% Inorganic silt, 20% organic f | ibers, (7.5YR 4/2) | 133-P3B-O39A-16.7-17.2 |
| 18 | | moist | | | brown, low plasticity, soft, slightly mois odor, no staining. Soils consistent with | t, slight organic | 133-P3B-O39A-16.7-17.2 |
| | 0.0 | slightly moist slightly | FILL OL | | SILT, with clay, (7.5YR 2.5/2) very dark plasticity soft, slightly moist, slight orga SILT, 80% Inorganic silt, 20% organic brown, low plasticity, soft, slightly mois | t brown, low inic odor. fibers, (7.5YR 4/2) t, slight organic | |
| 3 attempts | ots were | e made to o | btain best reco | very 2) M | M/UND confirmed to be 1 ft thick. | | |

Project Number: 60240739

Project Name: PPG Garfield Ave

Date Started Drilling: 12/17/2013 10:45:00 AM

Boring ID: 133-P3B-O40A

Page: 1

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Drilling Company: SGS North America Coordinates (NJSPNAD83) x: 610746.0 Coordinates (NJSPNAD83) y: 682387.0

Date Finished Drilling: 12/17/2013 1:30:00 PM Core Size: 3 in Boring Total Depth: 15 ft

Rig Type:

Drilling Method: Geoprobe

| Logged | I By: A. E | ogucki | | | | oject Manager: Depth to Water: | | |
|----------------------------|---------------------|--------------|---------------------|----------|--|---|--------------------|------------------------|
| Physica | al Locatio | n: Site | 133 - O40 |)A | | + | Surface Elevation: | 11.3 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ess: | Sample ID |
| | | 0.0 | | CONCRETE | | CONCRETE, (10YR 6/1) gray. | | |
| 1 | 5 | 0.0 | dry to moist | FILL | | COPR, some fine to medium sand, little c dark reddish gray, non plastic, dense, dry no staining, little GGM. | | |
| 3 | | 1.0 | moist to wet | FILL | | fine silty SAND, some cinders, some grav dark grayish brown, non plastic, dense, m odor, no staining, trace GGM, trace glass, | oist to wet, no | |
| 5 | | 0.0 | moist | FILL | | GGM, some cinders, trace paper, (5Y 4/2 plastic, dense, moist, no odor, no staining | • | |
| | | 0.0 | moist | FILL | | GGM, some cinders, (5Y 4/2) olive gray, r moist, no odor, no staining. | | 133-P3B-O40A-5.5-6.0 |
| -6- | | 0.0 | wet | FILL | | BRICK, some silty fine to medium sand, (since the same silty fine to medium sand, (since the same same same same same same same sam | | 133-P3B-O40A-6.0-6.5 |
| 7 | 5 | 0.0 | wet | FILL | | CINDERS, some ash, little metal, (10YR 2 brown, non plastic, dense, wet, no odor, n | | 133-135-040/4-0.0-0.3 |
| 8 9 | | 0.0 | slightly | FILL | | fine to medium silty SAND, some cinders, | trace ceramics | 133-P3B-O40A-8.0-8.5 |
| | | | moist | 1122 | | (10YR 3/4) dark yellowish brown, non plas dense, slightly moist. | stic, medium | |
| 10 11 | | 0.0 | wet | FILL | | fine to coarse silty SAND, some fine cinde subangular, (10YR 2/2) very dark brown, medium dense, wet, no odor, no staining. | | 133-P3B-O40A-10.0-10.5 |
| 12 13 | 5 | | | | | | | 133-P3B-O40A-12.0-12.5 |
| | | 0.0 | moist | FILL | | SILT, little cinders, little fill material, (10YF brown, low plasticity, medium dense, mois staining. | | 133-P3B-O40A-13.5-14.0 |
| 14 | | 8.9 | moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 50% organic silt, (10YR 3/2) very dark gra | ayish brown, high | 133-P3B-O40A-14.0-14.5 |
| Notes: | | | | | | | | |

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

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 3/28/22 18:44



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3B-O41A

| | t Name: F | | | | | Orilling Company: SGS North America | | |
|-----------------------------|---------------------|--------------|---------------------|--------------------|----------------|--|----------------------|--|
| | t Number: | | | | | Drilling Method: Geoprobe Coordinates (NJSPNAD8 | | |
| | | | | 0:40:00 AM | | Rig Type: Coordinates (NJSP | | |
| | | | 5/16/2013 | 11:45:00 A | | Core Size: 3 in | Boring Total Depth: | 14 ft |
| | d By: EW | | | | | Project Manager: Chris Martell | Depth to Water: NA | |
| Physic | al Location | ı: Site | e 133 - O41 | Α | | | Elevation: 11.4 ft N | |
| | | | | | | | (Note | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| _ | 2 | 0.0 | dry | FILL | | fine to medium SAND, with fine to coar silt, (7.5YR 4/2) brown, non plastic, loos | | |
| -1 | | 0.0 | dry | FILL | | no odor, no staining. fine to medium SAND, and COPR, trac | e fine gravel | |
| _ | 1 [| 0.0 | moist | FILL | | (5YR 3/2) dark reddish brown, non plas | stic, loose, dry to | |
| -2- | | 0.0 | moist | FILL | | moist, no odor, no staining. | · · //⊟ | |
| | - I | 0.0 | moist | FILL | XXXX | medium to coarse SAND, trace ash, (7. | | |
| -3 | 2 | 0.0 | dry | FILL FILL | - | non plastic, very loose, moist, no odor, | | |
| _ | | 0.0 | moist | i-ILL | | fine to medium silty SAND, with COPR reddish brown, non plastic, soft, moist, | no staining. | |
| -4- - | | 0.0 | wet | FILL | | fine to medium silty SAND, with COPR reddish brown, non plastic, soft, moist, | | |
| - | | 0.0 | wet | FILL | ***** | fine to medium SAND, with fine to med | ium gravel little | |
| -5 | 2 | | | | **** | silt, (7.5YR 4/6) strong brown, non plas | | 400 DOD 0444 T.C.T |
| | | 0.0 | wet | FILL | | moist, no odor, no staining. fine to medium SAND, with fine to med | | 133-P3B-O41A-5.0-5. |
| -6 | | 0.0 | wet | FILL | | silt, (7.5YR 3/2) dark brown, non plastic moist, no odor, no staining. | | |
| - -7 | 1.5 | 0.0 | wet | FILL | | medium to coarse SAND, little fine to m | nedium gravel and | 133-P3B-O41A-6.5-7. |
| | | 0.0 | | NR | XXXX | fill material, (10YR 4/2) dark grayish brolloose, wet, no odor, no staining. | . 1111 | |
| -8- | | 0.0 | wet | FILL | | fine to medium SAND, with fine to coard (5YR 4/3) reddish brown, non plastic, lo | | |
| _ | 1.1 | 0.0 | wet | FILL | | no staining. | | 133-P3B-O41A-8.5-9. |
| _9 <u></u> | 1.1 | | | NR | TXXXX | medium to coarse SAND, with fine to m trace silt, (7.5YR 3/2) dark brown, wet, | | |
| | | | | | | staining. | | |
| 10 | | 0.0 | wet | FILL | _ | medium to coarse SAND, with fine to m | | |
| . – | 1.6 | 0.0 | wet | FILL | | trace silt, (7.5YR 3/2) dark brown, wet, | no odor, no | 133-P3B-O41A-10.5-1 |
| 11 | 1.0 | 0.0 | wet wet | FILL FILL | - | fine to medium SAND, and silt, with fine | | |
| - | | 0.0 | WEL | | <u> </u> | gravel, (7.5YR 3/1) very dark gray, non | | |
| -12 | | 0.0 |) vot | NR FILL | | wet, no odor, no staining. | - | |
| _ | | 0.0 | wet moist | FILL | - | NO RECOVERY | to modium graval | 122 D2D C44A 40 5 40 |
| - 13 | 2 | 1.3 | moist | PT | <u> </u> | medium to coarse silty SAND, with fine and wood fragments, (7.5YR 3/1) very | dark gray, non | 133-P3B-O41A-12.5-13 133-P3B-O41A-13.0-13 |
| _ | | | 1110131 | | 1, 11, | plastic, loose, wet, no odor, no staining fine to medium silty SAND, with fill mate | erial and fine to | |
| -14 | | | | | 1 | medium gravel, (7.5YR 3/1) very dark g | | |
| | | | | | | soft to loose, wet to saturated, no odor, wood fragments. | | |
| | | | | | 1 | NO RECOVERY | E) (D 0 5 (2) | |
| | | | | | | SILT, with fine sand and fill material, (7 dark brown, non plastic, soft to loose, w staining. | | |
| | | | | | | ASH, with fine sand and fine gravel, (7. non plastic, loose, wet, no odor, no stai | | |
| | | | | | | SILT, with fine sand and fill material, (7 dark brown, non plastic, soft to loose, w | .5YR 2.5/3) very | |
| | | | | | | staining. fine GRAVEL, with fine sand and silt, (7 | | |
| | | | | | | gray, non plastic, loose, wet, no odor, n | | |
| | | | | | | fine to medium GRAVEL, with fine sand | | |
| | | | | | | 3/1) very dark gray, non plastic, loose, staining. | | |
| | | | | | | SILT, with roots and fill material, (7.5YF non plastic, soft, moist, no odor, no sta | | |
| | | | | | | PEAT (degraded vegetated material), w | vith 80% organic | |
| | | | | | | fibers and 20% organic silt, (7.5YR 4/2) plastic, stiff, moist, slight organic odor, |) brown, non | |
| | | | | | | consistent with MM. | | |
| | | | | | | | | |
| omme | nte: 1\ 2 atta | mnte we | re made to a | htain host roo | OVERY 2) N | M/UND confirmed to be 1 ft thick. | | |
| Jiiiiiel | ing. 1) o alle | iipia we | made to 0 | D. COLL 1 COL 1 CO | UVUI y Z) IV | IT OF THE COMMITTION TO DO I IT UNION. | | |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3B-O44A

732.564.3200 office telephone

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610692.2

 Date Started Drilling:
 4/10/2014 8:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682280.6

 Date Finished Drilling:
 4/10/2014 9:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

| | By: ES Location | n: P3F | B - O44A | | P | Project Manager: Chris Martell | A IAVD88 | |
|---------------------------|---------------------|--------------|------------------------|------------------|----------------|---|--|-------------------------------|
| | | | | | | | (Not | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ess: | Sample ID |
| _1_ | l | 0.0 | moist | CONCRETE FILL | | CONCRETE fine to medium SAND, little crushed conci (5YR 6/3) light reddish brown, medium de | | |
| | 3.7 | 0.0 | moist to wet | FILL | | odor, no staining. medium to coarse SAND, little cinders, tra ash, (7.5YR 2.5/1) black, medium dense, odor, no staining. | | |
| -4 | | | | NR | | NO RECOVERY | | |
| -5 -6 - | | 1.0 | wet to saturated | FILL | | fine to medium silty SAND, (7.5YR 7/1) lig dense to loose, wet to saturated, slight so staining. | ght gray, medium Ivent odor, no | |
| -7— -8— | 5 | 0.0 | wet | FILL | | fine to coarse silty SAND, some fine to me (10YR 5/2) grayish brown, medium dense staining. | edium gravel, e, wet, no odor, no | |
| -9- - | | 0.0 | moist | FILL | | fine to medium silty SAND, (5R 6/6) light dense, moist, no odor, no staining. | red, medium | |
| -10 -11 | | 0.0 | wet | FILL | | fine silty SAND, with ash, fine to medium gray, medium dense, wet, no odor, no sta | | 133-P3B-O44A-11.0-1 |
| -12 | 5 | | | | | | | |
| -13 | | | | | \bowtie | | | 133-P3B-O44A-12.7-13 |
| 14 | | 0.0 | moist | PT | 77 77 7 | PEAT (degraded vegetated material), 80% 20% organic silt, (7.5YR 2.5/2) very dark strong organic odor, no staining. Soils cor | brown, firm, moist, nsistent with MM. | 133-P3B-O44A-13.2-13 |
| 45 | | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% orga | anic fibers, low | |
| -15 — -16 — -17— | | 0.0 | moist | OL | | plasticity, medium stiff to soft, moist, mod no staining. Soils consistent with UNDorg UNDorg SILT, 90% organic fibers, 10% or plasticity, soft, moist, moderate organic or Soils consistent with UNDorg. | rganic silt, low | |
| 18- | 5 | | | | | | | |
| -19 - -20 | | | | | | | | |
| | | | | | | | | |
| omme | nte: 1\ 2 a#a | ımnte ur | are made to | ohtain heet ree | 20//27/ 2/ 1 | JND/MM confirmed to be 1 ft thick 3) No COPR or | GGM present in any inte | ngal of this boring |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/14/2014 11:45:00 AM

Boring ID: 133-P3B-O45A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610677.8 Rig Type: Coordinates (NJSPNAD83) y: 682293.1

Date Finished Drilling: 4/14/2014 12:45:00 PM Core Size: 2.0 in Boring Total Depth: 15 ft Depth to Water: NA Project Manager: Chris Martell Logged By: MI

Physical Location: P3B - O45A Elevation: 11.2 ft NAVD88

| sical Locatio | n : P3 | B - O45A | | | Elevation: 11.2 ft NAVD88 (Note bgs = below ground surface) | | | |
|------------------|---------------|---------------------|---------|----------------|---|----------------------|--|--|
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | |
| | 0.0 | | ASPHALT | | ASPHALT | | | |
| | 0.0 | dry to moist | FILL | | fine to medium SAND, some fine to medium gravel, little cinders, ash, trace brick fragments, coal, (10YR 3/1) very dark gray, dense, dry to moist, no odor, no staining. | 133-P3B-O45A-1.0-1. | | |
| _ | | | | | | 133-P3B-O45A-3.0-3. | | |
| | 0.0 | saturated | FILL | | fine silty SAND, little glass, trace fill material, (10YR 4/2) dark grayish brown, loose to dense, saturated, no odor, no staining. | 133-P3B-O45A-5.0-5. | | |
| 5 | 0.0 | wet | FILL | | fine to medium silty SAND, with cinders, ash, little medium gravel, trace brick fragments, (10YR 3/1) very dark gray, soft to medium dense, wet, no odor, no staining. | 133-P3B-O45A-7.0-7. | | |
|) | 0.0 | moist to wet | FILL | | fine to medium silty SAND, some wood debris, little cinders, ash, fine gravel, trace coal, medium dense, moist to wet, no odor, no staining. | 133-P3B-O45A-9.0-9. | | |
| | 0.0 | moist | FILL | | fine to medium silty SAND, some fibers, little medium gravel, | 133-P3B-O45A-11.3-11 | | |
| 5 | 0.0 | moist | OL | | (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | 133-P3B-O45A-11.8-12 | | |
| | | | | | | | | |

PPG - PPG_LOGS.GDT - 6/19/14 10:14

732.564.3200 office telephone

Boring ID: 133-P3B-P37A

30 Knightsbridge Road, Piscataway, NJ 08854

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 610813.3 Drilling Method: Geoprobe Date Started Drilling: 12/18/2013 12:55:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682453.9 Date Finished Drilling: 12/18/2013 2:22:00 PM Core Size: 3 in Boring Total Depth: 20 ft Logged By: R. Kantor Depth to Water: Project Manager: Physical Location: Site 133 - P37A Surface Elevation: 12.0 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙD (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE CONCRETE, (10YR 7/1) light gray, non plastic, dry, no odor, dry 225 dry FILL COPR, little fine sand, little gravel, (2.5YR 4/4) reddish to moist brown, non plastic, medium dense, dry to moist, moderate petroleum odor, no staining. 5 162 moist FILL fine to coarse CINDERS, some cinders, trace glass, (5YR 4/2) dark reddish gray, non plastic medium dense, moist to to wet wet, moderate petroleum odor, no staining. 126 FILL GGM, little cinders, (5GY 5/4) light olive green, non plastic, moist medium dense, moist to wet, moderate petroleum odor, iron to 68.2 **FILL** wet oxide staining. GGM, little wood fragments, little gravel, (5GY 4/2) dark moist greyish brown, non plastic, medium dense, moist to wet, to 0.0 FILL wet moderate petroleum odor. fine to coarse CINDERS, some GGM, trace glass, (5Y 3/2) wet dark olive gray, non plastic loose, wet. 5 133-P3B-P37A-9.6-10.1 0.0 **FILL** CINDERS, some ash, trace wood, (7.5YR 3/1) very dark wet gray, non plastic, loose, wet, no odor, no staining. CINDERS, some ash, little fill material, (10YR 3/1) very dark 43.5 FILL wet gray, non plastic, medium dense, wet, slight petroleum odor. 133-P3B-P37A-11.6-12.1 12 13 133-P3B-P37A-13.6-14.1 24.8 FILL fine silty SAND, little medium sand, trace fill material, (10YR moist 4/2) dark grayish brown, low plasticity, soft, moist to wet, to 133-P3B-P37A-15 5-16 0 wet slight petroleum odor. 16 133-P3B-P37A-16.0-16.5 133-P3B-P37A-16.5-17.0 37.6 moist PT PEAT (degraded vegetated material), 50% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, high 1/ 1/1/ 1 5 plasticity, soft, moist, moderate organic odor, no staining, <u>/// ///</u> 30% fine sand. Soils consistent with MM. 1, 11, 1 <u>\ \ / / \ / / / </u> 19 1/ 1/1/ V 11, 11, bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue

2012-09 RA PPG LOGS

A.GDT - 3/28/22

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

GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste



Boring ID: 133-P3B-P38A

| Project | t Name: | PPG G | arfield Ave | | | Drilling Company: SGS North America | | Page: |
|-----------------------------|----------------|--------------|---------------------|----------------|---------------|--|---------------------------------|-------------------------------|
| Project | t Number: | 60240 | 0739 | | | | Coordinates (NJSP | NAD83) x: 610799.8 |
| Date S | tarted Drill | ling: 7 | 7/9/2013 11 | :00:00 AM | | Rig Type: | Coordinates (NJSPN | NAD83) y: 682427.1 |
| Date Fi | inished Dr | illing: | 7/9/2013 2 | 2:10:00 PM | | Core Size: 3 in | Boring Total Depth: | 20 ft |
| Logge | d By: AB | | | | | Project Manager: Chris Martell | Depth to Water: NA | · |
| Physic | al Locatio | n: Site | e 133 - P38 | 3A | | | Elevation: 11.5 ft N | |
| | | | | | |] | (Not | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickne | ess: | Sample ID |
| | | 0.0 | dry | FILL | XXXX | coarse GRAVEL, some fine to medium s | and (10VP 4/1) | |
| | _ | 0.0 | dry | FILL | - XXXX | dark gray, non plastic, loose, dry, no odo | | |
| -1 | 2 | 0.0 | dry | FILL | | fine to medium SAND, little COPR, trace | | |
| · _ | 1 | 0.0 | | | | medium gravel, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining. | non plastic, | |
| -2 | | 0.0 | dry | FILL | | COPR, (2.5YR 4/4) reddish brown, non p | olastic, loose, | |
| | 1 , - | | • | | | dry, no odor, no staining. COPR, (2.5YR 2.5/3) dark reddish brown | non plastic | |
| -3- - | 1.7 | 0.0 | dry | FILL | | loose, dry, no odor, no staining. silty SAND, with ash, little cinders, (7.5YI | . / | |
| -4- - | | | | NR | | brown, non plastic, loose, dry, no odor, n | | |
| - | 1.5 | 0.0 | dry | FILL | | NO RECOVERY GGM, (5YR 5/2) reddish gray, non plastic odor, no staining. | c, soft, dry, no | |
| _6 | | | | | \boxtimes | | | |
| -6- - | 1 | 0.0 | dry | FILL | | GGM, little COPR, trace cinders, (5Y 5/2 plastic, soft, dry, no odor, no staining. |) olive gray, non | |
| -7 <i></i> - | ' | | | NR | - KXXXX | NO RECOVERY | | |
| -8 - | - | 0.0 | slightly moist | FILL | | ASH, trace coal, cinders, (10YR 3/1) very plastic, loose, slightly moist, no odor, no | | |
| -9 - | 1.7 | 0.0 | dry | FILL | | SILT, some sand, (7.5YR 4/2) brown, lov dry, no odor, no staining. | | |
| -10 | | | | NR | | NO RECOVERY | | |
| 10 | | 0.0 | } | FILL | ***** | ASH, little cinders, trace coal, (10YR 4/1) |) dark gray. | |
| | 1.8 | | | | \bowtie | | , , , | 133-P3B-P38A-10.5-11 |
| –11 – – | 10 | 0.0 | dry | FILL | | SILT, some fine to medium sand, (7.5YR brown, low plasticity, soft, dry, no odor, n | | |
| - 12 | | 0.0 | slightly | NR | | NO RECOVERY | | |
| _ _13 | 2 | 0.0 | moist | FILL | | sandy SILT, trace cinders, trace coal, tra wood fragments, fine gravel, (7.5YR 2.5/5 brown, low plasticity, soft, slightly moist, staining. | 3) very dark | 133-P3B-P38A-12.5-13 |
| –14 – – | | 0.0 | slightly moist | FILL | | silty SAND, trace roots, (7.5YR 4/2) brow loose, slightly moist, no odor, no staining | vn, non plastic, | 133-P3B-P38A-14.5-15 |
| - 15 | 1 | | | NR | - KXXXX | NO RECOVERY | | |
| _16 | 1 | 0.0 | moist | FILL | | ELASTIC SILT, trace fine sand, trace roo | nts (10YR 2/1) | |
| _ _17 | 2 | 3.0 | moiot | | | black, high plasticity, soft, moist, slight be | | 133-P3B-P38A-16.5-17 |
| - 18 | | 0.0 | moist | FILL | | ELASTIC SILT, trace fine sand, trace roo | | 133-P3B-P38A-18.0-18 |
| 19 20 | 2 | 0.4 | moist | MH | | black, high plasticity, soft, moist, slight be ELASTIC SILT, 20% organic fibers, (10Y grayish brown, high plasticity, soft, moist consistent with UNDno. | urnt odor. 'R 3/2) very dark | 133-P3B-P38A-18.5-19 |
| | | | | | | | | |
| omme | nts: 1) 3 atte | mpts we | ere made to o | btain best rec | overy 2) N | IM/UND confirmed to be 1 ft thick. | | |



Boring ID: 133-P3B-P39A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 610786.3 |
| Date Started Drilling: 12/18/2013 8:30:00 AM | Rig Type: Geoprobe | Coordinates (NJSPNAD83) y: 682400.3 |
| Date Finished Drilling: 12/18/2013 9:50:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: R. Kantor | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Site 133 - P39A | | Elevation: 11.6 ft NAVD88 |

| | | i. 310 | e 133 - P39 | <u> </u> | | Elevation: 11.6 ft NAVD88 (Note bgs = below ground surface) | | | | | | |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|--|--|--|--|--|--|
| | | | | | | 100 | c bys – below ground surface; | | | | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | | | |
| | | 0.0 | moist | FILL | | fine to medium SAND, some gravel, (10YR 2/1) black, | | | | | | |
| -1- -2- | 5 | 0.0 | moist | FILL | | non plastic, loose, moist, no odor, no staining. COPR, some silty fine sand, little rock fragments, (2.5YR 4/2) weak red, non plastic, medium dense, moist, no odor, no staining. | | | | | | |
| -3- -4- 4- | | 0.0 | | FILL | | GGM, (5Y 4/2) olive gray. | | | | | | |
| -5 -6 | | 0.0 | moist to wet | FILL | | GGM, some gravel, trace glass, (10Y 4/2) dark grayish olive, non plastic, medium dense, moist to wet, no odor, no staining. | | | | | | |
| -7- -8- | 5 | 0.0 | moist | FILL | | fine to coarse CINDERS, little glass, little ash, (10YR 4/1) dark gray, non plastic, dense, wet, no odor, no staining, trace wire, trace ceramic. | 133-P3B-P39A-6.5-7.0 | | | | | |
| _9_ | | | | | | | 133-P3B-P39A-8.5-9.0 | | | | | |
| -10 | | 0.0 | moist to wet | FILL | | fine silty SAND, little glass fragments, little gravel, (10YR 4/2) dark grayish brown, non plastic, medium dense, moist to wet, no odor, no staining. | | | | | | |
| -11 | | 0.0 | wet | FILL | | SILT, little cinders, little glass, (10YR 4/2) dark grayish brown, low plasticity, medium dense, wet, no odor, no staining, trace metals. | 133-P3B-P39A-10.5-11.0 | | | | | |
| -12 - 13 | 5 | 0.0 | moist | FILL | | SILT, little ash, (10YR 3/3) dark brown, low plasticity, soft, moist, no odor, no staining, slight burnt odor. | 133-P3B-P39A-12.5-13.0 133-P3B-P39A-13.0-13.5 | | | | | |
| -14 -15 | | 7.3 | moist | PT | | PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, medium stiff, moist, moderate sulfur odor, no staining. Soils consistent with MM. | 133-P3B-P39A-13.5-14.0 | | | | | |
| -16 -17 | | | | | <u> </u> | | | | | | | |
| 18- | | | | | <u> </u> | | | | | | | |
| 19 | | | | | 71/71/ | | | | | | | |
| 20 | | | | | 1, 11, 1 | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | //UND confirmed to be 1 ft thick. | | | | | | |



Boring ID: 133-P3B-P40A

| - | Name: F | | | | | Orilling Company: SGS North America | | | | |
|--------------------------|---------------------|--------------|---------------------|----------------------|----------------|---|--------------------------|-------------------------------------|--|--|
| | Number: | | | | | Orilling Method: Direct Push | | Coordinates (NJSPNAD83) x: 610772.8 | | |
| | | | | 8:00:00 AM | | Rig Type: Geoprobe | | NAD83) y: 682373.5 | | |
| Date Fir | nished Dr | illing: | 12/17/201 | 13 10:45:00 <i>A</i> | | Core Size: 3.0 in | Boring Total Depth: | | | |
| ogged | I By: R. F | Cantor | | | | Project Manager: Scott Mikaelian | Depth to Water: NA | 4 | | |
| | | | e 133 - P4 | 0A | | | Elevation: 11.7 ft N | | | |
| | | | | | | | (No | te bgs = below ground surface) | | |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | ckness: | Sample ID | | |
| | | 0.0 | moist | FILL | | fine to coarse GRAVEL, subangular, | | | | |
| -1- | | 3.7 | moist | ASPHALT | | sand, (10YR 4/2) dark grayish brown, moist. | , non plastic, loose, | - | | |
| | | 0.0 | moist | FILL | | ASPHALT, (10YR 2/1) black, non pla | stic loose, moist. | | | |
| -2- | | 0.0 | moist | FILL | \bowtie | COPR, (5YR 4/4) reddish brown, non | plastic, medium | | | |
| _ | 5 | 70.0 | moist | FILL | \bowtie | \dense, moist, no odor, no staining. fine to medium silty SAND, little COP | PD little gravel | | | |
| 7 | | 521 | | F | \bowtie | (2.5YR 4/2) weak red, non plastic, loc | | _ | | |
| -3- | | 321 | moist | FILL | \bowtie | \no staining, little salt precipitate. | | | | |
| - | | | moist | FILL | | fine silty SAND, some tar, some paper | | | | |
| -4 | | | | | \bowtie | \red, non plastic, dense, moist, moder | ate petroleum odor, | | | |
| \Box | | | | | \bowtie | \no staining. | , (5VD 4/2) dor!: | | | |
| _5- | | | | | | fine silty SAND, some rock fragments reddish gray, non plastic, dense, moi | | | | |
| -5- | | 3.7 | wet | FILL | | petroleum odor, sheen. | si, moderate | 133-P3B-P40A-5.0-5.5 | | |
| \dashv | | | | | | GGM, trace brick, trace metal, (5Y 4/ | 2) olive grav. non | | | |
| -6- | | | | | | plastic, medium dense, moist, no odo | | | | |
| 4 | | | | | \bowtie | CINDERS, little gravel, little ash, (10) | YR 2/2) very dark | 133-P3B-P40A-6.5-7.0 | | |
| -7- | | | | | \bowtie | brown, non plastic, medium dense, w | | 133-F3B-F40A-0.3-7.0 | | |
| · _ | 5 | | | | | odor, little wood, trace metal, trace ce | eramic. | | | |
| | | | | | \bowtie | | | | | |
| -8- | | | | | \bowtie | | | | | |
| \dashv | | 0.4 | wet | FILL | | fine silty SAND, little clay, trace cerar | mics (10VR 4/2) | 133-P3B-P40A-8.5-9.0 | | |
| -9 | | 01 | Wet | I ILL | \bowtie | dark grayish brown, low plasticity, so | | | | |
| _ | | | | | \bowtie | staining. | it, wet, no odor, no | | | |
| 10 | | | | | \bowtie | g- | | | | |
| -10 | | 0.0 | moist | FILL | | fine to medium silty SAND, little grave | el, trace fill material, | | | |
| \dashv | | | to | | \bowtie | (5YR 4/2) dark reddish gray, non plas | | 133-P3B-P40A-10.5-11 | | |
| _11 | | | wet | | \bowtie | moist to wet, no staining, slight burnt | odor. | | | |
| - | | | | | \bowtie | | | | | |
| -12 | | | | | \bowtie | | | | | |
| | 5 | | | | \bowtie | | | | | |
| 40 | | | | | \bowtie | | | 133-P3B-P40A-12.5-13 | | |
| -13 | | | | | \bowtie | | | | | |
| \dashv | | | | | \bowtie | | | 133-P3B-P40A-13.5-14 | | |
| -14 | | | | DT | <u> </u> | 000/ | -!!t (40)(D 4(4) -!!- | 133-P3B-P40A-14.0-14 | | |
| 4 | | | moist | PT | | 90% organic fiber, little 10% organic syellowish brown, low plasticity, soft, n | SIII, (10YR 4/4) dark | 100 1 05 1 40 (14.0 14. | | |
| 15 | | | | | V 71 V | odor, no staining. Soils consistent wit | | | | |
| -15 | | | | | | odor, no staining. John consistent wit | III IVIIVI. | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



Boring ID: 133-P3B-P41A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610759.3 Date Started Drilling: 5/16/2013 9:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682346.7 **Date Finished Drilling:** 5/16/2013 10:35:00 AM Core Size: 3 in Boring Total Depth: 15 ft Depth to Water: NA Logged By: EW Project Manager: Chris Martell Physical Location: Site 133 - P41A Elevation: 11.7 ft NAVD88 (Note bgs = below ground surface)

| | | | | | 1 | (N | 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 |
| | | 0.0 | moist | FILL | | fine to medium SAND, with wood fragments, little silt, | |
| 4 | 1.7 | 0.0 | | E | | (7.5YR 3/3) dark brown, non plastic, loose, moist, no odor, no staining. | $\overline{}$ |
| | ••• | 0.0 | moist | FILL FILL | - | COPR, trace fine sand, trace silt, (5YR 4/3) reddish | |
| | | 0.0 | moist | | **** | brown, non plastic, loose, moist, no odor, no staining, | |
| -2- | | 0.0 | moist | NR | - | \some brick fragments. | |
| | | 0.0 | IIIOISt | FILL | | fine to medium silty SAND, some COPR, (5YR 2.5/2) | |
| 3 | 1.8 | 0.0 | moist | FILL | | dark reddish brown, non plastic, soft to loose, moist, no lodor, no staining. | |
| | | | | | | NO RECOVERY | |
| 4 | | | | ND | <u> </u> | fine to medium SAND, with medium gravel, little silt. | \vdash |
| 4 | | 0.0 | moist | NR FILL | - | (7.5YR 3/2) dark brown, non plastic, soft to medium, | \Box |
| _ | 4.0 | | | FILL | | \dense, moist. | |
| −5 −− | 1.6 | | | | | medium SAND, with silt and fill material, (7.5YR 2.5/2) | 133-P3B-P41A-5.0-5.5 |
| - – | | 0.0 | wet | FILL | | very dark brown, non plastic, soft, moist, no odor, no | 133-1 3B-1 41A-3.0-3.3 |
| 6 | | | wet | NR | | staining. | |
| U | | 1.1 | wet | FILL | -₩ | NO RECOVERY | |
| | 1 | 0.6 | moist | FILL | \longrightarrow | medium SAND, with brick, little fine to medium gravel, (7.5YR 5/1) gray, non plastic, loose, moist to wet, no | 133-P3B-P41A-6.5-7.0 |
| −7 <i>−</i> − | 1 | 0.0 | IIIOISt | NR | _XXXXX | odor, no staining, some glass, ceramics and fill material. | |
| | | | | INIX | | fine to medium SAND, little fine gravel, little silt, (7.5YR | ¹ |
| _8 | | | | | | 2.5/1) black, non plastic, loose, wet, no odor, no staining. | |
| | | 0.8 | wet | FILL | \bowtie | NO RECOVERY | |
| | 1 | | | | | fine to medium GRAVEL, with fine to medium sand, little | 133-P3B-P41A-8.5-9.0 |
| <u> </u> | ' | | | NR | 1 | ash, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, | |
| | | | | | | no staining. | ' |
| 10 | | 0.0 | | | | ASH, with fine to medium sand, and fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor. | \vdash |
| | | 0.0 | wet | FILL | | NO RECOVERY | ' |
| 44 | 1.8 | | | | | fine to medium sandy SILT, with fine to medium, gravel | 133-P3B-P41A-10.5-11.0 |
| -11 | | | | | | \\and ash, (7.5YR 3/1) very dark gray, non plastic, soft, | |
| | | 0.0 | moist | FILL | | wet, no odor, no staining. | |
| 12 | | 0.0 | wet | NR | | NO RECOVERY | |
| _ | | 0.0 | wet | FILL | | fine to medium SAND, with fine gravel and silt, (7.5YR | 400 DOD D444 40 5 40 0 |
| 13 | 2 | | | | | \\\\\2.5/1) black, non plastic, loose, wet, no odor, no staining. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 133-P3B-P41A-12.5-13.0 |
| 10 | | | | | | non plastic, loose, moist, no odor, no staining. | 133-P3B-P41A-13.2-13.7 |
| – | | 0.3 | | 01 | <u> </u> | NO RECOVERY | 133-P3B-P41A-13.7-14.2 |
| 14 | | 1.5 | moist moist | OL PT | 11/1/ | fine to medium SAND, and silt, with ash, (7.5YR 3/1) | 133-P3B-P41A-13.7-14.2 |
| | 1 | 1.5 | IIIOISt | FI | 1, 11, 1 | very dark gray, non plastic, soft to loose, wet, no odor, no | · |
| 15 | | | | | <u> </u> | staining, and fine to medium gravel. | _ |
| | | | | | | UNDorg SILT, some organics, (7.5YR 4/2) brown, non | ! |
| | | | | | | \plastic, soft, moist, slight organic odor, no staining. Soils \ \consistent with UNDorg. | |
| | | | | | | PEAT (degraded vegetated material), with 80% organic | |
| | | | | | | fibers and 20% organic silt, (7.5YR 2.5/3) very dark | |
| | | | | | | brown, non plastic, stiff, moist, slight organic odor, no | |
| | | | | | | staining. Soils consistent with MM. | |
| | | | | | | _ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | I | 1 | | 1 | | 1 |



PPG LOGS.GDT - 8/6/13 09:54

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

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3B-P42A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610744.8 Date Started Drilling: 5/16/2013 2:50:00 PM Coordinates (NJSPNAD83) y: 682326.9 Rig Type: Date Finished Drilling: 5/16/2013 9:31:00 AM Core Size: 3 in Boring Total Depth: 15 ft Depth to Water: NA Project Manager: Chris Martell Logged By: Elevation: 11.4 ft NAVD88 Physical Location: Site 133 - P42A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 moist FILL fine to medium SAND, with silt and roots, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining. 0.0 FILL 1.7 dry fine to medium SAND, with COPR, little roots, (5YR 3/4) FILL 0.0 moist dark reddish brown, non plastic, loose, dry to moist, no odor, no staining NR fine to medium SAND, with fine gravel, trace COPR, 0.0 moist FILL (7.5YR 2.5/1) black, non plastic, loose, moist, no odor, no staining. 2 0.0 moist **FILL** fine to medium silty SAND, trace COPR and fill material, (7.5YR 3/1) very dark gray, moist to wet, no odor, no 0.0 FILL moist staining, little coal. medium SAND, with silt, little wood fragments, (7.5YR 0.0 **FILL** moist 2 2.5/2) very dark brown, non plastic, soft, moist, no odor, 133-P3B-P42A-5.0-5.5 no staining, some roots. medium to coarse SAND, with wood fragments and silt, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no 0.0 **FILL** moist odor, no staining. 133-P3B-P42A-6.5-7.0 medium SAND, little silt and fine gravel, (7.5YR 4/6) 1.5 0.0 **FILL** strong brown, non plastic, soft to loose, moist to wet, no odor, no staining. NR medium SAND, with silt, little fine to medium gravel, 0.0 wet FILL (7.5YR 4/6) strong brown, non plastic, soft to loose, 0.0 moist FILL moist to wet, no odor, no staining 133-P3B-P42A-8.5-9.0 1.3 medium to coarse SAND, with fill material NO RECOVERY NR fine to medium SAND, with silt and brick, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no 0.0 moist **FILL** 0.0 moist FILL 133-P3B-P42A-10.5-11.0 fine to medium SAND, with fine gravel and fill material. 1.8 0.0 moist **FILL** (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining. NO RECOVERY NR 0.0 wet fine to medium SAND, with silt, (7.5YR 3/2) dark brown, FILL non plastic, soft, moist, no odor, no staining 133-P3B-P42A-12.7-13.2 2 -13 SAND, with ash and fine gravel, (7.5YR 4/1) dark gray, 0.0 non plastic, loose, moist to wet, no odor, no staining. 133-P3B-P42A-13.2-13.7 moist OL SILT, with fine gravel and brick, (10YR 4/2) dark grayish Ρī 1.3 moist 11/ 11/ brown, non plastic, soft, moist, no odor, no staining, little PT 1.3 moist ash 1/ 1/1/ 1 NO RECOVERY -15 medium to coarse SAND, some silt and fine gravel, (7.5YR 3/2) dark brown, non plastic, soft to loose, wet, no odor, no stáining. UNDorg SILT, with organics, (7.5YR 3/2) dark brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM



Boring ID: 133-P3B-Q37A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610840.1 Date Started Drilling: 5/20/2013 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682440.4 Date Finished Drilling: 5/20/2013 2:45:00 PM Core Size: 3 in Boring Total Depth: 18 ft

| _ogged By : EV | | | | F | | Depth to Water: NA | |
|---------------------------|-----------|---------------------|------------|------------------------------|--|-----------------------------------|---|
| Physical Location | n: Sit | e 133 - Q3 | 57A | | | Elevation: 12.5 ft N | |
| Depth Range ft bgs) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickne | | te bgs = below ground surface). Sample ID |
| | 0.0 | dry | CONCRETE | D 4 4 0 | CONCRETE, (10YR 7/2) light gray, non | plastic, very | |
| -1 2 | 1762 | slightly moist | FILL | | dense, dry. fine to medium silty SAND, some COPR cinders, (2.5YR 2.5/1) reddish black, nor slightly moist, strong petroleum odor. | | |
| -2 | 1566 | moist | FILL | | COPR, little fine silty sand, little cinders, reddish brown, non plastic, loose, moist, | (5YR 4/4) , strong | |
| -3 - 2 | 902 | moist | FILL | | petroleum odor. GGM, some COPR, little fill material, (2. reddish gray, non plastic, medium dense | 5YR 4/1) dark e, moist, strong | |
| _52 | 168 | moist | FILL | | petroleum odor. GGM, some COPR, little ash, (10Y 5/2) non plastic, medium dense, moist, mode odor. | grayish olive, erate petroleum | |
| -6- | 70.6 | moist | FILL | | GGM, some COPR, little ash, (5GY 5/2) | gravish green. | - |
| _72 | | | | | non plastic, loose, moist, slight petroleur | | |
| -8 9 2 | 108 | wet | FILL | | CINDERS, some ash, little GGM, (2.5Y brown, non plastic, loose, wet, moderate | | |
| -10 | 67.2 | wet | FILL | | fine to coarse CINDERS, some ash, son | ne fine to | - |
| 1.3 | | | NR | | medium sand, some wood chips, some oil-like material, (10YR 4/1) dark gray, nowet, strong solvent odor, sheen. | glass, some | 133-P3B-Q37A-10.8-1 |
| 12 | 04.0 | | | ~~~~ | NO RECOVERY | | |
| 1.5 | 21.8 | wet | FILL | | fine to medium CINDERS, some ash, litt fragments, (10YR 3/2) very dark grayish plastic, loose, wet, moderate solvent odd fine to medium silty SAND, little glass, lit | brown, non or, sheen. | 133-P3B-Q37A-12.8-13 |
| _14 | | | NR | | fragments, (10YR 3/2) very dark grayish | brown, non | |
| '] | 0.0 | wet | FILL | $\times\!\!\times\!\!\times$ | \\ \text{plastic, loose, wet, moderate petroleum of the NO RECOVERY} | ouor. | |
| 1.7 | | | | | fine SAND, little cinders, little silt, trace of (10YR 3/2) very dark grayish brown, non wet. | | 133-P3B-Q37A-14.8-1 |
| -16 | 0.0 | wet | NR FILL | XXXXX | NO RECOVERY fine to medium SAND, some ash, some | cinders little | |
| 17 2 | 0.0 | moist | FILL | | glass, (10YR 4/2) dark grayish brown, no | | 133-P3B-Q37A-16.5-1 |
| -17 | 2.3 | moist | PT | <u> </u> | \text{wet.} \fine SAND, little cinders, little roots, (7.5) | YR 4/3) brown, | 133-P3B-Q37A-17.0-1 |
| 18 | | | | | Non plastic, loose, moist. PEAT (degraded vegetated material), 80 20% organic silt, (10YR 3/3) dark brown, loose, moist, moderate sulfur odor. Soils MM. | , non plastic, / | |



PPG LOGS.GDT - 8/6/13 09:54

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

Boring ID: 133-P3B-Q38A

Road, Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Soft Dig/Geoprobe Coordinates (NJSPNAD83) x: 610826.6 Date Started Drilling: 5/14/2013 9:30:00 AM Coordinates (NJSPNAD83) y: 682413.6 Rig Type: Date Finished Drilling: 5/15/2013 9:40:00 AM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: NA Logged By: AB Project Manager: Chris Martell Elevation: 11.7 ft NAVD88 Physical Location: Site 133 - Q38A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 moist FILL GRAVEL, some fine to coarse sand, (7.5YR 3/2) dark brown, non plastic, loose, moist, moderate HC odor. 0.0 GRAVEL, some COPR some silt, little fine to medium FILL wet 3 sand, (5YR 4/4) reddish brown, non plastic, loose, wet. 0.0 FILL COPR, little gravel, (5YR 4/3) reddish brown, non plastic, wet 0.0 FILL wet GRAVEL, some glass fragments, (10YR 3/1) very dark gray, non plastic, loose, wet, mostly water; not many 2 0.0 FILL solids in auger. wet GRAVEL, little COPR little glass, little metal, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, slight 0.0 moist **FILL** HC odor, sheen. 1 FILL moist ASH, some cinders, (10YR 4/1) dark gray, non plastic, 0.0 loose, moist, slight burnt odor. 0.0 **FILL** moist fine CINDERS, some ash, little coal, (10YR 2/2) very dark brown, non plastic, loose, moist, slight burnt odor. 1.5 fine CINDERS, some ash, little fill material, (10YR 2/1) black, non plastic, loose, moist to wet, slight burnt odor. NR NO RECOVERY 0.0 fine to medium silty SAND, some ash, some fine cinders, moist **FILL** little wood, little roots, (10YR 3/2) very dark grayish 133-P3B-Q38A-8.5-9.0 1.8 brown, non plastic, loose, moist to wet, slight burnt odor. NR NO RECOVERY 0.0 moist FILL fine to medium silty SAND, some ash, some fine cinders, some gravel, (10YR 3/2) very dark grayish brown, non 133-P3B-Q38A-10.5-11.0 2 plastic, loose, moist to wet, slight burnt odor. fine silty SAND, little clay, little roots, little cinders, (10YR 0.0 **FILL** moist 4/3) brown, low plasticity, soft, moist, slight burnt odor. 133-P3B-Q38A-12.5-13.0 2 -13 133-P3B-Q38A-13.2-13.7 133-P3B-Q38A-13.7-14.2 1.9 clayey PEAT (degraded vegetated material), 75% moist organic fibers, 25% organic silt and clay, (10YR 4/2) dark РТ 2.3 moist grayish brown, medium plasticity, soft, moist, slight sulfur 1/ 1/1/ 1 2 odor. Soils consistent with MM. 11, 11, clayev PEAT (degraded vegetated material), 75% 1, 11, 1 organic fibers, 25% organic silt and clay, (10YR 4/2) dark -16 grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.



Boring ID: 133-P3B-Q39A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Soft Dig/Geoprobe Coordinates (NJSPNAD83) x: 610810.1

Date Started Drilling: 5/14/2013 10:20:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682389.8

Date Finished Drilling: 5/15/2013 10:50:00 AM Core Size: 3 in Boring Total Depth: 16 ft

Logged By: AB Project Manager: Chris Martell Depth to Water: NA

| Loaaed | d By: AB | | | | | Project Manager: Chris Martell Depth to W | /ater: NA | |
|---------------------------|---------------------|--------------|---------------------|--------------------|----------------|--|-------------------|-----------------------------|
| | | n: Site | e 133 - Q39 |)A | | | 11.8 ft NAVD88 | |
| , | | | | | _ | | (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 |
| | 2 | 0.0 | moist | FILL | | GRAVEL, some COPR, little fill material, (7.5YR 2.5 very dark brown, non plastic, loose, moist, slight bu | | |
| -1 | _ | 0.0 | wet | FILL | | odor. COPR, little cinders, little gravel, non plastic, loose, mostly water in auger. | wet, | |
| -2 - | 2 | 0.0 | wet | FILL | | GRAVEL, some COPR little fill material, (7.5YR 2.5 very dark brown, non plastic, loose, wet, mostly wat | /3) er in | |
| -3- - | | 0.0 | wet | FILL | | auger. ASH, some GGM, some cinders, (5Y 5/2) olive gray plastic, loose, wet, mostly water in auger. | , non | |
| -4- - - | | 0.0 | moist | FILL | | GGM, some ash, some cinders, little gravel, (2.5Y dark gray (5Y 6/3) pale olive, non plastic, loose, mo | I/1) ist to | |
| -5- - | 2 | 0.0 | moist | FILL | | wet. GGM, some COPR, some ash, little cinders, (5YR 4 dark reddish gray, non plastic, loose, moist. | 1/2) | |
| -6- - | | 0.0 | moist | FILL | | GGM, some cinders, some ash, (5Y 5/3) olive, non plastic, loose, moist to wet. | | |
| -7— — | 1.3 | 0.0 | wet | FILL NR | | fine to medium CINDERS, some ash, (10YR 4/1) da gray, non plastic, loose, wet. NO RECOVERY | 133-F | ² 3B-Q39A-6.8-7. |
| -8 | | 0.0 | wet | FILL | | fine to medium CINDERS, some ash, some gravel, (10YR 3/2) very dark grayish brown, non plastic, loc | | |
| -9— — | 1.3 | 0.0 | moist | FILL | | wet. wet. fine to medium silty SAND, some gravel, (10YR 5/3) | 133-F | ² 3B-Q39A-8.8-9 |
| -10 _ | | 0.0 | wet , | NR FILL FILL | | \brown, non plastic, medium dense, moist. \text{NO RECOVERY} \text{fine to medium SAND, little silt, (5YR 5/3) reddish b} | rown, / | |
| -11 | 1.6 | 0.0 | wet | FILL | | \non plastic, loose, wet. \text{fine to medium silty SAND, some cinders, little grav} \(\lambda(7.5YR 3/2)\) dark brown, non plastic, loose, wet. | el, 133-P3 | BB-Q39A-10.8-1 |
| -12 _ | | 0.0 | wet | NR FILL | | | k | |
| -13 | 2 | 0.0 | moist | FILL | <u> </u> | \NO RECOVERY fine to coarse CINDERS, some ash, (10YR 4/1) dar \text{gray, non plastic, loose, wet.} | / 10016 | 3B-Q39A-12.9-1 |
| -14 | | 1.7 | moist moist | PT PT | <u> </u> | fine silty SAND, little ash, little cinders, little roots, (| | 3B-Q39A-13.4-1 |
| _ -15 | 1.5 | | | | <u> </u> | plasticity, soft, moist, moderate sulfur odor. Soils | N | |
| -16 | | | | NR | | consistent with MM. PEAT (degraded vegetated material), 75% organic 25% organic silt and clay, (10YR 4/1) dark gray, hig plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM. | fibers, | |
| | | | | | | NO RECOVERY | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| om:==:: | ato: 1\ 2 a#= | moto ···- | ro mada ta =1 | htain bast :== | 201/07/2014 | W/UND confirmed to be 1 ft thick. | | |



Boring ID: 133-P3B-Q40A

Page: 1

| Project Date Sta | Number: arted Drill | 60240 ing: 5 | 5/14/2013 1 | :20:00 PM 12:20:00 Pf | | Drilling Company: SGS North America Drilling Method: Soft Dig/Geoprobe Rig Type: Core Size: 3 in | | NAD83) x: 610794.6 NAD83) y: 682370.0 |
|---------------------------|------------------------|-----------------|---------------------|--------------------------|----------------|---|--|--|
| | By: AB | | | | | Project Manager: Chris Martell | Depth to Water: NA | |
| | | n: Site | e 133 - Q40 |)A | | - reject managen erme manten | Elevation: 12.0 ft N | |
| 1 | | | | | | | | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| -1- | 2 | 0.0 | slightly moist | FILL | | COPR, some gravel, little fill material, dark grayish brown, non plastic, loose, moderate HC odor. | slightly moist, | |
| - -2- | | | slightly moist | FILL | | fine to medium silty SAND, some grav little fill material, (10YR 3/2) very dark plastic, loose, slightly moist, slight HC | grayish brown, non | |
| -3- | 1 | 0.0 | moist | FILL | | fine to medium silty SAND, some grav fill material, (7.5YR 3/3) dark brown, no | el, some ash, little on plastic, loose, | |
| -4 | 3 | 0.0 | wet | FILL | | moist to wet, moderate solvent odor, s GGM, some ash, some gravel, little Co material, (2.5Y 5/1) gray, non plastic, l | OPR, little fill | |
| -5 | | 0.0 | moist | FILL | | GGM, some COPR, some ash, some 4/2) olive gray, non plastic, loose, mois | st to wet. | |
| -6- -7 | 0.8 | 0.0 | moist moist | FILL FILL NR | | fine to coarse CINDERS, some ash, so (10YR 2/1) black, non plastic, dense, r fine to coarse CINDERS, some fine to little gravel, little fill material, (10YR 3/2) | noist. medium sand, | |
| -8- | | 0.0 | | | | \grayish brown, non plastic, medium de NO RECOVERY | ense, moist to wet. | |
| -9- | 1.2 | 0.0 | moist | FILL | | fine to medium silty SAND, little ash, li 3/2) very dark grayish brown, non plas wet. | | |
| - | | | | NR | | NO RECOVERY | | |
| -10 - -11 | 1.5 | 0.0 | moist | FILL | | fine to medium silty SAND, some ash, little brick, (10YR 4/2) dark grayish bro dense, moist to wet. | | 133-P3B-Q40A-10.0-10 |
| | | | | NR | | NO RECOVERY | | |
| -12 | | 0.0 | moist | FILL | | fine to coarse CINDERS, some ash, lit | tle wood | 133-P3B-Q40A-12.0-12 |
| | 2 | 2.9 | moist | PT | | PEAT (degraded vegetated material), | 80% organiuc | 133-P3B-Q40A-12.5-13 133-P3B-Q40A-13.0-13 |
| -14 - | 1.4 | 2.4 | moist | PT | 1/ 1// 1// | plastic, loose, moist, slight sulfur odor. | Soils consistent | |
| -15 - -16 | 1.4 | | | NR | <u> </u> | | igh plasticity, soft, | |
| | | | | | | | | |
| | | | | | | | | |
| | | mpts we | | | | | | |

Project Number: 60240739

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 11/20/2014 10:30:00 AM

Boring ID: 133-P3C-P46AR

Page: 1 Drilling Company: SGS Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610688.0 Coordinates (NJSPNAD83) y: 682200.6

Rig Type:

| | | illing: | 11/20/201 | 4 10:40:00 A | | Core Size: 3.0 in | Boring Total Depth | n: _5 ft |
|---------------------------|---------------------|--------------|---------------------|--------------|---------------|---|---|--|
| | By: SP | | | | | Project Manager: | Depth to Water: | |
| Physic | al Locatio | n: P30 | C - P46AR | | | 1 | Surface Elevation | : 10.8 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cove | r and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| | | | | | | | | |
| -1 | | 0.0 | dry | FILL | | fine to medium SAND, some dark gray, loose, dry, no odor | ash, trace gravel, (10YR 4/1) , no staining. | |
| -2 - | 5 | 0.0 | dry | FILL | | ASH, trace coal, trace gravel, very dark gray, loose, dry, no | trace ceramics, (10YR 3/1) odor, no staining. | |
| -3 | | | | | | | | 133-P3C-P46AR-3.0-3.5 |
| -4 | | 0.0 | dry | FILL | | fine to medium SAND, little a brown, medium dense, dry, n | sh, (10YR 4/2) dark grayish o odor, no staining. | |
| -5 | | 0.0 | dry | FILL | | ASH, trace debris, trace coal, dark gray, loose, dry, no odor | trace gravel, (10YR 3/1) very , no staining. | |
| MM - me | adow mat | | GGM - gree | n grey mud | | esidue UNDno - non-organic undistu UNDorg - organic undisturbed in any interval of this boring. | rbed native deposits MGP - ma d native deposits CCPW - c | nufactured gas plant hromate chemical production wa |

Boring ID: 133-P3C-P47A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610678.7 Date Started Drilling: 9/21/2015 12:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682183.4 **Date Finished Drilling:** 9/21/2015 12:40:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

| Logged By: RI | (| | | P | roject Manager: | Depth to Water: | |
|--|--------------|---------------------|---------------|----------------|--|---------------------------------------|--|
| Physical Locati | on: Site | e 133 - Hall | aday Street S | South | | Surface Elevation: | 10.8 ft NAVD88 |
| Depth Range (ft bgs) Recover (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness | ess: | Sample ID |
| | 0.0 | | ASPHALT | | ASPHALT. | | |
| | 0.0 | dry | FILL | | fine to medium sand,little fine to medium and ash, (7.5YR 3/4) dark brown, loose,di staining. | ry,no odor,no | 133-P3C-P47A-2.0-2.5 |
| | 0.0 | dry | FILL | | fine to medium sand, little fine gravel and a coal, concrete and debris, (7.5YR 3/1) very gray, loose, dry to slightly moist, no odor, no | dark | |
| -10 -11- -12- 5 -13- -14- | 0.0 | moist | FILL | | fine to medium sand,little fine to medium strace debris, (7.5YR 3/4) dark brown,loose staining. | gravel and ash, e,moist,no odor,no | 133-P3C-P47A-14.5-15.0 |
| 15 | 100 | | | \bowtie | | | 133-P3C-P47A-15.0-15.5 |
| | 0.0 | slightly moist | OL | | UNDorg SILT, (80% organic silt, 20% organic silt, 20% organic silt, 20% organic silt, slightly in staining. Soils consistent with UNDorg. | ariic libers), moist, no odor, no | 133-P3C-P47A-15.5-16.0 |
| Notes: bgs - below surfac MM - meadow ma' | | GGM - gree | en grey mud | | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos thick 3) No COPR or GGM present in any interval of this boring. | eposits MGP - mani sits CCPW - chi | ufactured gas plant omate chemical production was |

Boring ID: 133-P3C-P47AR

Page: 1

| Project Name | | | | | Drilling Company: SGS | | |
|---------------------------|------------|---|----------------|---------------|--|---|--|
| Project Numb | | | | | Drilling Method: Geoprobe | | PNAD83) x: 610678.7 |
| Date Started | | | | | Rig Type: | Coordinates (NJSP | NAD83) y: 682183.4 |
| Date Finished | Drilling: | 11/20/201 | 14 11:20:00 A | M | Core Size: 3.0 in | Boring Total Depth: | 20 ft |
| ogged By: | | | | | Project Manager: | Depth to Water: | |
| Physical Loca | ntion: P30 | C - P47AR | <u> </u> | | | Surface Elevation: | 10.8 ft NAVD88 |
| Denth | | | | | | | |
| Range ft bgs) | | Moisture Content | USCS | Graphi Log | Surface Cover and ⁻ | Thickness: | Sample ID |
| _ | 0.0 | | ASPHALT | | ASPHALT | | |
| -1— - -2— _ 5 | 0.0 | dry | FILL | | ASH, trace large gravel, trace coal, gray, loose, dry, no odor, no staining | | |
| -4- - | 0.0 | dry | FILL | | fine to medium SAND, trace gravel, dark yellowish brown, medium dens | | 133-P3C-P47AR-4.5-5.0 |
| -6 | 0.0 | moist | FILL | | staining. ASH, trace coal, trace gravel, (10Yf moist, no odor, no staining. | R 4/1) dark gray, loose, | |
| -7 - 5 | 0.0 | moist | FILL | | fine to medium SAND, trace gravel, yellowish brown, medium dense, m | | 133-P3C-P47AR-6.5-7.0 |
| -8- | 0.0 | moist | FILL | | ASH, trace coal, (10YR 3/1) very da odor, no staining. | ark gray, loose, moist, no | |
| -9 | 0.0 | dry | FILL | | fine to medium SAND, trace gravel, yellowish brown, medium dense, dr | | 133-P3C-P47AR-8.5-9.0 |
| -10 11 | 0.0 | moist | SP | | UNDno fine to medium SAND, trace 4/6) yellowish red, medium dense, staining. Soils consistent with UND | moist, no odor, no | 133-P3C-P47AR-10.5-11.0 |
| -15 | 0.0 | slightly moist slightly moist slightly moist | PT PT OL | | organic fibers, (10YR 3/2) very dark | x grayish brown, low loist, moderate organic with MM. I), 60% organic silt, 40% wn, low plasticity, erate organic odor, no c fibers, (10YR 4/1) dark slightly moist, slight | 133-P3C-P47AR-14.5-15.0 |
| lotes: gs - below surf | | COPR - chr GGM - gree | | essing r | esidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native | | ufactured gas plant romate chemical production wa |

Boring ID: 133-P3C-Q45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610739.5 Date Started Drilling: 4/7/2014 9:40:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682219.5

Date Finished Drilling: 4/7/2014 11:20:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell

| | al Locatio | n: P30 | C - O45A | | | | 1: 12.2 ft N | |
|----------------------------|---------------------|--------------|---------------------|----------|----------------|---|-------------------|-----------------------------|
| Tilysic | ai Locatio | 11. 1 30 | J - Q-10/1 | | | Lievation | | bgs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | | |
| 1 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little ash, glass coal, (10YR 4/2) dark grayish brown, medium dense, odor, no staining. | | 133-P3C-Q45A-1.0-1.5 |
| —3— – – —4— | | | | | | | | 133-P3C-Q45A-3.0-3.5 |
| 5 | | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little brick fragr | | |
| 6 | | 0.0 | dry | FILL | | coarse gravel, (5YR 4/3) reddish brown, medium der no odor, no staining. fine to medium SAND, some cinders, ash, little brick fragments, (7.5YR 3/2) dark brown, medium dense, | / | 133-P3C-Q45A-5.0-5.5 |
| <u> </u> | | 0.0 | moist | FILL | | odor, no staining. | dry, no | |
| - 7- | _ | 0.0 | moist | FILL | | fine to coarse SAND, with cinders, ash, some to little medium gravel, (10YR 4/2) dark grayish brown, loose | | 133-P3C-Q45A-7.0-7.5 |
| ⊢ − | 5 | 0.0 | dry | FILL | | \medium dense, moist, no odor, no staining. | // | 100 1 00 0 10 110 110 |
| 8 | | | ۵., | | | CINDERS, with ash, little wood debris, trace glass, (\$ 2.5/1) black, loose, moist, no odor, no staining. fine to medium SAND, (7.5YR 4/2) brown, medium s | / | |
| 9 | | | | | | no odor, no staining. | , ,, | 133-P3C-Q45A-9.0-9.5 |
| 10 11 | | 0.0 | wet | FILL | | CINDERS, with ash, some fine to medium gravel, (7. 5/1) gray, loose, wet, no odor, no staining. | .5YR | 133-P3C-Q45A-11.0-11.5 |
| 12 12 | 5 | 0.0 | wet | FILL | | CINDERS, with ash, some fine to medium silty sand, medium gravel, trace glass, (7.5YR 5/1) gray, loose, odor, no staining. | | 133-F3C-Q43A-11.0-11.3 |
| 13 | | 0.0 | moist to | FILL | | fine to medium silty SAND, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. | , | 133-P3C-Q45A-13.0-13.5 |
| 14 | | | wet | | | | | 133-P3C-Q45A-14.5-15.0 |
| 15 16 | | 0.0 | dry to moist | PT | <u> </u> | PEAT (degraded vegetated material), 80% organic fit 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff moist, strong organic odor, no staining. Soils consiste MM. | , dry to | 133-P3C-Q45A-15.0-15.5 |
| 17 | | 0.0 | moist | PT | 77 77 | PEAT (degraded vegetated material), 70% organic fit | pers, | |
| L – | 5 | 0.0 | moist | OL | | 30% organic silt, (7.5YR 2.5/2) very dark brown, med stiff, moist, strong organic odor, no staining. Soils co with MM. | nsistent / | |
| —18— — 19— — 20— | | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (5/1) gray, low plasticity, soft, moist, moderate organic no staining. Soils consistent with UNDno. UNDorg SILT, 90% organic silt, 10% organic fibers, (5/1) gray, low plasticity, soft, moist, slight organic odd staining. Soils consistent with UNDorg. | c odor, (7.5YR | |
| | | | | | | Stamming. Comb Consistent With Citaboly. | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Date Started Drilling: 4/7/2014 8:45:00 AM

Project Name: PPG Garfield Ave

Project Number: 60240739

Boring ID: 133-P3C-Q46A

Page: 1

732.564.3200 office telephone

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610718.6 Coordinates (NJSPNAD83) y: 682199.3

Date Finished Drilling: 4/7/2014 9:30:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: SS

Rig Type:

Physical Location: P3C - Q46A Elevation: 12.2 ft NAVD88

| 30.54 | | | | | | | |
|--------------------------|---------------------|--------------|---------------------|-----------------|--|--|----------------------|
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1 -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some cinders, little coal, trace brick, trace glass fragments, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 133-P3C-Q46A-0.5-1.(|
| -3 -4 | 3 | | | | | | 133-P3C-Q46A-2.5-3.0 |
| -5- | | | | | | | 133-P3C-Q46A-4.5-5.0 |
| 5 | | 0.0 | dry | FILL | | fine silty SAND, little fine to medium gravel, trace wood | |
| -6- | | 0.0 | to moist | FILL | | fragments, (10YR 4/1) dark gray, soft, dry to moist, no odor, no staining. | |
| ا ا | | | moist | | | CINDERS, and ash, little wood fragments, trace coal, | |
| -7— -8— | 4 | 0.0 | dry to moist | FILL | | (7.5YR 2.5/1) black, loose, moist, no odor, no staining. fine to medium silty SAND, trace fine gravel, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining. | 133-P3C-Q46A-6.5-7. |
| _ | | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, little coarse gravel, trace ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-Q46A-8.5-9. |
| 9 | | | | NR | | NO RECOVERY | |
| 10 | | 0.0 | moist | FILL | | CINDERS, little coarse gravel, trace ceramic, trace wood | |
| 11 | | | to wet | | | fragments, (5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-Q46A-10.5-11 |
| 12 | 5 | 0.0 | moist | FILL | | fine to medium silty SAND, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. | 133-P3C-Q46A-12.8-13 |
| 13 | | 0.0 | | D.T. | <u> </u> | DEAT (I I I I I I I I I I I I I I I I I I | |
| 14- | | 0.0 | dry | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-Q46A-13.3-13 |
| 15 | | 0.0 | dry | PT | 1, 11, 1 | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 4/2) brown, medium stiff, dry, | |
| 16 | | 0.0 | moist | OL | | moderate organic odor, no staining. Soils consistent with MM. | |
| 17 | 5 | | | | | UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | -4 1\ 2 offe | mnto w | oro mada ta | obtoin boot roc | 201021 2) 11 | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | al af this begins |



Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/8/2014 11:20:00 AM

Boring ID: 133-P3C-Q47A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610710.7 Rig Type: Coordinates (NJSPNAD83) y: 682175.7

Date Finished Drilling: 4/8/2014 12:35:00 PM Core Size: 2 in Boring Total Depth: 6 ft Depth to Water: NA Logged By: ES Project Manager: Chris Martell

| | al Locatio | n : P30 | C - Q47A | | | Elevation: 12.1 ft N | |
|----------------------------|---------------------|----------------|---------------------|-----------------|----------------|---|----------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| - 1- - 2- | 5 | | dry | FILL | | fine to medium SAND, with cinders, little fine to medium gravel, (7.5YR 3/4) dark brown, firm, dry, no odor, no staining. Refusal @ 6.0 ft bgs. Multiple attempts made offset 2 to 5 feet from Q-47A. | 133-P3C-Q47A-1.0-1.5 |
| 3 4 5 | | 0.0 | | | | | 133-P3C-Q47A-3.0-3.5 |
| - | 0 | 0.0 | moist | NR | | NO RECOVERY | |
| 6 Comme | nts: 1) 3 atte | empts w | ere made to | obtain best rec | covery 2) U | IND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | val of this boring. |

PPG - PPG_LOGS.GDT - 6/24/14 16:14

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Q47A-R

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610705.0
Date Started Drilling: Rig Type: Coordinates (NJSPNAD83) y: 682172.5
Date Finished Drilling: Core Size: Boring Total Depth: 20 ft
Logged By: ES Project Manager: Chris Martell Depth to Water: NA

| | 0 0474 5 | | <u> </u> | oject Manager: Chris Mar | teli | Depth to Water: NA | |
|--------------|---------------------|----------------|-------------------------------|--|---|--|---|
| on: P30 | C - Q47A-R | | | | | Elevation: 10.8 ft N | AVD88 bgs = below ground surface) |
| PID (ppm) | Moisture Content | USCS | Graphic Log | Surface C | over and Thickn | | Sample ID |
| 0.0 | dry | FILL | | medium to coarse SAND, loose, dry, no odor, no sta | | YR 4/2) brown, | |
| 0.0 | dry | FILL | | fine to medium SAND, litt | le medium grave | el, trace brick | 133-P3C-Q47A-R-1.0-1 |
| 0.0 | dry | FILL | | fragments, (10YR 4/3) broatsining. fine to medium SAND, an | d cinders, ash, s | some fine to | |
| 0.0 | dry | FILL | | medium gravel, trace coal dense, dry, no odor, no st CINDERS, with ash and coal dense. | aining. coal, (7.5YR 2.5/ | / | 133-P3C-Q47A-R-3.0-3 |
| | | NR | | NO RECOVERY | aining. | | |
| 0.0 | wet | FILL | | fine to medium silty SANE to medium gravel, trace b | rick, (10YR 3/1) | cinders, little fine very dark gray, | 133-P3C-Q47A-R-5.0-5 |
| | | | | loose, wet, no odor, no sta | airiirig. | | 133-P3C-Q47A-R-6.0-6 |
| | | | | | | | 133-P3C-Q47A-R-8.0-8 |
| | | NR | | NO RECOVERY | | | |
| 0.0 | wet | FILL | | fine to medium silty SANI medium gravel, (7.5YR 3/ dense, wet, no odor, no s | 1) very dark gra | | 133-P3C-Q47A-R-10.0-1 |
| 0.0 | moint | OL | | LINDorg CILT 700/ organ | in ailt 200/ arga | nia fibera (10VD | 133-P3C-Q47A-R-11.3-1 133-P3C-Q47A-R-11.8-1 |
| 0.0 | moist to wet | | | UNDorg SILT, 70% organ 5/2) grayish brown, low pl moderate organic odor, no UNDorg. | asticity, soft, mo | ist to wet, | 100-1 30-Q41A-1(-11.0-1 |
| | | NR | | NO RECOVERY | | | |
| 0.0 | moist to wet | OL | | UNDorg SILT, 70% organ 5/2) grayish brown, low pl moderate organic odor, no | asticity, soft, mo | ist to wet, | |
| 0.0 | moist | OL | | UNDorg. UNDorg SILT, 90% organ 5/1) gray, low plasticity, sistaining. Soils consistent | oft, moist, slight | | |
| | | | | | | | |
| | | | | | | | |
| empts | S W | s were made to | s were made to obtain best re | s were made to obtain best recovery 2) U | s were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thic | s were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or | s were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter |

AECOM

Boring ID: 133-P3C-R43A

| Proiec | t Name: F | PPG Ga | rfield Ave | | | Orilling Company: SGS North America | | Page: |
|-----------------------------|---------------------|--------------|-----------------------------|----------------|----------------|---|---|--------------------------------|
| | t Number: | | | | | Orilling Method: Geoprobe | Coordinates (N.ISP | PNAD83) x: 610785.9 |
| | | | | 9:15:00 AM | | Rig Type: | - | NAD83) y: 682266.2 |
| | | | | 4 10:10:00 AM | | Core Size: 2.0 in | Boring Total Depth: | |
| | d By: MI | ming. | 0/0/1/201- | + 10.10.00 Aiv | | Project Manager: Chris Martell | Depth to Water: NA | |
| | al Locatio | n: D2(| C D42A | | | -roject Manager. Chins Manten | Elevation: 12.3 ft N | |
| TiySic | ai Locatio | II. F30 | <u> </u> | | | | | te bgs = below ground surface) |
| | | | | | | | • | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | kness: | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | | |
| -1 -2 -3 | 4 | 0.0 | moist | FILL | | fine to medium SAND, some COPR, litt coal, (5YR 4/2) dark reddish gray, mois staining. | | |
| | | 0.0 | dry | FILL | XXXX | crushed CONCRETE, (9.5/2.5Y_/1) wh | ite, hard, dry, no | |
| -4 -5 | 4 | 0.0 | sl. moist to moist | FILL | | odor, no staining. CINDERS, with ash, little fine gravel, (7 loose, slightly moist to moist, no odor, n | | 133-P3C-R43A-4.0-4.5 |
| -6— -7— | | 450.0 | sl. moist to moist | FILL | | CINDERS, with ash, little fine gravel, little dark gray, loose, slightly moist to moist, odor, sheen. | | 133-P3C-R43A-6.0-6.5 |
| 8 9 | | 73.0 | moist | FILL | | CINDERS, some ash, little fine gravel, (loose, moist, moderate hydrocarbon odd | | 133-P3C-R43A-8.0-8.5 |
| 10 11 11 | 4 | 0.0 | moist | FILL | | sandy SILT, little fine to medium gravel, non plastic, soft, moist, slight petroleum (non-CCPW) staining. | | 133-P3C-R43A-10.0-10. |
| -12 - -13 - | 4 | 0.0 | wet | FILL | | fine silty SAND, some ash, cinders, trace 4/2) dark grayish brown, loose to dense staining. | ee fine gravel, (10YR , wet, no odor, no | 133-P3C-R43A-12.0-12. |
| -14 - -15 - | 1 7 | 0.0 | sl. moist to moist | FILL | | fine silty SAND, little fine gravel, (10YR dense, slightly moist to moist, slight hyd staining. | | 133-P3C-R43A-14.0-14 |
| -16 | | 0.0 | sl. | FILL | | fine silty SAND, little fine gravel, (10YR | 4/1) dark gray, | 133-P3C-R43A-16.0-16 |
| _ | 1 | 0.0 | moist | PT | <u>~~~~</u> | dense, slightly moist to moist, slight hyd | | 133-P3C-R43A-16.5-17 |
| -17 -18 -19 -19 | 4 | | to moist moist | | | 20% organic silt, (7.5YR 3/2) dark brow organic odor, no staining. Soils consiste | n, moist, strong | |
| - 20 | | | | | \\\ \\\\ | | | |

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

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/7/2014 8:40:00 AM

Boring ID: 133-P3C-R44A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610772.3 Coordinates (NJSPNAD83) y: 682239.3

Date Finished Drilling: 4/7/2014 9:35:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA Logged By: MI

Rig Type:

| | al Locatio | | | | | (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 |
| | | 0.0 | | CONCRETE | A 4 A A | CONCRETE | |
| 1 | | 0.0 | dry to slight moist | FILL | | fine to medium SAND, little medium to coarse gravel, trace cinders, coal, (5YR 4/3) reddish brown, medium dense, dry to slightly moist, no odor, no staining. ASH, with cinders, some coal, little fine sand, fine gravel, | 133-P3C-R44A-0.5-1.0 |
| -2 3 | 5 | | slightly moist | | | (10YR 5/6) yellowish brown, loose, slightly moist, no odor, no staining. | 133-P3C-R44A-2.0-2.5 |
| 4 5 | | | | | | | 133-P3C-R44A-4.0-4.5 |
| -6 | | 0.0 | moist | FILL | | ASH, with fine sand, some silt, fine gravel, cinders, coal, (7.5YR 4/1) dark gray, moist, no odor, no staining. | |
| - 7 - 7 | 4 | | | | | | 133-P3C-R44A-6.0-6.5 |
| -8 - -9 | | | | | | | 133-P3C-R44A-8.0-8.5 |
| 9 10 | | | | NR | | NO RECOVERY | |
| -10 - -11 | | 0.0 | moist | FILL | | fine to medium silty SAND, little ash, fine to medium gravel, (5YR 4/2) dark reddish gray, loose to dense, moist, no odor, no staining. | 133-P3C-R44A-10.0-10 |
| -12 | | 0.0 | moist | FILL | | ASH, with fine sand, some silt, fine gravel, cinders, coal, (7.5YR 4/1) dark gray, moist, no odor, no staining. | |
| -13 - -13 - | 5 | | | | | | 133-P3C-R44A-12.0-12. |
| 14- | | | | | | | 133-P3C-R44A-14.0-14 |
| -15 | | 0.0 | moist | FILL | | fine to medium silty SAND, little fine gravel, (7.5YR 3/4) dark | 133-P3C-R44A-15.0-15. |
| _16 | | 0.0 | to wet slightly | PT | <u> </u> | brown, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, | 133-P3C-R44A-15.5-16 |
| | 5 | | moist | | <u> </u> | strong organic odor, no staining. Soils consistent with MM. | |
| | | | | | <u> </u> | | |
| | | | | | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | | |
| -20 | | | | | \ <u>\</u> | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

A=COM

Project Number: 60240739

PPG LOGS.GDT - 6/24/14 16:7

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/7/2014 9:50:00 AM

Date Finished Drilling: 4/7/2014 10:40:00 AM

Boring ID: 133-P3C-R45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America
Drilling Method: Geoprobe

Drilling Method:GeoprobeCoordinates (NJSPNAD83) x: 610758.7Rig Type:Coordinates (NJSPNAD83) y: 682212.5Core Size:2 inBoring Total Depth: 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - R45A

 Elevation:
 12.2 ft NAVD88

Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 133-P3C-R45A-0.5-1.0 0.0 slightly FILL fine to medium SAND, with ash, some cinders, little coal, fine gravel, (7.5YR 3/4) dark brown, loose, slightly moist, no moist odor, no staining. 133-P3C-R45A-2.0-2.5 5 133-P3C-R45A-4.0-4.5 0.0 slightly **FILL** fine to medium SAND, with ash, some cinders, little coal, fine gravel, (7.5YR 3/4) dark brown, loose, slightly moist, no moist odor, no staining. 0.0 133-P3C-R45A-6.0-6.5 **FILL** moist fine to medium SAND, with ash, cinders, some fine to medium gravel, (10YR 3/4) dark yellowish brown, loose, moist, no odor, no staining. 133-P3C-R45A-8.0-8.5 NR NO RECOVERY 133-P3C-R45A-10.0-10.5 0.0 moist **FILL** fine to medium silty SAND, some ash, little fine to medium gravel, trace coal, fill material, medium dense, moist, no odor, no staining. 133-P3C-R45A-12.0-12.5 5 -13 0.0 moist **FILL** ASH, with cinders, coal, some fine sand, silt, fine gravel, to trace fill material, fibers, (7.5YR 5/1) gray, loose, moist to 133-P3C-R45A-13.5-14.0 wet, no odor, no staining. wet 0.0 РΤ 133-P3C-R45A-14.0-14.5 PEAT (degraded vegetated material), 80% organic fibers, slightly 1/ 1/1/ 1 moist 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, slightly moist, strong organic odor, no staining. Soils 11/ 11/ 0.0 slightly PT consistent with MM. moist 1/ 1/1/ 1 PEAT (degraded vegetated material), 80% organic fibers, -16 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, 11, 11, slightly moist, strong organic odor, no staining. Soils 1/ 1/1/ 1 consistent with MM. 11/ 11/ 3 11/11 -18 NO RECOVERY NR 19 20 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.

Logged By: MI

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-R46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 610745.3

Date Started Drilling: 4/4/2014 9:40:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682185.7 Date Finished Drilling: 4/4/2014 10:40:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA

| | D.D | | | | | 0 1 |
|---------------------|--------------|---|-----------------|--|---|---|
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| 5 | 0.0 | dry | FILL | | fine to medium SAND, little ash, cinders, coal, fine gravel, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining. | 133-P3C-R46A-0.5-1.0 |
| | | | | | | 133-P3C-R46A-2.5-3.0 |
| | 0.0 | dry | FILL | | fine to medium SAND, with cinders, some ash, little gravel, brick, trace ceramics, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining. | 400 D00 D404 4 5 5 6 |
| | 0.0 | dry | FILL | | CINDERS, with ash, some fine to medium gravel, (5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 133-P3C-R46A-4.5-5.0 |
| 4 | | | | | | 133-P3C-R46A-6.5-7.0 |
| | 0.0 | moist | FILL | | fine silty SAND, little ash, trace fill material, medium dense, moist, no odor, no staining. | 133-P3C-R46A-8.5-9.0 |
| | | | NR | XXXXX | NO RECOVERY | |
| | 0.0 | moist | FILL | | fine silty SAND, with ash, some cinders, little fine to medium | |
| | 0.0 | to wet moist | FILL | | odor, no staining. ASH, with cinders, little wood fragments, coarse gravel, trace | 133-P3C-R46A-10.5-11 |
| | | wet | | | ceramics, moist to wet, no odor, no staining. | 133-P3C-R46A-12.0-12 |
| 3 | 0.0 | dry | PT | <u> </u> | PEAT (degraded vegetated material) 80% organic fibers | 133-P3C-R46A-12.5-13 |
| | | | NR | | 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. NO RECOVERY | |
| | 0.0 | moist | PT | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, moist, strong petroleum odor, no staining. Soils consistent with | |
| 5 | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | |
| | 5 5 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 dry | 0.0 CONCRETE | 0.0 CONCRETE | 0.0 CONCRETE 1.2 CONCRETE fine to medium SAND, little ash, cinders, coal, fine gravel, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining. |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/8/2014 10:15:00 AM

Boring ID: 133-P3C-R47A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610731.8 Rig Type: Coordinates (NJSPNAD83) y: 682159.0 Core Size: 2 in Boring Total Depth: 20 ft

Date Finished Drilling: 4/8/2014 11:10:00 AM Depth to Water: NA Logged By: MI Project Manager: Chris Martell

Physical Location: P3C - R47A Elevation: 12.2 ft NAVD88

| D 41- | | | | | | | |
|---------------------------|---------------------|--------------|------------------------------|----------|--|--|-----------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | | CONCRETE | |
| -1 -2 | 5 | 0.0 | dry to slight moist | FILL | | CINDERS, with ash, some fine to medium sand, coal, little fine gravel, trace brick, (10YR 4/2) dark grayish brown, dry to slightly moist, no odor, no staining. | 133-P3C-R47A-1.0-1.5 |
| -3— -4— - | | | | | | | 133-P3C-R47A-3.0-3.5 |
| -5— -6— | | 0.0 | moist | FILL | | ASH, with cinders, some fine sand, little silt, wood fragments, trace ceramics, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-R47A-5.0-5.5 |
| -7 -8 -9 | 5 | | | | | | 133-P3C-R47A-7.0-7.5 |
| -10 | | 0.0 | moist | FILL | | ASH, some cinders, fine gravel, trace ceramics, wood | 133-P3C-R47A-9.0-9.5 |
| -11 -12 - | 5 | | | | | fragments, (7.5YR 5/1) gray, loose, moist, no odor, no staining. | 133-P3C-R47A-11.0-11 |
| -13 | | | | | | | 133-P3C-R47A-13.0-13. |
| -14 - | | 0.0 | slightly moist | PT | \(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\fr | PEAT (degraded vegetated material), 70% organic silt, 30% organic fibers, (7.5YR 3/3) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-R47A-13.5-14. |
| -15 -16 -17 | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| -18 | 5 | | | | | | |
| -19 - - -20 - | | | | | | | |
| | | | | | | | |
| ommer | 1) 2 offe | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inte | |

Boring ID: 133-P3C-R48A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610723.0 Date Started Drilling: 4/3/2014 10:35:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682140.3 Date Finished Drilling: 4/3/2014 12:00:00 PM Core Size: 2 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: MI Project Manager: Chris Martell

Physical Location: P3C - R48A Elevation: 12.2 ft NAVD88

| Depth Range (ft bgs) | Recovery (ft/ft) | PID | Moisture | 11000 | Graphic | | Sample |
|----------------------------|---------------------|-------|--------------------|-------|-----------|---|----------------------|
| | ` , | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID |
| _ | | 0.0 | | | P 4 4 P | CONCRETE | |
| -1 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with cinders, trace brick, fill material, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining. | 133-P3C-R48A-0.5-1.0 |
| -3— -4— | | | | | | | 133-P3C-R48A-2.5-3.0 |
| | | | | | \bowtie | | 133-P3C-R48A-4.5-5.0 |
| -6- | | 0.0 | dry to moist | FILL | | fine to medium SAND, with cinders, some gravel, (7.5YR 3/1) very dark gray, medium dense, dry to moist, no odor, no staining. | |
| -7- | 4 | | | | | | 133-P3C-R48A-6.5-7.0 |
| | | | | | \bowtie | | 133-P3C-R48A-8.5-9.0 |
| 9-10 | | | | NR | | NO RECOVERY | |
| 11— | | 0.0 | wet | FILL | | CINDERS, with ash, some fine to coarse gravel, (7.5YR 5/1) gray, loose, wet, no odor, no staining. | 133-P3C-R48A-10.5-11 |
| -12 | | 0.0 | moist | FILL | | SILT, some ash, little coarse gravel, (7.5YR 4/1) dark gray, | 133-P3C-R48A-11.7-12 |
| 13- | 3 | 0.0 | moist | OL | | (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR | 133-P3C-R48A-12.2-12 |
| 14 | | | | NR | | 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. NO RECOVERY | |
| 15 - | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 17— | 5 | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 + | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Date Started Drilling: 3/31/2014 10:20:00 AM

Project Name: PPG Garfield Ave

Project Number: 60240739

Boring ID: 133-P3C-S43A

Page: 1

Drilling Company: SGS North America Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610812.5 Rig Type: Coordinates (NJSPNAD83) y: 682252.8

Date Finished Drilling: 3/31/2014 11:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: MI Depth to Water: NA Project Manager: Chris Martell

| | | | | | | 1001 | e bgs = below ground surface) |
|--------------------------|---------------------|--------------|------------------------------|----------|---|--|-------------------------------|
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D P 4 D | CONCRETE | |
| -1- | | 0.0 | slightly moist | FILL | | COPR, little fine to medium sand, trace crushed concrete, (2.5YR 3/6) dark red, loose to dense, slightly moist, no odor, no staining. | |
| -2 -3 - | 4 | 0.0 | dry to slight moist | FILL | | ASH, some cinders, coal, trace wood fragments, (10YR 6/2) light brownish gray, loose, dry to slightly moist, no odor, no staining. | 133-P3C-S43A-1.5-2.0 |
| -4 -5 | | 0.0 | moist | FILL | | ASH, some cinders, little coal, silt, little fine gravel, fine sand, (7.5YR 5/1) gray, loose, moist, no odor, no staining. | |
| -6 -7 | 4 | 202.0 | | | | | 133-P3C-S43A-5.5-6.(|
| -8- | | 203.0 | moist | FILL | | ASH, some cinders, little coal, silt, little fine gravel, fine sand, (10YR 5/2) grayish brown, loose, moist, strong hydrocarbon odor, no staining. | 133-P3C-S43A-7.5-8.0 |
| -9- | | 0.0 | moist | FILL | | CINDERS, some ash, coal, trace fine gravel, (7.5YR 2.5/1) black, moist, no odor, no staining. | |
| _10 | 4 | | | | | | 133-P3C-S43A-9.5-10. |
| -11 | | 37.0 | moist | FILL | | fine silty SAND, with cinders, little fine gravel, trace ash, (7.5YR 2.5/1) black, loose to dense, moist, moderate hydrocarbon odor, sheen. | |
| -12 | | | | | | | 133-P3C-S43A-11.5-12 |
| -13 | | 0.0 | wet | FILL | | ASH, some silt, fine sand, cinders, little wood fragments, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | |
| 1 | 4 | 0.0 | moist to | FILL | | gravelly SAND, some ash, little cinders, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-S43A-13.5-14 |
| -14 - -15 | · | 0.0 | wet moist | FILL | | CINDERS, some ash, coal, trace fine gravel, (7.5YR 2.5/1) black, moist, no odor, no staining. | |
| -16 | | 0.0 | | | | | 133-P3C-S43A-15.5-16 |
| 4 | | 0.0 | moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated material), 70% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, | 133-P3C-S43A-16.2-16 |
| -17 | | 0.0 | moist | PT | 1, 11, 1 | soft to stiff, moist, moderate organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 70% organic fibers, | 133-P3C-S43A-16.7-17 |
| 18 | 2 | | | NR | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, soft to stiff, moist, moderate organic odor, no staining. Soils | |
| 19 | | | | | | \consistent with MM. NO RECOVERY | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Boring ID: 133-P3C-S44A

Page: 1

Date Started Drilling: 4/4/2014 8:30:00 AM

Project Name: PPG Garfield Ave

Project Number: 60240739

Drilling Company: SGS North America **Drilling Method:** Coordinates (NJSPNAD83) x: 610799.2 Rig Type: Coordinates (NJSPNAD83) y: 682226.0 Core Size: 2.0 in Boring Total Depth: 20 ft

Date Finished Drilling: 4/4/2014 9:55:00 AM Depth to Water: NA Logged By: FM Project Manager: Chris Martell

Physical Location: P3C - S44A Elevation: 12.1 ft NAVD88

| Depth | | | | | | | |
|------------------|---------------------|--------------|---------------------|----------|--|--|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 0 0 0 0 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | slightly moist | FILL | | ASH, with cinders, some fine sand, trace glass fragments, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-0.5-1.0 |
| -3- | | | | | | | 133-P3C-S44A-2.5-3.0 |
| -4 | | 0.0 | slightly moist | FILL | | fine to medium sandy ASH, some fine sand, little glass, trace wood fragments, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-4.5-5.0 |
| -5- | | 0.0 | moist | FILL | | ASH, some cinders, some fine gray sand, trace silt, trace fill | 133-130-3447-4.3-3.0 |
| -6 -7 | | 0.0 | moist | I ILL | | debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-S44A-6.5-7.0 |
| -8 | 5 | | | | | | |
| 9 | | 0.0 | moist to wet | FILL | | fine to medium silty SAND, some medium gravel, trace mixed fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-S44A-8.5-9.0 |
| -10 | | 0.0 | slightly | FILL | | fine to medium silty SAND, some fine gravel, slightly firm, | |
| -11 -12 | 5 | | moist | | | (7.5YR 4/3) brown, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-10.5-11 |
| 13 | 5 | | | | | | 133-P3C-S44A-12.5-13 |
| 14 | | 0.0 | wet | FILL | | ASH, some fine to medium gravel, trace medium to coarse sand, trace coal, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | 133-P3C-S44A-14.5-15 |
| 15 | | 0.0 | moist | FILL | | ASH, some cinders, some medium sand, trace fine to | |
| \dashv | | | to | | | medium gravel, (7.5YR 4/1) dark gray, loose, moist to wet, | 133-P3C-S44A-15.5-16 |
| 16 - | | 0.0 | wet slightly moist | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, slightly moist, | 133-P3C-S44A-16.0-16 |
| 17— | 5 | | | | <u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u> | moderate organic odor, no staining. Soils consistent with MM. | |
| -18 - | | | | | <u> </u> | | |
| -19 - | | | | | 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1 | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ENICD | AECOM | Client: PPG Industries | | BORIN | |
|------------|---------------------------------------|--|-----------|---------------------------------------|--------------------------------------|
| ENSR | AECON | Site: Site 137 | | 137 | 7-B8 |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/25/200 |)7 | Coordinates: X-610766.9 Y-682546 | 5.5 | Depth of Bori | ng: 32.00 |
| End Dat | e: | Elevation: 14.2 ft NAVD88 | | Geologist: P | . Kelly |
| 1/25/200 | | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample Parameters |
| 0_ | Λς | SPHALT: ASPHALT | | | |
| | _ × × × | | 1 | | |
| | × × FIL | L: Gray coarse GRAVEL (asphalt sub-base) | | | |
| | × × SA | L: Dark Reddish Brown (2.5YR 2.5/3) coarse ND, some fine to coarse Gravel and Silt, little fine avel, brick fragments and 20% COPR, dry. | | 137-B8A (1.2-1.4) | MS/MSD, Cr+6, TAL Metals |
| 2— | ^ x ^ x | | | | |
| 4— | X X SA | L: Dark Reddish Brown (2.5YR 2.5/3) coarse ND, some fine gravel-sized COPR (30%) and fine avel, dry. | | 137-B8B(3.8-4.2) 137-B8BD(3.8-4.2) | Cr+6, TAL Metals Cr+6, TAL Metals |
| _ | X X SA | L: Dark Reddish Brown (2.5YR 2.5/3) coarse ND, some fine gravel-sized COPR (30%) and fine avel, dry. | 0.0 ppm | | |
| 6— | × × × × × × × × × × × × × × × × × × × | aver, ury. | 22.1 ppm | | |
| 8- | | L: Black (10YR 2/1) fine SAND, little fine to medium avel, petroleum sheen observed, moist. Diesel fuel or. | 98.5 ppm | 137-B8C(7.0-7.2) | Cr+6, TAL Metals |
| | × × NF | R: No Recovery | 0.0 ppm | | |
| - | | L: Grayish Brown (10YR 5/2) coarse SAND, some t and Clay, little fine Gravel, wet. | 0.0 ppm | 137-B8D(9.1-9.4) | Cr+6, TAL Metals |
| | NF | R: No Recovery | | 10. 202(0 0) | , |
| 10 — | | , | 0.0 ppm | | |

| ENSR | AECOM | Client: PPG Industries | | BORIN | |
|------------|---|--|-----------|------------------------|-------------------|
| LINSK | AECOIV | Site: Site 137 | | 137 | 7-B8 |
| Start Dat | te: | Project: Site Investigation | | Page: 2 of 3 | |
| 1/25/200 |)7 | Coordinates: X-610766.9 Y-682546 | .5 | Depth of Boria | ng: 32.00 |
| End Date | e: | Elevation: | | Geologist: P | . Kelly |
| 1/25/200 | | Drill Subcontractor: Terra Probe Incorporate | | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | biD (bbw) | Sample ID | Sample Parameters |
| 12 — | × × × FIL × × × mo × × × × × × × × × × × × × × × × × | .L: Lime Green SILT and CLAY, little fine Gravel, | NA | 137-B8E(13.2-13.5) | Cr+6, TAL Metals |
| | x x str | L: Black (2.5YR 2.5/1) ASH, some fine Sand, little e Gravel, trace glass and ceramic fragments, moist. ong organic odor. | | 137-B8F(14.8-15.1) | Cr+6, TAL Metals |
| 16 — | × × fine | L: Black (2.5YR 2.5/1) ASH, some fine Sand, little e Gravel, trace glass and ceramic fragments, moist. ong organic odor. | | | |
| | | T AND CLAY: Brown (10YR 4/3) CLAY and SILT, e organics, moist. | 0.0 ppm | 137-B8G (17.1-17.8) | Cr+6, TAL Metals |
| 18 — | | | 0.0 ppm | | |
| | NR | 2: No Recovery | | | |
| 20 — | = : ∓ : ∓ littl∉ ∓ : ∓ : | T AND CLAY: Brown (10YR 4/3) CLAY and SILT, e organics, moist. | 0.0 ppm | | |
| | | AT: Dark Brown (7.5 YR 3/2) CLAY and RGANICS (meadow mat), moist. | 0.0 ppm | | |

 $\underline{\textbf{NOTES:}} \quad \text{Coordinates are provided in New Jersey State Plane NAD 1983 Feet.}$

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|--|--|-----------|--------------------|-------------------|
| ENSR AECOM | Site: Site 137 | | 137 | '-B8 |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 1/25/2007 | Coordinates: X-610766.9 Y-682546 | 5.5 | Depth of Borir | ng: 32.00 |
| End Date: | Elevation: | | Geologist: P. | . Kelly |
| 1/25/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heath | Kneller |
| Debty (4) Tityology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 22 + | | 0.0 ppm | 137-B8H(22.1-22.4) | Cr+6, TAL Metals |
| 24 - CLA | AYEY SAND: Gray (10YR 5/1) fine SAND, some y and Silt, wet. | 0.0 ppm | 427 D01/24 0 25 2) | Cr. C. TAL Metala |
| 26 — | | | 137-B8I(24.9-25.2) | Cr+6, TAL Metals |
| | AYEY SAND: Gray (10YR 5/1) fine SAND, some y and Silt, wet. | NA NA | | |
| SAN | ND AND SILT: Dark Red (2.5YR 3/6) coarse SAND, ne Silt, little Clay, trace fine Sand, wet. | | | |
| 32 — \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | LL: End of Boring at 32 ft. | | | |

| ENCD | AECOM | Client: PPG Industries | | | NG ID: |
|------------|--|---|-----------|------------------------|----------------------|
| ENSR | AECOM | Site: Site 137 | | 13 | 7-B10 |
| Start D | ate: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/25/20 | 007 | Coordinates: X-610836.1 Y-682503 | .7 | Depth of Bor | ing: 32.00 |
| End Da | ate: | Elevation: 15.3 ft NAVD88 | | Geologist: F | P. Kelly |
| 1/25/20 | | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heat | h Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0_ | | | I I | | 1 |
| | ××× \AS | PHALT: ASPHALT | | | |
| | ^× × FIL | L: Gray coarse GRAVEL (asphalt sub-base) | 0.0 ppm | | |
| | | L: Green Gray (Gley 5GY 6/1) coarse SAND, some eto medium Gravel, little brick fragments, moist. | 0.0 ppm | 137-B10A (1.0-1.6) | Cr+6, TAL Metals |
| | X X | e to medium Graver, little blick fragments, moist. | 0.0 ppm | 137-B10B (1.6-2.0) | Cr+6, TAL Metals |
| 2+ | | L: Dark Red (2.5 YF 3/4) CLAY, some coarse Sand, e fine gravel-sized COPR (10%). | 0.0 ppm | (1.0-2.0) | |
| _ | | L: Green Gray (Gley 5GY 6/1) SILT and CLAY, me fine Gravel (green-gray mud), wet. | 0.0 ppm | 137-B10C (3.0-3.5) | Cr+6, TAL Metals |
| 4— | × × × × × × × × × × | | | | |
| | × × FIL | L: Lime Green SILT and CLAY, little fine Gravel, | 0.0 ppm | 137-B10D | Cr+6, TAL Metals |
| | × × firm | n, moist. | 0.0 ppm | (5.1-5.3) | |
| 6— | × × × × × × | | 0.0 ppm | | |
| | × × Sai | L: Black stained Pale Brown (10YR 6/3) ASH, some nd, little finr Gravel, trace glass, ceramic fragments. ong terpentine odor. | 68.3 ppm | 137-B10E (6.8-7.2) | Cr+6, TAL Metals |
| 8+ | $^{^{^{^{^{^{^{^{^{^{^{^{^{^{^{^{^{^{^{$ | L: Greenish Gray (5B 6/1) ASH, some fine to edium Gravel and coarse Sand, little ceramic and ck fragments, wet. | 12.5 ppm | | |
| | × × × | | 12.5 ppm | | |
| 10- | × × × × × × × × | | 11.5 ppm | 137-B10F (9.6-10.3) | Cr+6, TAL Metals |

| ENSR A | AECOM | Client: PPG Industries | | BORIN | |
|----------------|-------------------|---|-----------|---|--------------------------------------|
| ENSK | AECUM | Site: Site 137 | | 137 | '-B10 |
| Start Date: | | Project: Site Investigation | | Page: 2 of 3 | |
| 1/25/2007 | | Coordinates: X-610836.1 Y-682503 | 3.7 | Depth of Borin | ıg: 32.00 |
| End Date: | | Elevation: | | Geologist: P. | |
| 1/25/2007 | | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heath | Kneller |
| Depth (ft) Lit | hology | Description | PID (PPM) | Sample ID | Sample Parameters |
| × | × × × × × × | | 11.5 ppm | | |
| 12 - × | × × med | L: Greenish Gray (5B 6/1) ASH, some fine to dium Gravel and coarse Sand, little ceramic and k fragments, wet. | 2.7 ppm | | |
| - × | × × × × × × | ik iraginents, wet. | 2.5 ppm | 137-B10G (12.9-13.3) | Cr+6, TAL Metals |
| 14 — × | × × × × × × | | 2.5 ppm | | |
| | NR: | : No Recovery | | | |
| 16 — | | | | 137-B10H (15.5-16.0) | Cr+6, TAL Metals |
| × | × × med | L: Greenish Gray (5B 6/1) ASH, some fine to dium Gravel and coarse Sand, little ceramic and k fragments, wet. | 10.0 ppm | | |
| - × | ××× | | 10.0 ppm | | |
| × | ×^× | | 0.6 ppm | | |
| 18 — × | × × × × × | | 0.0 ppm | | |
| - | NR: | : No Recovery | | | |
| 20 — | PEA | AT: Dark Brown (7.5YR 3/2) CLAY and ORGANICS | 25.6 ppm | | |
| | (me | eadow mat) | | 137-B10I(20.5-21.0) 137-B10ID(20.5-21.0) | Cr+6, TAL Metals Cr+6, TAL Metals |
| | <u></u> | | 25.6 ppm | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|-------------|---|-----------|-------------------------|-----------------------------|
| ENSK AECOM | Site: Site 137 | | 13 | 7-B10 |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 1/25/2007 | Coordinates: X-610836.1 Y-682503 | 3.7 | Depth of Bor | ing: 32.00 |
| End Date: | Elevation: | | Geologist: F | |
| 1/25/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | h Kneller |
| Debity (41) | Description | PID (PPM) | Sample ID | Sample Parameters |
| 22 — | | 63.1 ppm | | |
| - ++ | | 63.1 ppm | 407 P40 I | MC/MCD, Cr. C, TAI |
| 24 - SAN | ND: Gray (10YR 5/1) fine SAND, some Clay and little organics, dense. Strong organic odor. | 38.0 ppm | 137-B10J (23.5-24.0) | MS/MSD, Cr+6, TAL Metals |
| - Sill, | illue organics, dense. Strong organic odor. | 38.0 ppm | 137-B10K (24.8-25.2) | Cr+6, TAL Metals |
| | | 32.5 ppm | | |
| 26 — | | 32.5 ppm | | |
| - | | 25.5 ppm | | |
| | ND: Gray (10YR 5/1) fine SAND, some Clay and little organics, dense. Strong organic odor. | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 30 — | | 0.0 ppm | | |
| | ND: Dark Red (2.5YR 3/6) coarse SAND, some Silt, e Clay, trace fine Gravel. | 0.0 ppm | | |
| | ND: No Recovery | | | |
| 32 — NUI | LL: End of Boring at 32 ft. | | | 1 |

| ENSR | AECOM | Client: PPG Industries | | | NG ID: |
|------------|---------------------------------------|---|-----------|-----------------------|----------------------|
| ENSK | AECOM | Site: Site 137 | | 13 | 7-B12 |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/23/200 |)7 | Coordinates: X-610923.3 Y-682581 | .6 | Depth of Bor | ring: 32.00 |
| End Dat | e: | Elevation: 15.9 ft NAVD88 | | Geologist: F | P. Kelly |
| 1/23/200 | | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heat | th Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0_ | × × × × | | | | |
| | ×××××× ××××××× CO | NCRETE: CONCRETE | 0.0 ppm | | |
| - | | NCRETE: Dark Gray , fine to coarse GRAVEL with es (sub-base). | | | |
| | ××× FILI | L: Dark Red (10R 4/1) CLAY, some fine Sand, Silt, e fine Gravel, trace COPR (5%). | | 137-B12A (1.2-1.8) | Cr+6, TAL Metals |
| 2— | × × × × × × × × × × × × × × × × × × × | e lille Glavel, liace COPK (5%). | | | |
| _ | ^ | | | | |
| 4— | NR: | : No Sample | | | |
| | | L: Dark Red (10R 4/1) CLAY, some fine Sand, Silt, e fine Gravel, trace COPR (5%). | 0.0 ppm | | |
| | ^ x ^ x × x × x | | | | |
| 6— | | L: Dark Gray (10YR 4/1) ASH, some fine Sand, Silt, d ceramic fragments. | 0.0 ppm | 137-B12B (6.3-6.8) | Cr+6, TAL Metals |
| - | | L: Dark Gray (10YR 4/1) ASH, some Clay, Silt, ck and glass fragments, wet. | | | |
| 8— | | L: Dark Gray (10YR 4/1) ASH, some fine Sand, Silt, d ceramic fragments. | NA | | |
| - | × × × × × × | | | | |
| 10 — | × × × × × × × × × × × × × × × × × × × | | NA | | |

| ENCD | A FCOM | Client: PPG Industries | | | NG ID: | |
|------------|--------------------------------------|--|--------------|-------------------------|------------------|--|
| ENSR | AECOM | Site: Site 137 | 137-B12 | | | |
| Start Da | ite: | Project: Site Investigation | Page: 2 of 3 | | | |
| 1/23/200 | 07 | Coordinates: X-610923.3 Y-682581 | Depth of Bor | ing: 32.00 | | |
| End Dat | e: | Elevation: | Geologist: F | P. Kelly | | |
| 1/23/200 | | Drill Subcontractor: Terra Probe Incorporate | | Driller: Heat | h Kneller | |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample | |
| | $^{\sim} \times ^{\sim} \times$ brid | L: Black (2.5Y 2.5/1) fine GRAVEL and ASH, some ck and glass fragments, little woody organic terial. Strong chemical odor. | | 137-B12C (10.9-11.5) | Cr+6, TAL Metals | |
| 12— | v×v× brid | L: Black (2.5Y 2.5/1) fine GRAVEL and ASH, some ck and glass fragments, little woody organic terial. Strong chemical odor. | 0.0 ppm | | | |
| | × × × × × × | | 0.0 ppm | 137-B12D (13.1-13.6) | Cr+6, TAL Metals | |
| 14 — | × × × × × × × × × × | | 0.0 ppm | | | |
| | NR | : No Recovery | | | | |
| 16 — | | | 0.0 ppm | | | |
| 18 — | | | - | 137-B12E (17.8-18.3) | Cr+6, TAL Metals | |
| | | | | | | |
| 20 + | NR | : No Recovery | | | | |
| | | L: Dark Gray (10YR 4/1) ASH, some Clay, Silt, ck and glass fragments, wet. | 0.0 ppm | | | |
| | ××× | | 34.3 ppm | | | |

| ENSR AECO | Client: PPG Industries | | | NG ID: |
|--|--|--------------|-------------------------|-------------------|
| ENSR AECC | Site: Site 137 | | 13 | 7-B12 |
| Start Date: | Project: Site Investigation | Page: 3 of 3 | | |
| 1/23/2007 | Coordinates: X-610923.3 Y-682581 | Depth of Bor | ring: 32.00 | |
| End Date: | Elevation: | | Geologist: | |
| 1/23/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | th Kneller |
| Depth (ft) Lithology | Description | PID (PPM) | Sample ID | Sample Parameters |
| 22 — | PEAT: Dark Brown (10YR 3/3) CLAY and ORGANICS (meadow mat). Strong odor. | 1 | 137-B12F (22.0-22.4) | Cr+6, TAL Metals |
| TT | | 45.2 ppm | | |
| 24 + | CLAY: Gray (10YR 5/1) CLAY, some Silt and fine | NA | | |
| | Sand, trace organics. | | 137-B12G (24.5-25.1) | Cr+6, TAL Metals |
| 26 — | | 0.0 ppm | | |
| | NR: No Recovery | | | |
| 28 — | SAND: Very Dark Gray (5Y 3/1) fine Sand, some Silt and Clay, trace Gravel, loose, wet. | NA NA | | |
| 30 — | | | | |
| 32 | NULL: End of Boring at 32 ft. | | | |

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller J. Malecki

Drilling Date: 1/17/2007

Well Completion Date: 2/21/2007

Elevation 13.5 ft NAVD88

State Plane Coordinates

X: 610974.4

Y: 682539.2

Drilling Method: HSA/Mud Rotary



137-MW4B

Page: 1 of 4

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|----------------------------------|---------------------------------|--|-----------|---------------------------------|-----------|--|
| -0 -1 -2 -3 -4 -5 | | 2 in dia PVC Riser Bentonite-cement Grout 6 in Steel Casing 137-4BA (0.6-1.0) Cr+6, TAL Metals 137-4BB (1.5-2.0) Cr+6, TAL Metals | N/A | 6 | | Asphalt Coarse Gravel, Subsurface macadam, Asphalt subbase Dusky Red (2.5YR, 3/2) coarse SAND, some fine Gravel, some Silt, little fine gravel sized COPR 10% Black (5Y, 2.5/1) coarse SAND and Yellow (5Y, 8/6) coarse sand to coarse gravel sized conglomerate Silt, hard. Cobbles Black (5Y, 2.5/1) SILT and ASH, some Yellow (5Y8/6) coarse sand to coarse gravel sized Coal, trace woody organics. |
| - -6 - -7 - -8 | | 137-4BC (5.0-5.4) Cr+6, TAL Metals 137-4BD (7.8-8.3) Cr+6, TAL Metals | N/A | 6 5 5 6 4 5 6 | × | Gray ASH and Fill Material, loose, moist. No odor. |

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller J. Malecki

Drilling Date: 1/17/2007

Well Completion Date: 2/21/2007

Elevation

State Plane X: 682539.2 **Y:** 610974.4

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 2 of 4

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | logic Description |
|------------|---------------------------------|---|-----------|----------|---|-------------------|
| | | | | | | |
| 9 | | | | 6 | × × × × × × × × × × × × × × × × × × × | |
| | | | | 7 | × × × × × × × × × × × × × × × | |
| 10 | | | | 7 | × × × × × × | |
| | | | | 8 | × × × × × × × × × × × × × × × × × × × | |
| 11 | | | | | ^ x ^ x ^ x ^ x _ x _ x _ x _ x _ x _ x | |
| | | | | 6 | ×^×^× | |
| | | | | 5 | × × × × × × × × × × × × × × × × × × × | |
| 12 | | 137-4BE (12.0-13.0) Cr+6, TAL Metals 137-4BED (12.0-13.0) Cr+6, TAL Metals | N/A | 4 | × × × × × × × × × × × × × × × × × × × | |
| | | Cr+6, TAL Metals | | 6 | × × × × × × × × × × × × × × × × × × | |
| 13 | | | - | 4 | × × × × × × × × × × × × × × × × × × × | |
| | | | | 4 | × × × × × × × × × × × × × × × × × × × | |
| 14 | | | | 3 | × × × × × | |
| | | | | 4 | × × × × | |
| — 15 | | | | 6 | ^ x ^ x ^ x ^ x _ x _ x _ x _ x _ x _ x | |
| | | 137-4BF (15.5-16.1) Cr+6, TAL Metals | N/A | 5 | × × × × | |
| — 16 | | Cr+6, TÀL Metals ' |] | | × × × × × × × × × × × × × × × × × × × | |
| | | | | 4 | × × × × × × | |
| — 17 | | | | 4 | × × × × × × × × × × × × × × × | |
| | | | | 4 | × × × × × | |

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller J. Malecki

Drilling Date: 1/17/2007

Well Completion Date: 2/21/2007

Elevation

State Plane X: 682539.2 **Y:** 610974.4

Coordinates

Drilling Method: HSA/Mud Rotary



137-MW4B

Page: 3 of 4

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|----------------|---------------------------------|--|-----------|----------|-----------|--|
| | | | | 4 | ^×^×^> | |
| 18 | | 137-4BG (18.0-18.5) Cr+6, TAL Metals | N/A | 3 | X X X | Black PEAT, organics, cohesive, soft, moist. Sulfur odor. |
| | | | - | 2 | | Canal Caci. |
| <u> </u> | | 137-4BH (19.0-20.0) MS/MSD, Cr+6, TAL Metals | N/A | 2 | TT TT | |
| _20 | | | | 3 | TT TT | |
| | | | | 3 | TT TT | |
| — 21 | | 137-4BI (21.0-22.0) | N/A | 2 | | |
| | | MS/MSD, Cr+6, TAL Metals | IN/A | 2 | | Gray organic CLAY, little Peat, cohesive, soft, moist. Sulfur odor |
| - 22 | | | - | 3 | | |
| _ | | | | 3 | | |
| 23 | | 137-4BJ (23.0-24.0) Cr+6, TAL Metals | N/A | 2 | | |
| | | 137-4BJD (23.0-24.0) Cr+6, TAL Metals | | 2 | | |
| — 24 | | | - | 3 | | |
| | | 137-4BK (24.5-25.0) Cr+6, TAL Metals | N/A | 5 | | Gray Silty fine to medium SAND, loose, wet. Slight sulfur odor. |
| 25 | | | - | 6 | | Gray Silty fine to medium SAND, loose, wet. no odor. |
| | | | | 7 | | |
| 26 | | #00 Sand Seal | | 5 | | |

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller J. Malecki

Drilling Date: 1/17/2007

Well Completion Date: 2/21/2007

Elevation

State Plane X: 682539.2 **Y:** 610974.4

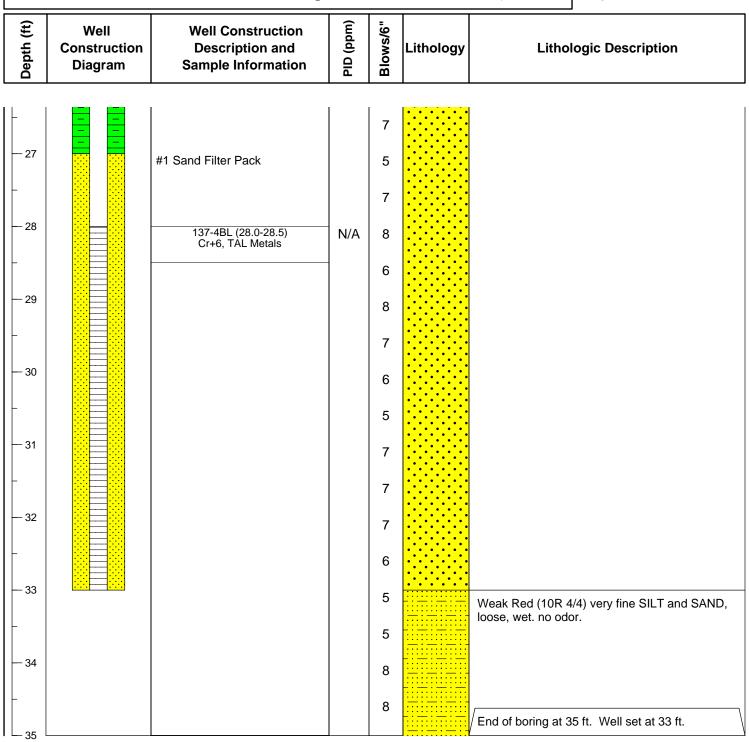
Coordinates

Drilling Method: HSA/Mud Rotary



137-MW4B

Page: 4 of 4





Boring ID: 137-P3B-M31A

| | t Name: F | | | | | Drilling Company: SGS North America | | |
|---------------------------|---------------------|--------------|---------------------|------------------|---------------|--|-------------------------------------|-----------------------------|
| Project | t Number: | 60240 | 739 | | | Drilling Method: Geoprobe | Coordinates (NJSPI | NAD83) x: 610814.0 |
| | | | | 3:40:00 AM | | Rig Type: | Coordinates (NJSPN | IAD83) y: 682655.1 |
| Date Fi | inished Dr | illing: | 7/17/2013 | 10:36:00 AM | Л | Core Size: 3 in | Boring Total Depth: | 21 ft |
| | d By: JF | | | | | Project Manager: Chris Martell | Depth to Water: NA | |
| Physic | al Location | n: Site | e 137 - M3 | 1A | | | Elevation: 13.8 ft N | |
| | | | | | | | (Note | bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickr | ness: | Sample ID |
| _ | | 0.0 | | CONCRETE | P P P P | CONCRETE | | |
| -1 | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, with trace silt strong brown, non plastic, loose, dry to odor, iron oxide staining. | | |
| | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, (7.5YR 4/6) s plastic, loose, dry to slightly moist, no o staining. | | |
| _ | | 0.0 | moist | FILL | | COPR, with some fine sand and trace f | ine gravel, (5YR | |
| -4 | | 0.0 | moist | FILL | | 3/4) dark reddish brown, non plastic, loo | | |
| -5- - | 2 | | moiot | | | \odor, iron oxide staining. COPR, with some fine sand and trace of (5YR 3/4) dark reddish brown, non plas no odor, iron oxide staining. | | |
| -6 -7 - | 2 | 0.0 | moist | FILL | | COPR, with some fine sand and trace of (5YR 3/4) dark reddish brown, non plas no odor, iron oxide staining. | | |
| -8- | | 0.0 | moist | FILL | | COPR, with some fine sand and trace of | coarse gravel, | |
| -9 - | 1.5 | 0.0 | moist to wet | FILL | | (5YR 3/4) dark reddish brown, non plas no odor, iron oxide staining. FILL MATERIAL, as 10% COPR, 90% of fine to medium gravel, (10YR 4/1) dark | tic, loose, moist, | |
| -10 | | 0.0 | moint | | XXXX | medium dense, moist to wet, no odor, r | | |
| _ | 2 | 0.0 | moist to wet | FILL | | NO RECOVERY GGM, with some fine sand and trace sil green, non plastic, loose, moist to wet, staining. | t, (5GY 4/4) olive | |
| -12 - -13 - | 2 | 0.0 | moist to wet | FILL | | GGM, with some fine sand and trace sil green, non plastic, loose, moist to wet, staining. | | |
| -14 - -15 - | . 2 | 0.0 | moist to wet | FILL | | GGM, with some fine sand and trace sil green, non plastic, loose, moist to wet, staining. | | |
| -16 — - -17— - | 2 | 0.0 | moist to wet | FILL | | GGM, with some fine sand and trace sil green, non plastic, loose, moist to wet, staining. | | |
| –18 – – | _ | 0.0 | moist to | FILL | | GGM, with some fine sand and trace sil green, non plastic, loose, moist to wet, | | |
| -19 - | 2 | 0.0 | wet wet | FILL | | staining. FILL MATERIAL, as ash, cinders with s and fine to coarse gravel, (7.5YR 3/1) v | ery dark gray, non | 137-P3B-M31A-18.8-19 |
| -20 - -21 | 1 | 0.0 | wet | FILL | | plastic, medium dense, wet, no odor, no FILL MATERIAL, as ash, cinders with s and fine to coarse gravel, (7.5YR 3/1) v plastic, medium dense, wet, no odor, no | ome fine sand ery dark gray, non | 137-P3B-M31A-20.0-20 |
| | | | | | | | | |
| ommer | nts: 1) 3 atte | mpts we | re made to d | obtain best reco | very. | | | |



Boring ID: 137-P3B-M32A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610800.5 Date Started Drilling: 7/16/2013 1:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682628.3 Date Finished Drilling: 7/16/2013 2:55:00 PM Core Size: 3 in Boring Total Depth: 21 ft

| | By: JF | 0:4 | 407 140 | | P | | Depth to Water: NA | |
|---------------------------|---------------------|--------------|---------------------------------|----------|----------------|--|--|--|
| Physica | al Location | ı: Site | e 137 - M3 | 52A | | | Elevation: 13.5 ft N | IAVD88 te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickne | | Sample ID |
| | | 0.0 | | CONCRETE | | CONCRETE | | |
| -1- | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, (7.5YR 5/6) st loose, dry to slightly, moist, iron oxide st | | |
| -2 -3 | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, (7.5YR 5/6) st loose, dry to slightly moist, iron oxide sta | rong brown, aining | |
| , ¬ | | 0.0 | moist | FILL | | COPR, with fine sand and trace fine to c | | |
| -5 | 2 | 0.0 | to wet moist to wet | FILL | | (5YR 3/4) dark reddish brown, non plasti medium dense, moist to wet, no odor, irc COPR, with trace wood fibers, fine sand coarse gravel, (5YR 3/4) dark reddish br loose to medium dense, moist to wet, no | on oxide staining./ and some fine to own, non plastic, | |
| -6 <u>-</u> -7 | 2 | 0.0 | moist to wet | FILL | | staining. COPR, with fine sand and trace fine to c (5YR 3/4) dark reddish brown, non plasti medium dense, moist to wet, no odor, iro | coarse gravel, ic, loose to | |
| -8 -9 | 2 | 0.0 | moist to wet | FILL | | COPR, with fine sand and trace fine to c (5YR 3/4) dark reddish brown, non plasti medium dense, moist to wet, no odor, iro | ic, loose to | |
| -10 -11 -12 | 2 | 0.0 | moist to wet | FILL | | GGM, with silt and trace fine sand, (5GY non plastic, loose to medium dense, moi odor, green staining. | | |
| -13 14 | 2 | 0.0 | moist to wet | FILL | | GGM, with silt and trace fine sand, (5GY non plastic, loose to medium dense, moi odor, green staining. | | |
| | 2 | 0.0 | moist to wet | FILL | | GGM, with silt and trace fine sand, (5GY non plastic, loose to medium dense, moi odor, green staining. | | |
| -16 -17 | 2 | 0.0 | moist to wet | FILL | | GGM, with silt and trace fine sand, (5GY non plastic, loose to medium dense, moi odor, green staining. | | |
| 18 - | 2 | 0.0 | moist to | FILL | | GGM, with silt and trace fine sand, (5GY non plastic, loose to medium dense, moi | | |
| -19 - | - | 0.0 | wet wet | FILL | | odor, green staining. fine to coarse well-graded GRAVEL, with some cinders, (7.5YR 3/1) very dark gra | y, non plastic, | 137-P3B-M32A-19.0-19 |
| 20 - - 21 | 1 | 0.0 | wet | FILL | | medium dense, wet, no odor, no staining fine to coarse well-graded GRAVEL, with some cinders, (7.5YR 3/1) very dark gra medium dense, wet, no odor, no staining | g. n silt, ash and y, non plastic, | 137-P3B-M32A-20.0-20 |
| | | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 137-P3B-M33A

| Project Name: PPG Garfield Ave Project Number: 60240739 Date Started Drilling: 7/16/2013 10:50:00 AM Date Finished Drilling: 7/16/2013 11:50:00 AM Logged By: JF | | | | | I R | Orilling Company: SGS North America Orilling Method: Geoprobe Rig Type: Core Size: 3 in | Coordinates (NJSPNAD83) x: 610787.0 Coordinates (NJSPNAD83) y: 682601.5 Boring Total Depth: 21 ft | | |
|---|---------------------|--------------|---------------------|------------|----------------|---|---|-------------------------------|--|
| | | n: Site | e 137 - M33 | A | | roject Manager: Chris Martell | Depth to Water: NA Elevation: 13.1 ft N | AVD88 | |
| | | | | | | | (Note | e bgs = below ground surface) | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | kness: | Sample ID | |
| | | 0.0 | | FILL | | CONCRETE | | | |
| -1- | 2 | 0.0 | dry to moist | FILL | | fine to medium poorly graded SAND, obrown, non plastic, loose, dry to moist oxide staining. | | | |
| -3- | 1.8 | 0.0 | dry to moist | FILL | | fine to medium poorly graded SAND, brown, non plastic, loose, dry to moist oxide staining, iron staining at 3.3', ch 3.8'. | , no odor, íron | | |
| -4- -5- | 2 | 0.0 | dry to moist | NR FILL | | NO RECOVERY COPR, with some silt and trace fine g dark reddish brown, non plastic, loose odor, iron oxide staining. | | | |
| -6 -7 | 2 | 0.0 | dry to moist | FILL | | COPR, with some silt and trace fine g dark reddish brown, non plastic, loose odor, iron oxide staining. | | | |
| -9- | 1.5 | 0.0 | wet | FILL | | COPR, with well rounded, poorly grad- (5YR 3/4) dark reddish brown, non pla saturated, no odor, iron oxide staining | stic, loose, wet to | | |
| -10 | | | | NR | | NO RECOVERY | | | |
| | 2 | 0.0 | moist to wet | FILL | | GGM, (5GY 4/4) olive green, non plas wet, no odor, green staining. | tic, soft, moist to | | |
| -12 - -13 - | 2 | 0.0 | moist to wet | FILL | | GGM, (5GY 4/4) olive green, non plas wet, no odor, green staining. | tic, soft, moist to | | |
| -14 15 | 2 | 0.0 | moist to wet | FILL | | GGM, (5GY 4/4) olive green, non plas wet, no odor, green staining. | tic, soft, moist to | | |
| -16 -17 | 2 | 0.0 | moist to wet | FILL | | GGM, (5GY 4/4) olive green, non plas wet, no odor, green staining. | tic, soft, moist to | | |
| -18 - - -19 - | 2 | 0.0 | moist to wet | FILL | | GGM, (5GY 4/4) olive green, non plas wet, no odor, green staining. | tic, soft, moist to | | |
| | | 0.0 | wet | FILL | | fine to medium poorly graded SAND, | with fill material, | 137-P3B-M33A-19.5-20 | |
| _20 | 1 | 0.0 | wet | FILL | | medium to coarse gravel and ash, (5Y brown, non plastic, loose, wet, no odo FILL MATERIAL, as ash and cinders to coarse gravel and trace ceramics, (7.9 gray, non plastic, medium dense, wet, staining. | r, no staining. with some fine to SYR 3/1) very dark | 137-P3B-M33A-20.0-20 | |
| | | | | | | | | | |



Boring ID: 137-P3B-M34A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610773.4 Date Started Drilling: 7/16/2013 8:53:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682574.7

Date Finished Drilling: 7/16/2013 10:33:00 AM Core Size: 3 in Boring Total Depth: 21 ft Project Manager: Chris Martell Depth to Water: NA

| | IBy: JF | | | | | Project Manager: Chris Martell | Depth to Water: N/ | |
|------------------------|---------------------|--------------|---------------------|------------------|----------------|--|------------------------|---|
| hysica | al Location | 1: Site | e 137 - M3 | 4A | | | Elevation: 12.8 ft i | VAVD88 ote bgs = below ground surface) |
| epth ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thi | | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | | |
| -1 | 2 | 0.0 | moist | FILL | | fine to medium well-graded SAND, ('brown, non plastic, loose, moist, no staining. | | |
| -2— - -3— | 1.5 | 0.0 | | FILL | | fine to medium well-graded SAND, to 5/6) strong brown. | race COPR, (7.5YR | |
| . 7 | | | | NR | | NO RECOVERY | | |
| -5- | 1 | 0.0 | dry to moist | FILL | | COPR, with fine to medium sand, (5 brown (7.5YR 2.5/2) very dark brown dry to moist, no odor, iron oxide stair | n, non plastic, loose, | |
| | | | | NR | | concentrated at 4.5'. NO RECOVERY | , . | |
| -6 | 1 | 0.0 | dry to moist | FILL | | COPR, with fine to medium sand, (5' brown (7.5YR 2.5/2) very dark brown dry to moist, no odor, iron oxide stair | n, non plastic, loose, | |
| , | | | 1110101 | NR | | NO RECOVERY | ming. | |
| -8— -9— | 1.5 | 0.0 | dry to moist | FILL | | COPR, with fine to medium sand, (5' brown (7.5YR 2.5/2) very dark brown dry to moist, no odor, iron oxide stair | n, non plastic, loose, | |
| 7 | | | | NR | ~~~~ | NO RECOVERY | | 1 |
| -10 - -11 | 1.7 | 0.0 | dry to moist | FILL | | COPR, with fine to medium sand and gravel, (5YR 3/4) dark reddish brown dark brown, non plastic, loose, dry to oxide staining. | n (7.5YR 2.5/2) very | |
| 12 | | 0.0 | | NR | | NO RECOVERY | | |
| - -13 | 2 | 0.0 | dry to moist | FILL | | COPR, with fine to medium sand and gravel, (5YR 3/4) dark reddish browr dark brown, non plastic, loose, dry to oxide staining. | n (7.5YR 2.5/2) very | |
| 14 | | 0.0 | dry | FILL | | COPR, with fine to medium sand and | | 1 |
| -15 | 2 | | to moist | | | gravel, (5YR 3/4) dark reddish browr dark brown, non plastic, loose, dry to oxide staining. | | |
| -16 | | 0.0 | dry | FILL | | GGM, (5GY 5/2) grayish green, non | plastic, soft to | 1 |
| -17 | 2 | 0.0 | to wet dry | FILL | | \medium stiff, dry to wet, no odor, gree GGM, (5GY 5/2) grayish green, non medium stiff, dry to wet, no odor, gree | plastic, soft to | |
| ,, | | | to wet | | | | | |
| -18 | | 0.0 | moist | FILL | | GGM, with trace sand, (5GY 4/4) oliv | | 1 |
| -19 | 2 | | to wet | | \bowtie | soft to medium stiff, moist to wet, no staining. | odor, green | |
| - | _ | 0.0 | wet | FILL | | SILT, with some fine to coarse grave 2.5/2) very dark brown, non plastic, r | | 137-P3B-M34A-19.1-19 |
| 20 | 1 | 0.0 | wet | FILL | | no odor. SILT, with some ceramics and fine to material, (7.5YR 2.5/2) very dark bro | | 137-P3B-M34A-20.0-20 |
| -21 | | | | | | medium dense, wet, no odor. | | |
| | 1 1) = 1 | | | obtain best reco | | | | |



Boring ID: 137-P3B-M36A

Page: 1

| Project Date S | t Number: tarted Dril | 60240 l ing: 7 | 7/2/2013 10 | 0:15:00 AM | | Drilling Company: SGS North America Drilling Method: Geoprobe Rig Type: | Coordinates (NJSPI | Page NAD83) x: 610746.4 NAD83) y: 682521.1 |
|---------------------------|--------------------------|--------------------------|-----------------------------|------------------|---------------|--|--------------------------------|--|
| Date Fi | inished Dr | illing: | 7/2/2013 | 11:45:00 AM | | Core Size: 3 in | Boring Total Depth: | 19 ft |
| Logge | d By: EW | 1 | | | | Project Manager: Chris Martell | Depth to Water: NA | . |
| Physic | al Locatio | n: Site | e 137 - M3 | 6A | | | Elevation: 12.2 ft N | IAVD88 |
| | | | | | I | 1 | (Not | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | _ | |
| -1 -1 | 1.8 | 0.0 | moist to wet moist | FILL | | fine to medium SAND, some silt and fi gravel, (10YR 5/2) grayish brown, non moist to wet, no odor, no staining. fine to medium SAND, with silt and fine | plastic, loose, | |
| -2 | | 0.0 | moist | NR FILL | | gravel, (10YR 3/2) very dark grayish bi | rown, non plastic, | |
| -3 | 1.8 | 0.0 | to wet | | | NO RECOVERY | no to modium | |
| _ | | 0.0 | moist | FILL | | fine to medium SAND, some silt and fi gravel, (10YR 5/2) grayish brown, non | | |
| -4 | | 0.0 | moist | NR | | moist to wet, no odor, no staining. SILT, some sand and brick, (7.5YR 3/2 | 2) dark brown pap | 1 |
| _ | 1 | | to | FILL | \bowtie | plastic, soft, moist, no odor, no staining | g trace white | |
| -5 | 1.7 | 0.0 | wet | FILL | \bowtie | leachate material encountered at 3.3'- | | |
| _ | | | moist | | \bowtie | NO RECOVERY | // | |
| -6 | | | to wet | NR | | COPR, trace fine sand, (5YR 3/2) dark | | |
| _ | | 34.6 | moist | FILL | \bowtie | non plastic, loose, moist to wet, no odd COPR, trace fine sand, (7.5YR 2.5/2) | | |
| _7_ | 1.3 | | to | | \bowtie | non plastic, loose, moist to wet, no odd | | |
| | | | wet | NR | | NO RECOVERY COPR, trace fine sand, (7.5YR 2.5/2) | | |
| -8 | | 48.2 | moist | | | $\setminus \setminus \setminus$ non plastic, loose, moist to wet, no odd | | |
| _ | 1 | .5 | to | NR | XXXXX | \\petroleum-like odor. \\NO RECOVERY | / _/ _ | |
| -9 | 0.5 | | wet | INIX | | COPR, trace fine sand, (7.5YR 2.5/2) | very dark brown, | |
| _ | 1 | | | | | non plastic, loose, moist to wet, no odd | | |
| -10 | | | | | | petroleum-like odor. | | |
| | | 3.2 | moist | FILL | \bowtie | NO RECOVERY | ents (7.5VD | |
| _ _11 | 1.6 | | to wet | | | SILT, trace fine sand, little wood fragm 2.5/1) black, non plastic, soft, moist to staining, slight sheen and petroleum-lit | wet, no odor, no | |
| -12 | | 0.0 | | NR | | NO RECOVERY | | |
| - |] | 0.0 | moist | FILL | \bowtie | fine to medium SAND, trace silt and fin | | |
| -13 - | 1.5 | | to wet | | | 2.5/1) black, non plastic, soft, moist to | wet, no odor. | 137-P3B-M36A-12.5-1 |
| -14 | | | | NR | | NO RECOVERY | | |
| _ | | 0.0 | moist to | FILL | | fine to medium SAND, trace silt and fir 2.5/1) black, non plastic, soft, moist to | ne gravel, (5Y wet, no odor | 137-P3B-M36A-14.5-1 |
| -15 | 2 | 0.0 | wet | . | | · · · · · · · · · · · · · · · · · · · | | 131-F3D-W30A-14.5-1 |
| _ | 1 | 0.0 | moist | FILL | | SILT, with fine sand, little roots, (7.5YF brown, non plastic, soft, moist, no odo | | |
| -16 | | 0.0 | moist | FILL | | | , ngnt sneen on | |
| _ | | 0.0 | moist | FILL FILL | | fine SAND, with silt and roots, (7.5YR | 4/2) brown, non //- | 40= D6= :::::::::::::::::::::::::::::::::: |
| -17 | 2 | 0.0 | moist | FILL | \bowtie | \\plastic, soft, moist, no odor. \fine SAND, with silt and roots, (7.5YR | 4/2) brown non | 137-P3B-M36A-16.5-1 |
| | | 0.0 | moist | OL | XXXXX | \nlastic soft moist no odor | 4/2) DIOWII, HON | 137-P3B-M36A-17.0-1 |
| _10 | | 2.1 | moist | PT | 71 71 | SILT, trace fine sand and roots, (7.5YF | | 137-P3B-M36A-17.5-1 |
| –18 | 1 | 2.2 | moist | PT | 711/11/ | \\non plastic, soft, moist, very slight orga | anic odor. // | |
| - | 1 ' | | | | 1/ 1/1/ | UNDorg, 80% organic silt, 20% organic 3/2) dark brown, non plastic, soft, mois | C TIDERS, (7.5YR | |
| –19 – | | | | | | odor. Soils consistent with UNDorg. | st, slight organic // | |
| | | | | | | PEAT (degraded vegetated material), | | |
| | | | | | | 20% organic silt, (7.5YR 3/2) dark brow | | |
| | | | | | | stiff, moist, moderate organic odor. So | iis consistent with | |
| | | | | | | PEAT (degraded vegetated material), | 80% organic fibers, | |
| | | | | | | 20% organic silt, (7.5YR 3/2) dark brow | wn, non plastic, | |
| | | | | | | stiff, moist, moderate organic odor. So | ils consistent with | |
| | | | | | | MM. | | |
| | | | | | | | | |
| | | | | | | | | |
| omme | nte: 1) 2 o#- | mote wa | are made to | ohtain hast ross | VOD. (2) N | 1M/UND confirmed to be 1 ft thick. | | |
| omme | . . 1) 3 alle | anpis we | ine made to (| optani Dest 1600 | very Z) I | IIVII OI AD COMMITTIEG TO DE TIT THICK. | | |



Boring ID: 137-P3B-N32A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610827.3 **Date Started Drilling:** 7/17/2013 10:40:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682614.8 Date Finished Drilling: 7/17/2013 1:35:00 PM Core Size: 3 in Boring Total Depth: 21 ft Depth to Water: NA Logged By: JF Project Manager: Chris Martell

| | IBy: JF | 0:4 | - 407 NO | 24 | ļ. | roject Manager: Chris Martell | Depth to Water: NA | |
|---------------------------|---------------------|--------------|---------------------|------------------|----------------|---|---|--|
| nysica | al Location | 1: 5116 | e 137 - N3 | <u> </u> | | | Elevation: 13.2 ft N | VAVD88 te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thi | | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P 4 | CONCRETE | | |
| -1 | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, (7.5YR 4/k plastic, loose, dry to slightly moist, n staining. | | |
| -2 | 2 | 0.0 | dry | FILL | | fine poorly graded SAND, (7.5YR 4/6 plastic, loose, dry to slightly moist, n | | |
| -3 | 2 | 0.0 | moist | FILL | | staining. COPR, with silt and some fine to coasand, (5YR 3/4) dark reddish brown, | arse gravel and trace non plastic, loose, | |
| -4 - -5 | 2 | 0.0 | moist | FILL | | moist, no odor, iron oxide staining. COPR, with silt and some fine to coasand, (5YR 3/4) dark reddish brown, moist, no odor, iron oxide staining. | | |
| -6- | | 0.0 | moist | FILL | | crushed COPR, with silt and some a | ind trace sand (5YR | |
| -7 - | 2 | | moist | 1122 | | 3/4) dark reddish brown, non plastic, odor, iron oxide staining. | | |
| -8- | | 0.0 | moist | FILL | | crushed COPR, with silt and some fi and trace sand, GGM, (5YR 3/4) dar | | |
| -9 | 0.8 | | | NR | | plastic, loose, moist, no odor, iron ox NO RECOVERY | | |
| -10 | | 0.0 | wet | FILL | | GGM, with silt and trace fine gravel, | (5GY 4/4) olive | _ |
| | 1.1 | 0.0 | wet | FILL | | green, non plastic, loose, wet, no od FILL MATERIAL, as cinders, ash, fir | or, green staining. | 137-P3B-N32A-10.6-11 |
| -11 - -12 | | 0.0 | wet | NR FILL | | coarse gravel, (7.5YR 3/1) very dark loose to medium dense, wet, no odo NO RECOVERY FILL MATERIAL, as cinders, ash, fir | gray, non plastic, or, no staining. | 137-P3B-N32A-12.0-12 |
| -13 - | 1.7 | | | | | coarse gravel, (7.5YR 3/1) very dark loose to medium dense, wet, no odo | | |
| -14 | | 0.0 | wet | NR FILL | | NO RECOVERY FILL MATERIAL, as silt with some fi | ne to medium gravel | 137-P3B-N32A-14.0-14 |
| -15 -16 | 2 | | | 1122 | | and some fine sand, (7.5YR 5/1) gra medium dense, wet to saturated, no | ıy, non plastic, | |
| _ -17 - | 2 | 0.0 | wet | FILL | | FILL MATERIAL, as silt with some fi and some fine sand, (7.5YR 5/1) gra medium dense, wet to saturated, no | ıy, non plastic, | 137-P3B-N32A-16.0-16 |
| -18 -19 - | 2 | 0.0 | wet | FILL | | FILL MATERIAL, as silt with some fi and some fine sand, (7.5YR 5/1) gra medium dense, wet to saturated, no | ıy, non plastic, | 137-P3B-N32A-18.0-18 |
| 20 — — 21 — | 1 | 0.0 | wet | FILL | | FILL MATERIAL, as silt with some fi and some fine sand, (7.5YR 5/1) gra medium dense, wet to saturated, no | ıy, non plastic, | 137-P3B-N32A-20.0-20 |
| | | | | | | | | |
| ommer | nts: 1) 3 atte | mnts we | ere made to | obtain best reco | verv | | | |



Boring ID: 137-P3B-N36A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610773.2
Date Started Drilling: 12/19/2013 8:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682507.7
Date Finished Drilling: 12/19/2013 9:30:00 AM Core Size: 3 in Boring Total Depth: 22 ft
Logged By: R. Kantor Project Manager: Chris Martell Depth to Water:

| | I By: R. K al Location | | 137 - N36 | 6A | | | | Elevation: 11.6 ft NA | /D88 |
|---------------------------------|---------------------------|--------------|---------------------|--------------|---------|---------------------------------------|--|---|----------------------------|
| yo.o. | | ii Oito | 107 1100 | ,,, | | | | | gs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and ⁻ | Thickness: | Sample ID |
| | | 0.0 | | 1 C | ONCRE | re ₄ ¼ 4 7 | CONCRETE | | |
| | | 0.0 | moist | 3 | FILL | | fine to medium silty SAND, some | gravel, (2.5YR 4/2) | - |
| - 1.0 | 1 | 0.0 | moist | 4B | FILL | | weak red, non plastic, loose, mois | st, no odor, no staining. | - |
| _ | | 21.2 | moist | 4B | FILL | | COPR, some fine to medium san (5YR 4/3) reddish brown, non pla | d, some fill material, | _ |
| 2.0 | 5 | | | | | | odor, no staining. fine to medium SAND, some COI | | |
| 3.0 | | | | | | | (10YR 2/2) very dark brown, non | plastic, loose, moist, — | |
| | | 137 | moist | 4A | FILL | | moderate petroleum odor, no stai | ning. | |
| 4.0- | _ | | to wet | | | | COPR, little sand, little gravel, (5' brown, non plastic, medium dens | YR 2.5/2) dark reddish e moist to wet strong | |
| | | | | | | | petroleum odor, no staining. | e, molet to wet, strong | |
| 5.0 | | | | | | | | | _ |
| _ | | 147 | wet | 4B | FILL | | fine to medium SAND, some COI 2.5/1) black, non plastic, loose, w | | |
| 6.0 | - | | | | | | odor, sheen. | et, strong petroleum | |
| | | 100 | wet | 4B | FILL | | GGM, some COPR, some cinder | s, (5YR 2.5/1) black, | _ |
| - 7.0 | 5 | | | | | | non plastic, loose, wet, strong per | troleum odor, sheen. | |
| _ | | | | | | | | | |
| 8.0 | | 33.4 | moist | 5 | FILL | | GGM, some cinders, little sand a | nd gravel, (5GY 5/4) | |
| | | | to wet | | | | light olive green, non plastic, med wet, slight petroleum odor. | lium dense, moist to | |
| 9.0 | | | wet | | | | wet, slight petroleum odor. | | |
| 10.0 | | | | | | | | | |
| 10.0 | | 45.7 | wet | 3 | FILL | | CINDERS, little sand, little gravel | | 137-P3B-N36A-10.0-1 |
| | | | | | | | grayish brown, non plastic, dense odor, no staining, little fill materia | e, wet, slight petroleum | |
| 11.0 | | | | | | | ceramic, wood. | i, giass, metai, | |
| 12.0 | | | | | | | | | |
| 12.0 | 5 | | | | | | | | 137-P3B-N36A-12.0- |
| 1 3. 0 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 1 4. 0 | | | | | | | | | |
| | | 0.0 | moist | 3 | FILL | | fine silty SAND, little fine cinders, | (10YR 2/2) very dark | 137-P3B-N36A-14.0-1 |
| -1 5. 0 – | | | to wet | | | | brown, low plasticity, soft, moist to slight burnt odor. | o wet, no staining, | _ |
| _ | | 0.0 | moist | 3 | FILL | | fine to medium silty SAND, some | | |
| 16.0 | | | to wet | | | | very dark brown, non plastic, loos moist to wet. | se to medium dense, | 407 DOD NOOA 40 0 |
| _ | | | | | | | | | 137-P3B-N36A-16.0-1 |
| 1 7. 0 — | | | | | | | | | |
| _ | . 5 | | | | | | | | |
| 1 8. 0 – | | | | | | | | | 137-P3B-N36A-18.0-1 |
| _ | - | | | | | | | | 107-1 3D-N30A-10.0- |
| 19.0 | | | | | | | | | |
| _ | 1 | | | | | | | | |
| 20.0 | | 0.0 | wet | 3 | FILL | | fine to medium silty SAND, little of | ravel little cinders | 137-P3B-N36A-20.0-2 |
| _ | 1 1 | 0.0 | ****** | | | | (10YR 3/3) dark brown, non plast | | 15. 152 1100/120.02 |
| 21.0 | . 2 | 0.0 | moist | 3 | FILL | | no odor, no staining. | _ | - |
| _ | 1 | 3.3 | to | | | | fine silty SAND, little organic silt, very dark grayish brown, low plas | ticity, soft, moist to | |
| 2 2.0 | | | wet | \leftarrow | | · · · · · · · · · · · · · · · · · · · | wet, no odor, no staining, slight b | urnt odor. | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | 44\0-4 | nnto | o mada ta - | htoin h | ot roce | V 2) NANA/I IN | D confirmed to be 1 ft thick. | | |



PPG LOGS.GDT - 8/8/13 09:12

Road, Piscataway, NJ 08854

Boring ID: 137-P3B-O32A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610854.0 Date Started Drilling: 7/17/2013 1:54:00 PM Coordinates (NJSPNAD83) y: 682601.3 Rig Type: Date Finished Drilling: 7/17/2013 3:11:00 PM Core Size: 3 in Boring Total Depth: 21 ft Depth to Water: NA Logged By: JF Project Manager: Chris Martell Elevation: 13.2 ft NAVD88 Physical Location: Site 136 - O32A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) CONCRETE 3 3 4 5 0.0 CONCRETE 2 0.0 **FILL** fine poorly graded SAND, (7.5YR 4/6) strong brown, non dry plastic, loose, dry to slightly moist, no odor, iron oxide . stainina. 0.0 FILL fine poorly graded SAND, (7.5YR 4/6) strong brown, non dry plastic, loose, dry to slightly moist, no odor, iron oxide 2 staining. 0.0 FILL fine poorly graded SAND, with fill materials including dry brick and glass fragments, sub-angular fine to medium 0.0 moist FILL sized gravel, (7.5YR 5/6) strong brown, medium 0.0 **FILL** moist plasticity, loose to medium dense, dry to moist, no odor, 2 iron oxide staining GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, medium dense, moist, no odor, green 0.0 **FILL** moist staining. crushed poorly graded COPR, with sand, (5YR 3/4) dark 2 reddish brown, non plastic, medium dense, moist, no odor, iron oxide staining crushed poorly graded COPR, with sand, (5YR 3/4) dark reddish brown, non plastic, medium dense, moist, no 0.0 moist FILL odor, iron oxide staining. crushed poorly graded COPR, with sand, (5YR 3/4) dark 2 0.0 moist **FILL** reddish brown, non plastic, medium dense, moist, no odor, iron oxide staining. GGM, with some fine sand and fine to coarse gravel with 0.0 moist FILL traces of ash and cinders, (5GY 6/2) light grayish green, 137-P3B-O32A-10.4-10.9 0.0 **FILL** wet non plastic, loose to medium dense, moist to wet, no 2 odor, green staining, heavy chromium staining at 9.7'. GGM, with sand and trace fine gravels, (5GY 4/4) olive 137-P3B-O32A-10.4-10.9X green, non plastic, loose to medium dense, moist, no odor, green staining. well-graded GRAVEL, as fine to medium gravel with 137-P3B-O32A-12.0-12.5 0.0 **FILL** wet sand and silt with some ash and cinders and trace glass 2 -13 fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining. well-graded GRAVEL, with fine to medium gravel with 0.0 137-P3B-O32A-14.0-14.5 FILL wet sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium 2 dense, wet, no odor, no staining.
well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass -16 fragments, (7.5YR 4/1) dark gray, non plastic, medium 137-P3B-O32A-16.0-16.5 0.0 FILL wet dense, wet, no odor, no staining.
well-graded GRAVEL, with fine to medium gravel with 2 sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.
well-graded GRAVEL, with fine to medium gravel with 18 0.0 137-P3B-O32A-18.0-18.5 FILL wet sand and some silt, ash and cinders and trace glass 2 19 fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining. 0.0 FILL well-graded GRAVEL, with fine to medium gravel with 137-P3B-O32A-20.0-20.5 wet 1 sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium 21 dense, wet, no odor, no staining Comments: 1) 3 attempts were made to obtain best recovery.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 137-P3B-O35A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610813.5
Date Started Drilling: 7/8/2013 10:22:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682520.9
Date Finished Drilling: 7/8/2013 1:20:00 PM Core Size: 3 in Boring Total Depth: 22 ft
Logged By: EW Project Manager: Chris Martell Depth to Water: NA

| Logged | d By: EW | | | | P | roject Manager: Chris Martell | Depth to Water: NA | |
|---------------------------|---------------------|--------------|---------------------|--------------|----------------|---|----------------------|---|
| Physic | al Location | n: Site | e 137 - O3 | 5A | | | Elevation: 12.1 ft l | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | | te bgs = below ground surface) Sample ID |
| | | 0.0 | slightly | ASPHALT | | ASPHALT, some fine to medium sand, | some gravel, little | |
| | 2 | 0.0 | moist | FILL | | silt, (10YR 2/1) black, non plastic, medi | um dense, slightly / | |
| -1 | - | 0.0 | slightly moist | FILL | | \moist. ─\ COPR, (7.5YR 4/6) strong brown, non p | plastic medium | |
| _ | | 0.0 | slightly | FILL | \bowtie | \\dense, slightly moist. | // | |
| -2- | | 0.0 | moist | FILL | | GGM, (10YR 4/6) dark yellowish brown | , non plastic, | |
| _ | | | slightly moist | | \bowtie | medium dense, slightly moist. GGM, (5GY 6/4) pale yellowish green, r | non plastic | |
| -3 | 2 | | slightly | | | medium dense, slightly moist. | . / | |
| _ | | | moist | | | GGM, (5GY 6/4) pale yellowish green, r | non plastic, | |
| -4 <i>-</i> - | | 0.0 | moist moist | FILL FILL | | medium dense, slightly moist. CINDERS, little ash, little salt precipitate | e (10YR 2/1) | |
| _ | | 0.0 | moist | FILL | \bowtie | \black, non plastic, medium dense, mois | st. // | |
| -5 | 2 | | | | | _ \CINDERS, little ash, (10YR 2/1) black, □ | non plastic, | |
| - | | 0.0 | moist | FILL | | \medium dense, moist. GGM, some cinders, little salt precipitat | (7 5VP 5/4) | |
| -6 | | 0.0 | moist | FILL | | \brown, non plastic, dense, moist. | · / / | 137-P3B-O35A-6.0-6. |
| _ | | 0.0 | to | FILL | \bowtie | \ CINDERS, some ash, little GGM, little s | salt precipitate, | 107-1 0B-000/4-0.0-0.0 |
| -7 | 1.7 | | wet | | \bowtie | (10Y 4/2) dark grayish olive, non plastic green staining. | c, dense, moist, | |
| _ | | | | | | ASH, some cinders, (10YR 4/1) dark gr | av. non plastic. | |
| -8- | | 0.0 | | NR | | _\loose, moist to wet. | | 137-P3B-O35A-8.0-8. |
| _ | | 0.0 | moist to | FILL | | NO RECOVERY ASH, some cinders, little coal, (10YR 4) | /1) dark gray, pap | 137-P3B-U33A-0.0-0.3 |
| _9 <i>_</i> _ | 2 | | wet | | \bowtie | plastic, medium dense, moist to wet. | (1) dark gray, flori | |
| _ | | | | | \bowtie | , | | |
| -10 | | 0.0 | | | | | | 407 DOD OOFA 40 0 40 |
| | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, little wood, (10YR annon plastic, loose, wet. | 4/1) dark gray, | 137-P3B-O35A-10.0-10 |
| -11 | 2 | | | | | non plastic, loose, wet. | | |
| | | | | | | | | |
| - 12 | | | | | | | | |
| | | 0.0 | moist to | FILL | \bowtie | ASH, some cinders, little wood, (10YR on plastic, medium dense, moist to we | | 137-P3B-O35A-12.0-12 |
| - 13 | 2 | | wet | | | non plastic, medium dense, moist to we | τι. | |
| _ | | | | | \bowtie | | | |
| -14 | | | | | | | | 107 DOD 0054 110 11 |
| _ | | 0.0 | moist to | FILL | \bowtie | ASH, some cinders, (10YR 3/1) very da plastic, medium dense, moist to wet. | ark gray, non | 137-P3B-O35A-14.0-14 |
| -15 | 2 | | wet | | | plastic, medium dense, moist to wet. | | |
| _ | | | | | \bowtie | | | |
| -16 | | | | | | | | |
| | | 0.0 | moist to | FILL | \bowtie | ASH, some cinders, little coal, (10YR 4, plastic, medium dense, moist to wet, sli | | 137-P3B-O35A-16.0-16 |
| -17 | 2 | | wet | | \bowtie | piastic, medium dense, moist to wet, sil | grit suilul OuOl. | |
| | | | | | | | | |
| -18 | | | | | | | | 407 DCD CC5: 12.1 |
| _ | | 0.0 | moist to | FILL | | ASH, some cinders, some fine to coars 4/1) dark gray, non plastic, dense, mois | | 137-P3B-O35A-18.0-18 |
| -19 | 2 | | wet | | \bowtie | Tri y dark gray, non plastic, dense, mois | ot to WCt. | |
| | | | | | | | | |
| -20 | | | | | | | | 10 BC 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| | | 0.0 | moist | FILL | \bowtie | ASH, some cinders, some gravel, some | | 137-P3B-O35A-20.0-20 |
| -21 | 2 | | to wet | | | sand, (10YR 3/2) very dark grayish brow dense, moist to wet. | wn, non piastic, | |
| - ' - | | 0.0 | moist | FILL | | fine silty SAND, little coal, little roots, (1 | | _ |
| -22 | | 0.0 | moist | ML PT | 11, 11, | dark brown, low plasticity, medium dens | | |
| ~~ | | 0.0 | moist | | 1 | SILT, some organics, some roots, (10Y) grayish brown, low plasticity, medium s | | |
| | | | | | | \sulfur odor. Soils consistent with UNDn | o. // | |
| | | | | | | PEAT (degraded vegetated material), 8 20% organic silt, (10YR 3/3) dark browr | | |
| | 1 | | | | 1 | 20 /0 Organic Sill, (10 tk 3/3) dark brown | i, non piastic, | |



Boring ID: 137-P3B-O35A

| Project Date St Date Fi | nished Dr | 60240 ling: 7 illing: | 0739 7/8/2013 10 | 0:22:00 AM 1:20:00 PM | Dri Rig Cor | Iling Company Iling Method: y Type: re Size: 3 in | Geoprobe | Coordinates (N Coordinates (N Boring Total D | | |
|-------------------------------|---------------------|-----------------------------|---------------------|--------------------------|-------------------|--|-------------------|--|-------------------|-----------------|
| ogged | By: EW | n. 0!! | 107 00 | ΕΛ | Pro | ject Manager: | Chris Martell | Depth to Water | | |
| nysic | ai Locatio | n: Site | e 137 - O3 | DA . | T | | | | (Note bgs = below | ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover ar | nd Thickness: | | Sample ID |
| | | | | | | loose, moist MM. | moderate sultur o | odor. Soils consistent with | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



Boring ID: 137-P3B-O36A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610800.0
Date Started Drilling: 12/19/2013 10:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682494.2
Date Finished Drilling: 12/19/2013 10:18:00 AM Core Size: 3 in Boring Total Depth: 21 ft
Logged By: R. Kantor Project Manager: Chris Martell Depth to Water:
Physical Location: Site 137 - O36A
Elevation: 11.8 ft NAVD88

| Physica | I Location | : Site | 137 - O36 | SA | | | Elevation: 11.8 ft NA | VD88 pgs = below ground surface) |
|---------------------------------|---------------------|--------------|---------------------|-------------|--------|----------------|--|-------------------------------------|
| . | | | | | | | LAME) | ogs – peloti ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | 1 C | ONCRET | E A P | CONCRETE | |
| _ | | 0.0 | dry | 4A | FILL | | COPR, little gravel, (5YR 4/4) reddish brown, non | |
| 1.0 | | | ۵., | '' | | | plastic, loose, dry, no odor, no staining. | |
| | | | | | | | , , , | |
| 2.0 | | | | | | | | |
| | 5 | | | | | | | |
| | | | | | | \bowtie | | |
| 3.0 | | | | | | \otimes | | |
| | | 0.0 | moist | 5 | FILL | | GGM, (5GY 5/4) light olive green, non plastic, dense, | |
| 4.0 | | | to | | | | moist to wet, no odor, green staining. | |
| - – | | | wet | | | \bowtie | | |
| 5.0 | | | | | | | | |
| 5.0 | | 0.0 | moist | 5 | FILL | | GGM, some fine to medium sand, (2.5Y 4/2) dark | |
| | | | to | | | | grayish brown, non plastic loose, moist to wet. | |
| 6.0 | | | wet | | | | | |
| _ | | | | | | | | |
| 7.0 | | 68.5 | wet | 3 | FILL | | CINDERS, little silt, little oil-like material, (10YR 4/1) | 137-P3B-O36A-6.8-7 |
| | 5 | | | | | | _ dark gray, non plastic, medium dense, wet, moderate | |
| 8.0 | | 65.9 | wet | 3 | FILL | | petroleum odor, sheen. | |
| 0.0 | | | | | | | CINDERS, little gravel, trace paper pulp, non plastic, | |
| | | | | | | | medium dense, wet, no odor, no staining. | |
| 9.0 | | | | | | | | 137-P3B-O36A-8.8-9 |
| | | | | | | | | |
| 10.0 | | | | _ | | | | _ |
| | | 0.0 | wet | 3 | FILL | | CINDERS, some gravel, some fill material, (10YR 5/1) | |
| 44.0 | | | | | | | gray, non plastic, dense, wet, no odor, no staining. | 427 D2D O2CA 40 0 4 |
| 1 1. 0 | | | | | | | | 137-P3B-O36A-10.8-1 |
| | | | | | | | | |
| 12.0 | | | | | | \bowtie | | |
| | 5 | | | | | | | |
| 13.0 | | | | | | | | 137-P3B-O36A-12.8-13 |
| 10.0 | | | | | | | | 107 1 02 0007 12:0 1 |
| | | | | | | | | |
| 14.0 | | | | | | | | |
| | | | | | | \bowtie | | |
| 15.0 | | 0.0 | | | | \bowtie | 0N/DED0 (40VD 544) | 137-P3B-O36A-14.8-1 |
| | | 0.0 | wet | 3 | FILL | | CINDERS, (10YR 5/1) gray, non plastic, medium dense, wet, no odor, no staining. | |
| 16.0 | | | | | | | wet, no odor, no staining. | |
| 10.0 | | | | | | | | |
| _ | | | | | | | | |
| -1 7. 0 - | _ | | | | | | | 137-P3B-O36A-16.8-1 |
| | 5 | | | | | | | |
| 18.0 | | | | | | | | |
| | | | | | | | | |
| -1 9. 0 | | | | | | | | 137-P3B-O36A-18.8-1 |
| тэ.О | ĺ | 0.0 | moist | 3 | FILL | | fine silty SAND, little cinders, little roots, (10YR 2/2) very | 101-F3D-U30A-10.8-1 |
| | | | | | | | dark brown, low plasticity, soft, moist, no staining, slight | |
| 20.0 | | 0.0 | moist | 3 | FILL | | burnt odor. | 137-P3B-O36A-20.0-2 |
| | 1 | 0.0 | moist | 3 | 1 ILL | | PEAT (degraded vegetated material), 80% organic | 107 1 05 000/1-20.0-2 |
| 21.0 | | | | | | | fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, medium stiff, moist, moderate organic odor, no staining. | |
| | | | | | | | mediam still, moist, moderate organic odor, no stalling. | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | l | | | | | | | |



Boring ID: 137-P3B-P36A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610826.8 Date Started Drilling: 7/8/2013 8:49:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682480.7 Date Finished Drilling: 7/8/2013 10:20:00 AM Core Size: 3 in Boring Total Depth: 20.5 ft Depth to Water: NA Logged By: Project Manager: Chris Martell Physical Location: Site 137 - P36A Elevation: 12.4 ft NAVD88

| | | | | | | • | e bgs = below ground surface) |
|---------------------------|---------------------|--------------|---------------------|---------|---------------------------|--|-------------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT, (10YR 3/1) very dark gray, non plastic, | |
| . – | 0.6 | 0.0 | dry | FILL | XXXXX | dense, dry. | |
| -1 | 0.0 | | | NR | | COPR, some fine to medium sand, some gravel, (7.5YR 4/3) brown, non plastic, loose, dry. NO RECOVERY | |
| -2- | | 0.0 | slightly | FILL | | COPR, little gravel, (7.5YR 4/3) brown, non plastic, | |
| - | _ | 0.0 | moist | FILL | $\otimes \otimes \otimes$ | medium dense, slightly moist. | |
| -3 | 2 | | moist | | \bowtie | GGM, (5Y 6/2) light olive gray, non plastic, loose, moist | |
| | | | to wet | | | to wet. | |
| -4- | | 0.0 | moist | FILL | \bowtie | GGM, (7.5YR 6/2) pinkish gray, non plastic, loose, moist | |
| -5- | 2 | | to wet | | | to wet. | |
| -6- | | 0.0 | moist | FILL | | GGM, (5Y 5/2) olive gray, non plastic, loose, moist to | |
| \dashv | | 0.0 | to | FILL | | wet. | |
| -7— | 2 | 0.0 | wet | | | ASH, some cinders some GGM, (5Y 5/2) olive gray (10Y | 137-P3B-P36A-7.0-7. |
| 4 | | 0.0 | moist | FILL | \bowtie | 5/2) grayish olive, non plastic, medium dense, moist. | 131-F3D-F30A-1.0-1. |
| -8- | | | moist | | | ASH, some cinders little coal, (10YR 4/1) dark gray, non plastic, medium dense, moist, strong petroleum odor. | |
| | | 0.0 | moist | FILL | | ASH, some cinders, little wood fragments, little glass, | |
| -9- | 1.5 | | | | | (10YR 4/1) dark gray, non plastic, medium dense, moist, slight petroleum odor. | 137-P3B-P36A-9.0-9. |
| – | | | | NR | ~~~~ | NO RECOVERY | |
| -10 | | 0.0 | wet | FILL | | ASH, some cinders, some gravel, little ceramics, (10YR | |
| -11 | 1.5 | | | | | 4/1) dark gray, non plastic, loose, wet. | 137-P3B-P36A-11.0-11 |
| 7 | | | | NR | ~~~ | NO RECOVERY | |
| -12 | | 0.0 | wet | FILL | | ASH, some cinders, some fine to medium sand, little | |
| -13 | 2 | | | | | gravel, trace glass, (10YR 3/1) very dark gray, non plastic, loose, wet. | 137-P3B-P36A-13.0-13 |
| -14 | | 0.0 | wet | FILL | | ASH, some cinders, some gravel, little paper, (10YR 4/1) | |
| 15 | 1.7 | 0.0 | wet | TILL | | dark gray, non plastic, medium dense, wet. | 137-P3B-P36A-15.0-1 |
| -16 | | | | NR | | NO RECOVERY | |
| - | 4 7 | 0.0 | wet | FILL | | ASH, some cinders, some fine to medium sand, (10YR 4/1) dark gray, non plastic, medium dense, wet. | |
| -17 | 1.7 | 0.0 | moist | FILL | | organic SILT, little ash, (10YR 2/1) black, medium | 137-P3B-P36A-17.0-17 |
| \dashv | | 0.0 | moist | FILL | | \timeslity, soft, moist. \timeslity SAND, trace ash, (10YR 2/2) very dark brown, \timeslity | |
| -18 | | 0.0 | moist | NR | | non plastic, medium dense, moist. | |
| \dashv | | 0.0 | moist | FILL | \bowtie | NO RECOVERY | 137-P3B-P36A-18.5-19 |
| -19 | 1.5 | 0.0 | moist | ML | | fine silty SAND, little ash, trace coal, (10YR 2/2) very dark brown, low plasticity, loose, moist. | 137-P3B-P36A-19.0-19 |
| 4 | | 0.0 | moist moist | PT | 12/2/2/2 | sandy SILT, some roots, little clay, (10YR 2/2) very dark | 137-F3D-F30A-19.0-18 |
| 20 | | | | | 1, 11, 1 | brown, medium plasticity, soft, moist. Soil consistent with UNDno. | |
| | | | | | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM. | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 137-P3B-Q36A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610853.6 **Date Started Drilling:** 12/20/2013 7:48:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682467.2 Date Finished Drilling: 12/20/2013 Core Size: 3 in Boring Total Depth: 20 ft Depth to Water: Logged By: R. Kantor Project Manager: Chris Martell Physical Location: Site 137 - Q36A Elevation: 13.2 ft NAVD88

| | 1 | | | | | | (NOTE I | gs = below ground surface) |
|--|---------------------|--------------|---------------------|-------|-----------------------------|--|---|----------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | Class | | Graphic Log | Surface Cover and Thickness: | Sample ID |
| 1.0 | | 0.0 | dry to moist | 4B | ASPHAL ⁻ FILL | | ASPHALT COPR, some gravel, little GGM, (2.5YR 3/4) dark reddish brown, non plastic, medium dense, dry to moist, no odor, green staining. | |
| -2.0 - - 3.0 - - 4.0 - | 5 | 0.0 | moist to wet | 5 | FILL | | GGM, (10Y 5/2) grayish olive, non plastic, loose, moist to wet. | |
| -5.0 - 6.0 - -7.0 | 5 | 0.0 | moist to wet | 5 | FILL | | GGM, little COPR, (2.5YR 5/1) reddish gray, non plastic, medium dense, moist to wet. | |
| | | 0.0 | wet | 3 | FILL | | fine to coarse CINDERS, little wood fragments, little glass, little metal, (10YR 4/1) dark gray, non plastic, dense, wet, slight garbage odor. | 137-P3B-Q36A-7.5-8. |
| -10. 0 11. 0 12. 0 13. 0 | 3 | 0.0 | wet | 3 | FILL | | fine to coarse CINDERS, little wood fragments, little glass, little ceramics, (10YR 4/1) dark gray, non plastic, dense, wet, burnt garbage odor. | 137-P3B-Q36A-11.5-1 |
| -14.0 | | 0.0 | wet | 3 | FILL | | fine to coarse CINDERS, little glass, little ceramics, little metal, (10YR 4/1) dark gray, non plastic, dense, wet, burnt odor. | 137-P3B-Q36A-13.5-1 |
| | 5 | 10.2 | moist moist | 3 3 | FILL FILL | | fine silty SAND, little oil-like material, (10YR 2/1) black, low plasticity, medium dense, moist, slight HC odor. SILT, little fine sand, little cinders, (7.5YR 3/2) dark | 137-P3B-Q36A-17.5-1 |
| -19.0 | _ | 15.7 | moist | 7 | PT | \(\frac{\lambda}{\lambda}\) \(| brown, medium plasticity, soft, moist. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, high plasticity, medium stiff, moist, slight sulfur odor. Soils consistent with UNDorg. | 137-P3B-Q36A-19.0-1 |



PPG LOGS.GDT - 8/16/13 08:5

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

Boring ID: 137-P3B-R36A

Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610868.9 Date Started Drilling: 7/11/2013 8:15:00 AM Coordinates (NJSPNAD83) y: 682450.7 Rig Type: Date Finished Drilling: 7/11/2013 10:00:00 AM Core Size: 3 in Boring Total Depth: 19 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Elevation: 12.9 ft NAVD88 Physical Location: Site 137 - R36A (Note bgs = below ground surface) Depth Recovery PID Moisture Sample Graphic Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** 0.0 CONCRETE () 4 7 7 2 crushed CONCRETE, and coarse gravel 0.0 dry **FILL** COPR, some fine silty sand, (2.5YR 3/6) dark red, non plastic, loose, dry, no odor, no staining. 0.0 FILL fine to medium SAND, with cinders, coal, ash, trace dry COPR, (5YR 3/4) dark reddish brown, non plastic, loose, 2 0.0 slightly FILL dry, no odor, no staining. GGM, some fine sand, little COPR, (5GY 5/4) light olive moist green, low plasticity, soft to stiff, slightly moist, no odor, green staining. 0.0 FILL slightly GGM, some fine sand, little COPR, (5GY 5/4) light olive moist green, low plasticity, soft to stiff, slightly moist, no odor, 2 green staining. 0.0 FILL ASH, some cinders, coal, little GGM, (5GY 6/4) pale wet 137-P3B-R36A-6.3-6.8 slightly FILL yellowish green, non plastic, loose, wet, no odor, green 0.0 1.4 staining. moist fine to medium silty SAND, with cinders, coal, ash, some NR wood fragments, (10YR 3/2) very dark grayish brown, non plastic, loose to soft, slightly moist, no odor, no 0.0 slightly FILL staining. NO RECOVERY 137-P3B-R36A-8.3-8.8 0.0 moist FILL 1.3 dry fine to medium silty SAND, with cinders, coal, little brick. fine to medium gravel, (5YR 5/4) reddish brown, non NR plastic, loose to soft, slightly moist, no odor, no staining. 0.0 **FILL** CINDERS, with ash and coal, little fine gravel, (7.5YR wet 137-P3B-R36A-10.3-10.8 (2.5/1) black, non plastic, loose, dry, no odor, no staining. 1.5 NO RECOVERY ASH, with cinders, coal, trace wood fragmets, ceramics, fill material, (5GY 6/4) pale yellowish green, non plastic, NR loose, wet, no odor, green staining. 0.0 **FILL** wet NO RECOVERY 137-P3B-R36A-12.3-12.8 ASH, with cinders, coal, some wood fragmets, ceramics, 16 13 (5GY 6/4) pale yellowish green, non plastic, loose, wet, no odor NR NO RECOVERY 0.0 wet FILL ASH, and cinders, some coal, wood fragments, (5GY 137-P3B-R36A-14.3-14.8 6/4) pale yellowish green, non plastic, loose, wet, no 17 odor, green staining. NO RECOVERY NR -16 0.0 slightly SILT, some fine sand, little roots, trace ash, (7.5YR 4/3) **FILL** 137-P3B-R36A-16.3-16.8 moist brown, low plasticity, soft, slightly moist, no odor, no 18 137-P3B-R36A-16.8-17.3 2.1 dry PT PEAT (degraded vegetated material), 80% organic fibers. 137-P3B-R36A-17.3-17.8 20% organic silt, (7.5YR 3/2) dark brown, non plastic, NR 18 stiff, dry, strong organic odor. Soils consistent with MM. NO RECOVERY 11/11/ 2.4 dry 1 1, 11, 19 PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.



Boring ID: 137-P3B-S32A

| Jacks Started Drilling: 71/19/2013 9:5:200 AM Rig Type: | _ | | | arfield Ave | | | Drilling Company: SGS North America | | |
|--|-----------|---------|---------|-------------|-------------|-----------|--|--|-------------------------------|
| petch finished Drilling: 719/2013 1130:00 AM Core Size: 3 in Boring Total Dopth Valor: NA Flysical Location: Site 137 - S32A Elevation: 14.2 ft NAVD88 Elevation: 14.2 ft NAVD | | | | | | | Drilling Method: Geoprobe | | |
| Project Manager: Chris Martell Depth to Water: NA Project Martell Depth to Water: | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Physical Location: Site 137 - S32A Elevation: 14.2 ft.NVD88 Sample Country C | | | illing: | 7/19/2013 | 11:30:00 AN | | | | |
| Pert | | | | | | | Project Manager: Chris Martell | | |
| Semble Recovery PID Moisture USCS Graphic Confernt Logs L | hysical L | .ocatio | n: Site | e 137 - S32 | 2A | | | | |
| Surface Cover and Thickness: Surface Cover and Thickness: Sample Child | | | | | | | | (Not | e pgs = pelow ground surface) |
| crushed well-graded GRAVEL, with sand and silt, trace coal, (7,578 43) brown, non plastic, lose, dry to slightly moist, no odor, no staining. 2 | ange Re | | | | USCS | | Surface Cover and Thick | kness: | |
| 2 0.0 dry Fill coal, (7.5YR 4/3) brown, non plastic, loose, dry to slightly molest, no odor, no staining, orushed COPR, with some sand and slit, trace glass fragments, (5YR 34) dark reddish brown, non plastic, loose to medium dense, dry to moist, no odor, green staining, and the staining of the staini | | | | dnı | ASPHALT | | | | |
| 0.0 dry FILL molest, no odor, no staining, crushed COPR, with some sand and silt, trace glass fragments, (SYR 34) dark reddish brown, non plastic, lose to medium dense, dry to moist, no odor, no odor, lost staining, GGM, with trace fine to medium gravel, (5GY 4/4) olive green, non plastic, lose, moist, no odor, green staining, GGM, with trace fine to medium gravel, some sand and silt, (7.5YR 4/1) dark gray, non plastic, medium to coarse well-graded ASH, with fine to medium gravel, some sand and silt, (7.5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining. NR | \dashv | _ [| 0.0 | ary | | \bowtie | | | |
| The content of the | 1- | 2 | 0.0 | dry | FILL | | moist, no odor, no staining. | | |
| Cose to medium dense, dry to moist, no odor, rion oxide staining. GSM, with ricree fine to medium gravel, (SGY 4/4) olive green, non plastic, loose, moist, no odor, green staining. NR NO RECOVERY medium dense, moist, no odor, no staining. NR NO RECOVERY medium dense, moist, no odor, no staining. NR NO RECOVERY medium dense, moist, no odor, no staining. NR NO RECOVERY medium dense, moist, no odor, no staining. NR NO RECOVERY medium dense, moist, no odor, no staining. NR NO RECOVERY medium dense, moist to wet, no odor, no staining. NR NO RECOVERY NR NR NO RECOVERY NR NR NR NR | 2- | | 0.0 | moint | EILI | | | | |
| gravel, some sand and silt, (7,5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining. NR NO RECOVERY medium to coarse well-graded ASH, with fine to medium gravel, some sand and silt, (7,5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining. NR NO RECOVERY NR NO RECOVERY fine SAND, with ash and some fine to coarse gravel, wood fibers, (7,5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. NR NO RECOVERY In 1,3 on moist fill to wet | 3- | 2 | 0.0 | moist | FILL | | loose to medium dense, dry to moist, staining. GGM, with trace fine to medium grave | no odor, iron oxide | |
| 1.3 | -5- | 1.3 | 0.0 | moist | | | gravel, some sand and silt, (7.5YR 4/1 plastic, medium dense, moist, no odor | l) dark gray, non | |
| 1.3 gravel, some sand and slit, (7.5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining. | \dashv | | | | NR | | NO RECOVERY | | |
| 8 | 7 | 1.3 | 0.0 | moist | FILL | | gravel, some sand and silt, (7.5YR 4/1 | l) dark gray, non | |
| wet NR | \dashv | | | | NR | | NO RECOVERY | | |
| NR NR NO RECOVERY 1.3 | 8 | | 0.0 | | FILL | | wood fibers, (7.5YR 3/1) very dark gra | y, non plastic, | |
| the poorty graded SAND, with ash and some fine to medium gravel, trace coal and wood fragments, coramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 12 | 9— | 1 | | wet | NR | ***** | | no staining. | |
| 1.3 by the last state of the l | 10 | | 0.0 | moist | FILL | | fine poorly graded SAND, with ash and | d some fine to | |
| 12 | 11— | 1.3 | 0.0 | to | 1 100 | | medium gravel, trace coal and cerami very dark gray, non plastic, medium d | cs, (7.5YR 3/1) | |
| 2 0.0 moist to wet very moist to wet, no odor, no staining. 1.7 | 12 | | 0.0 | wat | | XXXXX | NO RECOVERY | (2) light grouish | |
| 1.7 1.5 1.7 1.5 | 13- | 2 | | moist to | | | green, non plastic, loose, wet, no odor fine poorly graded LEAN CLAY, with a to medium gravel, trace coal and woo | r, green staining. ush and some fine d fragments, | 137-P3B-S32A-12.3-1 |
| NR FILL fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. NR NO RECOVERY 1.7 O.0 moist to wet fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. NO RECOVERY 1.7 NO RECOVERY FILL fine poorly graded LEAN CLAY, with ash and some fine to medium dense, moist to wet, no odor, no staining. NO RECOVERY FILL fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-21. | 15— | 1.7 | 0.0 | to | FILL | | fine poorly graded LEAN CLAY, with a to medium gravel, trace coal and wood ceramics, (7.5YR 3/1) very dark gray, | ish and some fine d fragments, non plastic, | 137-P3B-S32A-14.0-1 |
| 1.7 moist to wet fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. NO RECOVERY fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 137-P3B-S32A-18. 137-P3B-S32A-18. 137-P3B-S32A-18. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-20. 137-P3B-S32A-21. 22 medium dense, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% wood fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. | 1 | 1.5 | 0.0 | to | FILL | | NO RECOVERY fine poorly graded LEAN CLAY, with a to medium gravel, trace coal and woo ceramics, (7.5YR 3/1) very dark gray, medium dense, moist to wet, no odor, | ish and some fine d fragments, non plastic, | 137-P3B-S32A-16.0-1 |
| 1.7 moist to wet fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. NR NO RECOVERY fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 137-P3B-S32A-18. 137-P3B-S32A-18. 137-P3B-S32A-20. | 18 | | 0.0 | | | XXXXX | | | 127 D2D C204 40 0 4 |
| 21 2 0.0 moist to fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 21 1.8 moist PT medium dense, moist to wet, no odor, no staining. 22 PEAT (degraded vegetated material), 80% wood fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. | 19— | 1.7 | 0.0 | to | | | to medium gravel, trace coal and wood ceramics, (7.5YR 3/1) very dark gray, medium dense, moist to wet, no odor, | d fragments, non plastic, | 131-F30-332A-18.U-1 |
| fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 137-P3B-S32A-20. | 20— | | 0.0 | | | XXXXX | | | 127 D2D C204 00 0 0 |
| 2 wet ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining. 1.8 moist PT medium dense, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% wood fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. | 4 | | 0.0 | | FILL | | | | 131-M3D-332A-20.0-2 |
| 1.8 moist PT medium dense, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% wood fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. | 21— | 2 | | | | \bowtie | | | 137-P3B-S32A-20.7-2 |
| | - | | 1.8 | | PT | | medium dense, moist to wet, no odor, PEAT (degraded vegetated material), 20% organic silt, (7.5YR 2.5/2) very de | no staining. 80% wood fibers, ark brown, non | 137-P3B-S32A-21.2-2 |
| | | | | | | | | odor, no staining. | |
| | | | | | | | | | |



7/9/13

PPG_LOGS.GDT

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 137-P3B-S33A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610947.7 Date Started Drilling: 7/3/2013 10:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682520.5 Date Finished Drilling: 7/3/2013 12:10:00 PM Core Size: 3 in Boring Total Depth: 22 ft Depth to Water: NA Logged By: EW Project Manager: Chris Martell Physical Location: Site 137 - S33A Elevation: 13.9 ft NAVD88 (Note bas = below ground surface) Depth Recovery PID GΑ Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) ASPHALT, with coarse gravel. 0.0 ASPHALT dry fine to medium SAND, with fine to medium gravel, 0.0 FILL 1.7 to 4A FILL (7.5YR 4/1) dark gray, non plastic, loose, dry to moist, 0.0 moist no odor, no staining.
COPR, with silt, (5YR 3/4) dark reddish brown, non moist NR NR plastic, soft, moist, no odor, no staining. 0.0 moist **FILL** NO RECOVERY COPR, with silt, (5YR 3/4) dark reddish brown, non 1.8 plastic, soft, moist, no odor, no staining. 0.0 FILL 5 GGM, with COPR and fine sand, (5GY 4/2) dark greyish moist NR NR brown, non plastic, soft to medium dense, moist, no 0.0 drv 3 FILL odor, green staining. 0.0 to 2 FILL NO RECOVERY moist 0.0 137-P3B-S33A-5.0-5.5 fine to medium SAND, with fine gravel and wood 6 FILL dry 137-P3B-S33A-5.0-5.5X dry fragments, (5YR 4/3) reddish brown, non plastic, loose, dry to moist, no odor, no staining.
fine to medium SAND, some silt, glass fragments, wood 0.0 **FILL** dry 6 137-P3B-S33A-6.5-7.0 fragments and ash, (7.5YR 3/2) dark brown, non plastic, 1.8 loose, dry, moderate chemical odor, no staining. 0.0 3 **FILL** moist ASH, with fine to coarse sand and wood fragments, to trace ceramics, (7.5YR 4/1) dark gray, non plastic, wet NR NR 0.0 loose, dry, no odor, no staining. moist FILL 3 ASH, with fine to coarse sand and wood fragments, 137-P3B-S33A-8.5-9.0 to trace ceramics, (7.5YR 4/1) dark gray, non plastic, 1.7 wet loose, dry, no odor, no staining. fine to medium SAND, with silt and fine to coarse gravel, NR NR 10 with some ceramics and wood fragments, (7.5YR 3/1) 0.0 moist 3 FILL very dark gray, non plastic, loose, moist to wet, no odor, to 137-P3B-S33A-10.5-11.0 no staining. 1.6 wet NO RECOVERY medium SAND, and silt with medium to coarse gravel, NR NR with trace wood fragments, (7.5YR 3/1) very dark gray, 0.0 wet 3 FILL non plastic, loose to soft, moist to wet, no odor, no staining 137-P3B-S33A-12.5-13.0 2 13 medium SAND, and silt with medium to coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist to wet, no odor, no staining. NO RECOVERY 0.0 6 FILL moist 137-P3B-S33A-14.5-15.0 fine to medium SAND, and silt with fine to coarse gravel, 14 little ceramics, (7.5YR 3/1) very dark gray, non plastic, 0.0 FILL 3 moist loose, wet, no odor, no staining NR NR ASH, with fine to medium sand and fine to medium 16 0.0 FILL 3 moist gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining. 137-P3B-S33A-16.5-17.0 1.5 fine to medium SAND, trace silt and roots, some fine 17 gravel and ceramics, (7.5YR 3/2) dark brown, non plastic, loose, moist, no odor, no staining NO RECOVERY NR NR 18 0.0 6 **FILL** moist ASH, with fine to medium sand and fine to medium 137-P3B-S33A-18.5-19.0 gravel, (7.5YR 3/1) very dark gray, non plastic, loose to 2 19 soft, moist, no odor, no staining. NO RECOVERY 137-P3B-S33A-19.5-20.0 ASH, with fine to medium sand and fine to medium 20 0.0 FILL 137-P3B-S33A-20.0-20.5 moist 6 gravel, with fill material and ceramics, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no 137-P3B-S33A-20.5-21.0 0.0 3 **FILL** 2 moist -21 \staining. 137-P3B-S33A-21.0-21.5 2.4 PT moist ASH, with fine to medium sand and fine to medium 1, 11, 1 gravel, with fill material and ceramics, (7.5YR 3/1) very 22 dark gray, non plastic, loose to soft, moist, no odor, no SILT, with ash and glass fragments, (7.5YR 2.5/1) black non plastic, soft, moist, no odor, no staining.
PEAT (degraded vegetated material), with 80% organic Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



PPG - PPG_LOGS.GDT - 7/9/13 13:08

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 137-P3B-S33A

| | 732.304.32 | | | | | | | | Page: 2 |
|----------------------------|---------------------------|--------------|---------------------------|--------------|-------------|--------------------|--|--|---------------------------|
| Project | Name: F | PG Ga | rfield Ave | | | | Company: SGS North America | 0 | 200) 040047.0075 |
| | Number: | | |). 4 E . O C |) ANA | | Method: Geoprobe | Coordinates (NJSPNAD | |
| Date Si | arted Drill nished Dri | lling. / | 7/3/2013 10 7/3/2013 1 | 12·10·0 | O DM | Rig Typ | ze: 3 in | Coordinates (NJSPNAD Boring Total Depth: 22 | |
| | By: EW | | 11312013 | 12.10.0 | JO I IVI | | Manager: Chris Martell | Depth to Water: NA | - IL |
| Physica | al Location | n: Site | 137 - S33 | 3A | | 1. 10,000 | Manageri erine Marten | Doparto Materia 101 | |
| | | | | | | | | (Note bg | s = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and TI | | Sample ID |
| Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | | GA Class | USCS | Graphic Log | Surface Cover and Tibers and 20% organic silt, (7.5YR brown, non plastic, stiff, moist, slig staining. Soils consistent with MM. | R 2.5/3) very dark | Sample |
| Commor | 1te: 1) 3 atta | mnte we | re made to o | htain h | est recover | / 2) MM/I INID | confirmed to be 1 ft thick. | | |
| COMMITTER | າເວ. 1) ວ ສແຍ | indra mel | e made to 0 | vualii De | courecuver | / Z J IVIIVI/ UIND | COMMITTIEU TO DE 1 IL LINGK. | | |

ION/FIELD WORK/BORING LOGS/GINT L

Boring ID: EF-24

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Drilling Method: Airknife/Geoprobe Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 610663.9 Date Started Drilling: 4/15/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682396.5 Date Finished Drilling: 4/18/2011 Core Size: 2 in Boring Total Depth: 25 ft Depth to Water: 6.5 ft Logged By: A. Salazar, M. Merdinger Project Manager: Robert Cataldo

| Physical | Location: | | | | | | Elevation: 14.7 ft NAVD88 | |
|---|---------------------|--------------|---------------------|-------------|--------------|----------------|--|--------------------------|
| | | | | | | | (Note bgs = below ground s | urface) |
| Physical | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| 2 5 1 | | 0 | dry | 3 | Fill | | Brown (10YR 4/3) fine SILTY SAND, some Fill Material, trace Coal Ash, loose, dry. No odor. | EF-B24_0.0 |
| 2 - | | 0 | | | | | | EF-B24_2.0 EF-B24_2.5 |
| 3 | | 0 | dry | 3 | Fill | | Red Brick and Mortar (Foundation) | |
| 4 | | 0 | moist | 6 | Fill | | Dark Reddish Brown (5YR 3/2) medium SILTY SAND, some Fill | EF-B24_4.0 |
| 5_5 | | 0 | moist | | 1 111 | | Material (cinders, ash, gravel), loose, moist. No odor. | |
| 6 - | | 0 | | | | | | EF-B24_6.0 EF-B24_6.5 |
| 7 - | | | wet | 6 | Fill | | Gray (2.5Y 5/1) ASH and CINDERS, little Silt, loose, wet. No | _ LI -B24_0.5 |
| 8 | | | | | Fill | | \odor. No Recovery | |
| 9 | | | | | | | | |
| 10 | | 0 | | | | | | EF-B24_10.0 |
| 5 11 - | | 0 | moist | 6 | Fill | | Dark Reddish Brown (5YR 3/2) medium SILTY SAND, some Fill Material (cinders, ash, gravel), loose, moist. No odor. | EF-B24_10.0X |
| 12 | 4.0 | | | | Fill | | No Recovery | EF-B24_11.5 |
| 13 | 1.8 | | | | | | No Necovery | |
| | | | | | | | | |
| 15 | | 0 | | | | | | |
| 16 - T | | 0.3 | moist moist | 7 7 | OL PT | <u> </u> | Black Organic SILT, medium dense, moist. No odor. Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, | EF-B24_16.0 |
| 17 - | | 14.8 | | | | <u> </u> | semi-cohesive, medium stiff, moist. Sulfur odor. | EE DO4 47.5 |
| 18 | 2.8 | | | | PT | (10,000 | No Recovery | EF-B24_17.5 |
| 19 | | | | | FI | 1, 11, 11, | No Recovery | |
| <u></u> | | 1.7 | | | | <u> </u> | | |
| <u> </u> | | 5.6 | moist | 7 | PT | 1/ 1// 1// 1 | Same as above. | |
| 22 | | 25 | | | | 71/ 71/ 7 | | EF-B24_22.5X |
| 23 | 2.8 | | | | DT | 1/ 1// 1// | No Decovery | EF-B24_22.5 |
| | | | | | PT | 1, 11, 11, | No Recovery | |
| | | | | | | <u> </u> | | |
| 24 24 25 26 26 27 28 28 29 29 29 30 29 31 29 32 29 33 32 32 33 32 34 29 35 35 | | | | | | | End of boring at 25 ft. | |
| 27 | | | | | | | | |
| | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 32 – 32 | | | | | | | | |
| 33 - | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| Commen | ts: No CC | DPR/G | GM identi | fied at | this locatio | n. Foundat | ion in North portion of soft dig hole. | |

Physical Location: Depth

STD US LAB GDT - 11/3/11 14:35 - \USPSWZVFP001\DATA USPSWZVFP001\DATA USPSWZVFP001\D

GINT

Comments: No COPR/GGM identified at this location.

Piscataway, NJ 08854

Boring ID: EF-25

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 610709.6 Drilling Method: Airknife/Geoprobe Date Started Drilling: 4/15/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682484.0 Date Finished Drilling: 4/18/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 6.5 ft Logged By: A. Salazar, M. Merdinger Elevation: 14.9 ft NAVD88 (Note bgs = below ground surface) Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) dry 3 Fill Brown (7.5YR 4/3) fine to medium SILTY SAND, little medium to EF-B25_0.5 0 coarse angular Gravel, trace Organics and Slag, loose, dry. No 0 2 EF-B25 2.0 EF-B25_2.5 0 3 0 EF-B25 4.0 4 0 5 moist 6 Fill Very Dark Gray (7.5YR 3/1) SILT, ASH and CINDERS, loose, 0 EF-B25_6.0 EF-B25_6.5 6 moist. No odor. wet 6 Fill Same as above, wet. 1.7 Fill No Recovery 8 9 0 10 EF-B25 10.0 6 Fill Same as above, wet. wet 0 11 EF-B25_11.5 12 2.1 Fill No Recovery 13 14 0 15 6 Fill wet Same as above, wet. 0 16 EF-B25_16.0 0 17 PT Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, moist 7 3.1 EF-B25_17.5 semi-cohesive, medium stiff, moist. Sulfur odor. V1/ V1/ 18 PT 11 11 1 No Recovery 19 1, 11, 11, 1.8 20 11/ moist PT Same as above. 57.2 21 1, 11, 11, EF-B25_21.5 22 11, 11, 11 2 PT 11/ 11 11 No Recovery 23 1, 11, 11, 24 1, 11, 11, 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34

| A 30 Kris | ECO | M d Pienat | awav NI∩Ωo | 354 | | | | Boring | ID: EF-2 |
|----------------------------|---------------------------------------|---------------|---------------------|----------|--------------|--|--|--|----------------------|
| · | 732.564.3200 | office te | lephone | | D :::: | | 000 | | Page: |
| Project N | Name: PP Number: 6 rted Drillin | 015-4 | 801 | | Drilling I | Company: Method: Air e: Airknife/0 | rknife/Geoprobe | Coordinates (NJSPNAD83) x: 610746.5 Coordinates (NJSPNAD83) y: 682562.5 | |
| Date Fini | ished Drilli | ng: 4 | 1/18/2011 | | Core Siz | e: 2 in | | Boring Total Depth: 25 ft | |
| | By: A. Sa Location: | lazar, | M. Merdin | ger | Project I | Manager: R | Robert Cataldo | Depth to Water: 5 ft Elevation: 15.2 ft NAVD88 | |
| | | | | | | | | (Note bgs = below groun | d surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | | Moisture Content | | USCS | Graphic Log | Su | rrface Cover and Thickness: | Sample Number |
| 1 | | 0 | moist | 3 | Fill | | | ine to medium SILTY SAND, little Fill Ash, loose, moist. No odor. | EF-B26_0 |
| _2 | | 0 | | | | | | | EF-B26_2 EF-B26_2 |
| 4 | | 0 | | | | | | | EF-B26_4 |
| 5 6 | <u> </u> | 0 | wet | 4A | Fill | | Dark Reddish Brown | n (2.5YR 3/4) COPR nodules (100%), fine to ules, texture of silt and fine sand, medium | EF-B26_6 |
| 7 | 2.4 | 0 | wet | 3 . | Fill | | dense, wet. No odo | | EF-B26_7 |
| | | | | | Fill | | fragments, loose, w No Recovery | et. No odor. | / |
| 10 | | 0 | wet | 4B | Fill | | Dark Reddish Brow | n (2.5YR 3/4) COPR nodules (75%), fine to | EF-B26_1 |
| 11 - 12 | | 0 | wet | 3 | Fill | | 0.5 in diameter nodu No odor. | ulès, some Silt and fine Sand, loosé, wet. | EF-B26_1 |
| 13 | 4.1 | 0 | dry | 5 | Fill | | medium Gravel, loo | se, wet. No odor. GGM (100%), slight crushed cement texture, | EF-B26_1 |
| 14 - 15 | | 0 | wet | 3 | Fill Fill | | Very Dark Gray (7.5 medium Gravel, loo | SYR 3/1) SILT and fine SAND, trace fine to | |
| 16 | | 7.8 | moist | 3 | Fill | | | me Fill Material (cinders, glass), moist. | EF-B26_16 |
| 17 - | 2.7 | 18.2 | moist | 7 | PT | \(\text{\lambda} \) \(| Dark Reddish Brown semi-cohesive, med | n (5YR 3/2) PEAT, Organics, little Silty Clay, dium stiff, moist. Sulfur odor. | EF-B26_1 |
| 18 - 19 | | | | | PT | 1/ 7/1/ 7/1/ 7/1/ 7/1/ 7/ | No Recovery | | |
| 20 | | 0 | | | | <u> </u> | | | |
| | | 0 105 | <u>moist</u> wet | 10 | PT SW | | | n (5YR 3/2) medium SAND, little fine and Silt, loose, wet. No odor. | |
| 22 | 4 | 18.5 | moist | 7 | PT | \(\lambda_1\), \(\lam | Dark Reddish Brown semi-cohesive, med | n (5YR 3/2) PEAT, Organics, little Silty Clay, dium stiff, moist. Sulfur odor. | EF-B26_22 |
| 24 | | | | | PT | 71/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 | No Recovery | | |
| 25 | | | | | | 1 | End of boring at 25 | ft. | |
| 26 | _ | | | | | | | | |
| | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | 1 | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | 1 | | | | | | | | |
| 34 | 1 | | | | | | | | |
| 35 | 1 | | | | | | | | |
| Commen | ts: COPF | R ident | ified from | 5-11 ft, | GGM ider | ntified from 1 | 2.1-13.5 ft bgs. | | |

| 30 Knigh | tsbridge Road | l. Piscat | away, NJ 088 | 54 | | | | Boring | ID: EF- |
|----------------------------|--------------------------|--------------|---------------------|---------|------------|----------------|--|--|----------------|
| | 732.564.3200 ame: PP0 | office te | elephone | | Drilling | Company: | 909 | | Page |
| | umber: 6 | | | | Drilling | Method: Ai | rknife/Geoprobe | Coordinates (NJSPNAD83) x: 610768.8 | |
| | ted Drilling | | | | | e: Airknife/0 | Geoprobe | Coordinates (NJSPNAD83) y: 682665.4 | |
| | shed Drilli y: B. Dar | | | ner | Core Siz | | Robert Cataldo | Boring Total Depth: 25 ft Depth to Water: 2.9 ft | |
| | Location: | | | | | go | | Elevation 13.1 ft NAVD88 | |
| D 41- | | | | | | | | (Note bgs = below ground | nd surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Sui | rface Cover and Thickness: | Sampl Numbe |
| 1 | | 0 | dry | 1 | | | Concrete | | EF-B27 |
| 2 | | 0 | moist | 3 | FILL | | Reddish Yellow (7.5 | YR 6/6) fine to medium SAND, some Silt, | EF-B27 |
| | | 0 | | | | | little fine to medium | Gravel, loose, moist. No odor. | EF-B27_ |
| 3 | | | | | | | | | |
| 4 | } | 0 | wet | 4B | FILL | | Very Dark Gray (7.5) | YR 3/1) fine to coarse SAND, some fine to e COPR nodules (30%) and Slag, loose, wet. | EF-B27_ |
| 5 | | 0 | | | | | No odor. | , , | |
| 6 | | 0 | wet | 3 | FILL | | Brown (7.5YR 5/3) fi rounded Gravel, loos | ne to medium SAND, some Silt, little fine | EF-B27_ |
| 7 | | 0 | wet | 5 | FILL | | Greenish Gray (Gley | /1 5/1) GGM (90%), texture of Silt and | |
| | 4 | 0 | | | | | medium Sand, trace medium stiff, wet. C | Cinders, Ash and Mica fragments, loose to Chemical odor. | EE DOZ |
| 8 | ļ | | ł | | | | | | EF-B27 |
| 9 | | | | | FILL | | No Recovery | | |
| 10 | | 0 | | _ | | | | V COM | EF-B27_ |
| 11 | | 0 | wet | 5 | FILL | | Same as above, 98% | % GGM. | |
| 12 | | | | | | | | | EF-B27_ |
| | 2.2 | | | | FILL | | No Recovery | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | 0 | | _ | | | 0 1 400 | 2004 | EF-B27_ |
| 16 | | 0 | wet | 5 | FILL | | Same as above, 100 | J% GGM. | |
| 17 | | 0 | | | | | | | EF-B27_ |
| 18 | 2.5 | | moist | 12 | FILL | | ── Black-stained SILTY | CLAY, soft, semi-cohesive, moist. No | _ |
| | | | moiot | | FILL | | \odor. CANAL BOTT | | / |
| 19 | | | | | | | No Recovery | | |
| 20 | | 0 | | 40 | | | | | |
| 21 | | 2.5 | moist moist | 12 7 | FILL PT | | Same as above. Dark Reddish Brown | n (5YR 3/2) PEAT, Organics, little Silty Clay, | |
| 22 | | 0.3 | wet | 8 | SM | | \semi-cohesive. med | ium stiff, moist. Sulfur odor. y fine SAND and SILT, wet, loose. Sulfur | EF-B27_2 |
| 23 | | 0 | | | | | odor. | y mie oand and oilt, wet, 100se. Suildf | |
| | | | | | SM | | No Possyon | | |
| 24 | | | | | SIVI | | No Recovery | | |
| 25 | | | | | | | End of boring at 05 f | '' | |
| 26 | | | | | | | End of boring at 25 f | ι. | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| <u> </u> | | | | | | 1 | | | |

Comments: No COPR/GGM identified at this location.

Boring ID: EF-28

Project Name: PPG Soil RIWP Drilling Company: SGS
Project Number: 6015-4801 Drilling Method: Airknife/Geoprobe Coordinates (NJSPNAD83) x: 610690.3
Date Started Drilling: 4/20/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682679.8
Date Finished Drilling: 4/22/2011 Core Size: 2 in Boring Total Depth: 25 ft
Depth to Water: 5 ft
Depth to Water: 5 ft

| Logged I | By: B. Da | | | | | wanager: | Robert Cataldo Depth to Water: 5 ft | |
|----------------------------|---------------------|------|---------------------|-------------|--------------|--|--|--------------------------|
| Pnysical | Location: | Behi | na Site 13 | ∠ build | iing | | Elevation: 14.3 ft NAVD88 (Note bgs = below grounds | surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| <u></u> | - | 0 | dry | 2 | | | Black Asphalt | EF-B28_0.8 |
| Continue | - | 1.1 | dry | 3 | Fill | | Very Dark Gray (10YR 3/1) fine to medium SAND, some Silt and medium Gravel, little Fill Material (slag, glass, debris), medium dense, dry. Petroleum odor. | EF-B28_2.0 EF-B28_2.5 |
| [4 - | | 1.2 | dry | 3 | Fill | | Brick and Cobble stone, dense, dry. | EF-B28_4.0 |
| 5 | 1 | 0 | wet | 6 | Fill | | Dark Gray (10YR 4/1) ASH and CINDERS, little Silt, trace medium Gravel, loose, wet. No odor. | |
| 6 | | 0 | | | | | mediam Graver, 1995e, wet. The odor. | EF-B28_5.5 |
| 7 | 1.1 | | | | Fill | | No Recovery | |
| 8 9 | - | | | | | | | |
| 10 | 1 | 0 | wet | 6 | Fill | | Same as above, little Coal fragments. | EF-B28_10.0 |
| 11 | 1 | 0 | WEL | | | | Same as above, little Coal Hagments. | EF-B28_11.0 |
| 12 | 1.5 | | | | Fill | | No Recovery | _ |
| 13 - 14 | - | | | | | | | |
| 15 | | 0 | | | | | | EF-B28_15.0 |
| 16 | | 0.3 | wet | 6 3 | Fill Fill | | Same as above. Dark Reddish Gray (5YR 4/2) Organic SILT, little Clay, little | |
| 5 17 - | 1 | 7 | | | | | interbedded Red-Brown Silty Sand, soft, moist. Oil odor. | |
| 18 | 3 | | moist | 7 | PT | 1, 11, 11, | Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor. | EF-B28_17.5 |
| 19 | | | | | PT | 1, 1, 1, 1, | No Recovery | |
| 20 | | 2.3 | | | DT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Comp. on phase | |
| 21 | 1 | 0 | moist | 7 | PT | 1/ 1/ 1/ | Same as above. | |
| 22 | | 0 | | | | 71 71 7 | | EE D20 22 5 |
| 23 - | 5 | 0 | | | | 1, 11, 11, | | EF-B28_22.5 |
| 24 | 1 | 0 | | | | <u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u> | | |
| 25 | - | | moist | 8 | SM | | Gray (Gley1 6/0) very fine SAND, little Silt and Red-Brown fine | |
| 26 | 1 | | | | | | Gravel, medium dense, moist. No odor. End of boring at 25 ft. | |
| 27 | 1 | | | | | | | |
| 28 | 1 | | | | | | | |
| 29 <u> </u> | 1 | | | | | | | |
| 30 | 1 | | | | | | | |
| 31 | 1 | | | | | | | |
| 5 32 | 1 | | | | | | | |
| 33 - | | | | | | | | |
| 34 | - | | | | | | | |
| 35 | 1 | | | | | | | |

USPSW2VFP001/ENVIRONMENTYPISCATAWAY/PROJECTIPPG-NJCPROGRAMI9-WORKFILES/PROJECT MANAGER-CATALDOB/GA RI-SOIL INVESTIGATION/FIELD WORK/BORING LOGS/GINT

STD US LAB.GDT - 11/3/11 14:35 - \\USPSW2VFP001\\DATA

GINT

Comments: No COPR/GGM identified at this location

Boring ID: EF-29

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Airknife/Geoprobe Coordinates (NJSPNAD83) x: 610571.8 Date Started Drilling: 4/20/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682736.3 Date Finished Drilling: 4/22/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 6.5 ft Logged By: B. Daniels, M. Merdinger Physical Location: Behind Site 132 building Elevation: 15.3 ft NAVD88 (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) dry 2 Black Asphalt EF-B29_0.8 0 Reddish Brown (5YR 4/4) fine to medium SILTY SAND, some moist 3 Fill 0 2 Ash and Cinders, little fine to coarse Gravel, loose, moist. No EF-B29 2.0 odor. EF-B29 2.5 0 0 4 EF-B29_4.0 0 5 moist 6 Fill Gray (7.5YR 5/1) SILT and CINDERS, little Ash and Coal 0 6 fragments, loose, moist. No odor. EF-B29 6.5 2.2 Fill No Recovery 8 9 0 EF-B29 10.0 10 6 Fill EF-B29_10.0X moist Same as above. 0 11 0 12 EF-B29 12.5 3.1 13 Reddish Brown (5YR 4/3) SILT, trace Organics, medium stiff, moist 3 Fill moist. No odor. Fill 14 No Recovery 0 15 EF-B29 15.0 moist 3 Fill Same as above. 16 Fill No Recovery 17 0.7 18 19 0 20 10 SM Brown (10YR 4/3) fine SAND and SILT, little coarse angular moist 0 EF-B29_21.0 21 10 Gravel, dense, moist. No odor. moist Reddish Brown (2.5YR 4/4) and Strong Brown (7.5YR 5/6) fine 22 to medium SAND, some Silt and fine to medium Gravel, dense, SM 1.8 moist. No odor. 23 No Recovery 24 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: EF-91

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Soft Dig Coordinates (NJSPNAD83) x: 610685.4

Date Started Drilling: 8/30/2012 12:55:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682188.7

Date Finished Drilling: 8/30/2012 1:30:00 PM Core Size: 2 in Boring Total Depth: 4.5 ft

Logged By: Ben Daniels Project Manager: Chris Martell Depth to Water: NA

Physical Location: 10.6 ft NAVD88

| | | | /30/2012 1 | | | | | rdinates (NJSPNAD | |
|---------------------------|---------------------|--------------|---------------------|-------------|---------|---------------------------|--|---------------------|-------------------------|
| | | | 8/30/2012 | 1:30:0 | 0 PM | Core | Size: 2 in Bori | ng Total Depth: 4.5 | 5 ft |
| | By: Ben | | 1 | | | Proj | | th to Water: NA | |
| Physica | I Location | า: | | | | | Elev | ration: 10.6 ft NAV | |
| | | | | | | | | (Note bgs | = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness | 3: | Sample ID |
| | | 0.0 | de | 2 | ASPHALT | XXXXX | ASPHALT | | |
| . – | | 0.0 | dry | 3 | FILL | | fine to coarse SAND, some fine to coarse gr | ravel little silt, | |
| - 1 | | 152.0 | dry | 3 | FILL | | (7.5YR 3/2) dark brown, dry , no odor, angul | lar, Little fill | |
| _ | | | | | | | material (brick, glass, asphalt) silty SAND, little fine to medium gravel and f | fill material | |
| -2 | | | | | | | (7.5YR 4/1) dark gray, dry to moist, strong s | solvent odor. | EF-B091-2.0-2.5 |
| _ | | | | | | $\otimes \otimes \otimes$ | angular, (Coal, ceramic, wood fragments, gla | ass, metal) | |
| 3 | | | moist | | FILL | | Moist at 2.5 ft. MGP odor. | | |
| _ | | | 1110131 | | 1 122 | | silty SAND, little fine to coarse gravel and fill | l material, | |
| - 4 | | 831.0 | moist | 3 | FILL | | (7.5YR 4/1) dark gray, moist, strong solvent (wood fragments, coal, glass) MGP odor. | t odor, angular, | EF-B091-4.0-4.5 |
| + | | 031.0 | HIOISI | 3 | FILL | | silty SAND, little fine to coarse gravel and fill | I material. | LI -D03 I-4.0-4.3 |
| | | | | | | | angular, (Glass, coal, ceramic, paper, metal, fragments) MGP odor. | , wood | |
| ommen | ts: | | | | | | | | |
| ommen | ts: | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FBP-B31A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610526.3

 Date Started Drilling:
 4/28/2014 9:40:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682798.4

 Date Finished Drilling:
 4/28/2014 10:35:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Logged By:
 SS
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

 Physical Location:
 Fishbein

| - | | | | | | (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 |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, little medium gravel, little crushed concrete, trace coal, (5YR 4/3) reddish brown, loose, dry, no odor, no staining. | FBP-B31A-0.5-1.0 |
| -3 -4 | | | | | | | FBP-B31A-2.5-3.0 |
| -5— - -6— | | 0.0 | slightly moist | FILL | | fine to medium SAND, little coarse gravel, trace crushed concrete, (5YR 4/3) reddish brown, loose, slightly moist, no odor, no staining. | FBP-B31A-4.5-5.0 |
| -7 -8 | 4 | 0.0 | moist | FILL | | fine silty SAND, little coarse gravel, trace wood fragments, (7.5YR 4/3) brown, loose, moist, no odor, no staining. | FBP-B31A-6.5-7.0 |
| -9 | | | | NR | | NO RECOVERY | FBP-B31A-8.5-9.0 |
| | | | | | | THE PRESENT | |
| -10 - -11 | | 0.0 | wet | FILL | | sandy SILT, little wood fragments, trace debris, (7.5YR 3/3) dark brown, low plasticity, soft, wet, no odor, no staining. | FBP-B31A-10.5-11.0 |
| -12 - | 5 | | | | | | FBP-B31A-12.5-13.0 |
| -13 - - -14 | | 0.0 | slightly moist | FILL | | fine silty SAND, little medium gravel, trace wood fragments, (7.5YR 5/4) brown, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining. | |
| -15 | | | | | | | FBP-B31A-14.5-15.0 |
| | | 0.0 | moist | FILL | | fine to medium SAND, little gravel, trace debris, (10YR 5/2) grayish brown, loose, moist, no odor, no staining. | FBP-B31A-15.0-15.5 |
| -16 - -17 | | 0.0 | dry | SP | | fine silty SAND, little shale fragments, little coarse gravel, (2.5YR 4/4) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno. | FBP-B31A-15.5-16.0 |
| -18 -18 | 5 | | | | | | |
| -19 - | | | | | | | |
| 20 | | | | | | | |
| ommer | nts: 1) 3 atte | empts we | ere made to | obtain best re | covery 2) U | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inten- | <i>r</i> al of this boring. |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/28/2014 10:55:00 AM

Boring ID: FBP-C31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610546.9 Rig Type: Coordinates (NJSPNAD83) y: 682786.9

Date Finished Drilling: 4/28/2014 11:40:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

| 0.0 0.0 0.0 0.0 0.0 | dry dry wet moist | ASPHALT FILL FILL FILL FILL FILL | | fine to coarse SAND, some medium to coarse gravel, trace asphalt, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. fine to coarse SAND, little coarse gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. ASH, some cinders, little wood fragments, little medium gravel, (7.5YR 5/1) gray, loose, dry, no odor, no staining. fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining. fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | FBP-C31A-3.0-3.5 FBP-C31A-5.0-5.5 FBP-C31A-7.0-7.5 |
|---------------------------------|---|--|------------------------------------|---|--|
| 0.0 | dry dry wet | FILL FILL FILL | | fine to coarse SAND, some medium to coarse gravel, trace asphalt, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. fine to coarse SAND, little coarse gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. ASH, some cinders, little wood fragments, little medium gravel, (7.5YR 5/1) gray, loose, dry, no odor, no staining. fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining. | FBP-C31A-3.0-3.5 FBP-C31A-5.0-5.5 FBP-C31A-7.0-7.5 |
| 0.0 | wet moist | FILL | | brown, loose, dry, no odor, no staining. ASH, some cinders, little wood fragments, little medium gravel, (7.5YR 5/1) gray, loose, dry, no odor, no staining. fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining. fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no | FBP-C31A-5.0-5.5 FBP-C31A-7.0-7.5 |
| 0.0 | wet moist | FILL | | brown, loose, dry, no odor, no staining. ASH, some cinders, little wood fragments, little medium gravel, (7.5YR 5/1) gray, loose, dry, no odor, no staining. fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining. fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no | FBP-C31A-7.0-7.5 |
| 0.0 | wet moist | FILL | | brown, loose, dry, no odor, no staining. ASH, some cinders, little wood fragments, little medium gravel, (7.5YR 5/1) gray, loose, dry, no odor, no staining. fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining. fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no | FBP-C31A-7.0-7.5 |
| 0.0 | moist | FILL | | 4/3) brown, loose, wet, no odor, no staining. fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no | |
| | | | | fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no | FBP-C31A-9.0-9.5 |
| 0.0 | dry | FILL | | staining. | |
| | | | | fine to medium SAND, little fill material, trace coal, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | FBP-C31A-11.0-11.5 |
| | | | | | FBP-C31A-13.0-13.5 |
| 0.0 | dry | FILL | | fine to medium SAND, little fill material, little medium to | FBP-C31A-14.3-14.8 |
| 0.0 | to moist slightly moist dry | OL SM | | coarse gravel, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, no staining. fine to medium SAND, little organic fibers, (7.5YR 4/2) brown, loose, slightly moist, no odor, no staining. Soils consistent with UNDorg. fine to medium silty SAND, trace medium gravel, (7.5YR 5/1) gray, dense, dry, no odor, no staining. Soils consistent with UNDno. | FBP-C31A-14.8-15.3 |
| | dry | SP | | fine to medium silty SAND, (5YR 4/4) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | |
| | 0.0 | 0.0 0.0 to moist slightly moist dry dry | 0.0 to moist slightly moist dry SP | dry SP | to moist SIM |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/29/2014 7:40:00 AM

Boring ID: FBP-D31A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610569.9 Rig Type: Coordinates (NJSPNAD83) y: 682775.5

Date Finished Drilling: 4/29/2014 9:00:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: ES Depth to Water: NA Project Manager: Scott Mikaelian

| 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- | | 0.0 | dry | FILL | | fine to medium SAND, with fine to medium gravel, (10YR 3/3) dark brown, loose to medium dense, dry, no odor, no staining. | FBP-D31A-0.5-1.0 |
| -2- | 5 | 0.0 | dry | FILL | | CINDERS, and ash, some fine to medium gravel, little fine to medium sand, trace coal, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. | FBP-D31A-2.0-2.5 |
| -3 | | 0.0 | moist to wet | FILL | | fine to medium staining. fine to medium gravel, trace ash, (5R 5/2) weak red, soft to medium dense, moist to wet, no odor, no staining. | |
| -5- | | 0.0 | moist | FILL | | fine to medium SAND, trace silt, cinders, ash, (10YR 3/1) | FBP-D31A-4.0-4.5 |
| -6- | | 0.0 | moist | FILL | | very dark gray, medium dense, moist, no odor, no staining. | FBP-D31A-6.0-6.5 |
| -7- | 4 | 0.0 | moist | FILL | | CINDERS, and ash, some silty sand, little fine gravel, trace | |
| -8- | · | | | | | coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining. | FBP-D31A-8.0-8.5 |
| -9 | | | | NR | | NO RECOVERY | |
| -10 - -11 | | 0.0 | wet | FILL | | CINDERS, with ash, some fine to medium silty sand, little medium to coarse gravel, trace coal, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. | FBP-D31A-10.0-10.5 |
| -12 | | 0.0 | moist | FILL | | fine to medium silty SAND, trace ash, (7.5YR 6/4) light | FBP-D31A-12.0-12.5 |
| -13 -13 | 5 | 0.0 | HIOISE | T ILL | | brown, medium dense, moist, no odor, no staining. | 1 50 17 12.0 12.0 |
| -14 - | | | | | | | FBP-D31A-14.0-14.5 |
| 15 | | 0.0 | moist dry | FILL FILL | | sandy SILT, trace fill material, (7.5YR 6/3) light brown, low plasticity, soft, moist, no odor, no staining. | FBP-D31A-15.0-15.5 |
| 16- | | 0.0 | to moist dry | OL | | sandy SILT, trace fill material, (7.5YR 6/3) light brown, low plasticity, soft, dry to moist, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, some | FBP-D31A-15.5-16.0 |
| -17 | 5 | 0.0 | dry dry | PT OL | | fine to medium sand, (10YR 4/3) brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with UNDorg. | |
| -18 -19 | | | | | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | |
| | | 0.0 | | 0 | | UNDorg fine to medium SAND, some silt, little fibers, trace native stone, (10YR 5/1) gray, dense, dry, no odor, no | |
| 20 | | 0.0 | dry | <u>SM</u> | | staining. Soils consistent with UNDorg. UNDno fine to coarse SAND, little medium gravel, (2.5YR 3/2) dusky red, dense, dry, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FBP-E31A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610598.2 |
| Date Started Drilling: 4/29/2014 9:05:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682761.9 |
| Date Finished Drilling: 4/29/2014 10:00:00 AM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Fishbein | | Flevation: 14.8 ft NAVD88 |

| Physica | al Location | n: FISI | nbein | | | Elevation: 14.8 ft NA | |
|----------------------------|---------------------|--------------|---------------------|-------------|----------------|--|---------------------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | bgs = below ground surface) Sample ID |
| . , | | 0.0 | | A O DULAL T | | AODUM | |
| | | 0.0 | dry | ASPHALT | XXXXX | ASPHALT | |
| 1 | | 0.0 | ury | FILL | \bowtie | fine to coarse SAND, with fine to coarse gravel, trace asphalt, (10YR 4/1) dark gray, loose, dry, no odor, no | FBP-E31A-0.5-1.0 |
| - 1 - | | 0.0 | dry | FILL | \bowtie | staining. | |
| | | | | | \bowtie | ASH, with cinders, some fine to coarse sand, little coal, | |
| -2- | _ | | | | \bowtie | (7.5YR 7/1) light gray, loose, dry, no odor, no staining. | FBP-E31A-2.0-2.5 |
| | 5 | 0.0 | dry | FILL | | fine to medium silty SAND, little cinders, ash, trace wood | |
| −3 − | | 0.0 | ui y | 1 166 | \bowtie | debris, coal, (10YR 4/2) dark grayish brown, medium dense, | |
| | | | | | \bowtie | dry, no odor, no staining. | |
| -4- | | | | | \bowtie | - | |
| | | | | | \bowtie | | FBP-E31A-4.0-4.5 |
| 5 | | | | | \bowtie | | |
| 5 | | 0.0 | dry | FILL | \bowtie | CINDERS, with ash, some fine to medium silty sand, little | |
| | | | | | \bowtie | wood debris, trace coal, (5YR 2.5/1) black, loose, dry, no | |
| 6 | | 0.0 | slightly | FILL | | odor, no staining. ASH, with cinders, some fine to medium gravel, trace wood | FBP-E31A-6.0-6.5 |
| | | | moisť | | \bowtie | debris, (10YR 3/1) very dark gray, loose, slightly moist, no | |
| −7 − | | | | | \bowtie | odor, no staining. | |
| | 4 | | | | \bowtie | | |
| —8— | | | | | \bowtie | _ | FBP-E31A-8.0-8.5 |
| - 4 | | | | | \bowtie | | FBP-E31A-0.0-0.5 |
| 9 | | | | | \bowtie | | |
| _ | | | | NR | | NO RECOVERY | |
| 40 | | | | | | | |
| —10— - – —11— - – | | 0.0 | moist | FILL | | CINDERS, and ash, little fine to medium gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining. | FBP-E31A-10.0-10.5 |
| —12— - – —13— - – | 5 | | | | | | FBP-E31A-12.0-12.5 |
| 14 | | 0.0 | moist | FILL | | sandy SILT, little cinders, trace wood debris, fibers, (10YR | FBP-E31A-14.0-14.5 |
| | | | | | \bowtie | 4/2) dark grayish brown, low plasticity, medium dense to | |
| 15 | | 0.0 | moist | FILL | | soft, moist, no odor, no staining. | FBP-E31A-15.0-15.5 |
| | } | 0.0 | moist | SM | \bowtie | fine to medium silty SAND, some cinders, little wood debris, trace ash, (10YR 5/2) grayish brown, medium dense, moist, | FBP-E31A-15.5-16.0 |
| -16 | } | 0.0 | dry | PT | | \no odor, no staining. | |
| | - | 0.0 | dry | OL | | UNDno fine to medium silty SAND, some trace organic | |
| —17— | | 0.0 | ury | OL | <u>[</u>] | fibers, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno. | |
| - 4 | 5 | | | | | PEAT (degraded vegetated material), 80% organic fibers, | |
| 18 | | | | | | 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, | |
| _ '0 _ | | | | | | moderate organic odor, no staining. Soils consistent with | |
| 40 | | | | | | MM. LINDorg CILT. 600/ organia silt. 400/ organia fiboro. (7 EVD.) | |
| 19 | | | | | <u>-</u> -] | UNDorg SILT, 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, medium stiff to soft, dry, slight | |
| | | 0.0 | -11-1-11 | 014 | | organic odor, no staining. Soils consistent with UNDorg. | |
| -20- | | 0.0 | slightly moist | SM | <u> </u> | UNDno fine silty SAND, (7.5YR 5/1) gray, soft, slightly | |
| | | | | | | \moist, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | | |
| | | | | | | | |

Boring ID: FBP-F31A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610626.1 Date Started Drilling: 5/2/2014 8:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682748.6 Date Finished Drilling: 5/2/2014 9:30:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: SS Depth to Water: NA Project Manager: Scott Mikaelian

| | | | | | | (Note I | ogs = below ground surface) |
|----------------------------|---------------------|--------------|------------------------|----------------|--|---|-----------------------------|
| 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 2 | 5 | 0.0 | dry to moist | FILL | | CINDERS, and fine to medium sand, some ash, little debris, (7.5YR 2.5/3) very dark brown, loose, dry to moist, no odor, no staining. | FBP-F31A-0.5-1.0 |
| . – | | | | | | | FBP-F31A-2.5-3.0 |
| -3 - -4 | | 0.0 | dry | FILL | | fine to medium SAND, little fine gravel, trace debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining. | |
| | | 0.0 | dry | FILL | | CINDERS, and ash, trace wood fragments, (7.5YR 3/1) very | FBP-F31A-4.5-5.0 |
| -5— - -6— | | 0.0 | moist | FILL | | dark gray, loose, dry, no odor, no staining. CINDERS, some fine to medium sand, some medium gravel, little debris, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | |
| -7 -8 | 5 | | | | | | FBP-F31A-6.5-7.0 |
| _ _9 | | 0.0 | wet to saturated | FILL | | fine to medium SAND, some cinders, some ash, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining. | FBP-F31A-8.5-9.0 |
| -10 | | 0.0 | wet | FILL | | CINDERS, some debris, some medium to coarse gravel, | |
| - -11 - | | 0.0 | to saturated | T ILL | | (7.5YR 5/1) gray, loose, wet to saturated, no odor, no staining. | FBP-F31A-10.5-11.0 |
| -12 - -13 - | 5 | | | | | | FBP-F31A-12.5-13.0 |
| -14 - | | 0.0 | slightly | FILL | | fine to modium SAND, come organic fibers (7 EVD 2 E/2) | FBP-F31A-14.5-15.0 |
| -15 | | 0.0 | moist | FILL | | fine to medium SAND, some organic fibers, (7.5YR 2.5/2) very dark brown, loose, slightly moist, no odor, no staining. | 1 DI 1 0 IA2 14.0-10.0 |
| - | | 0.0 | moist | FILL | | Soil is consistent with disturbed native material. | FBP-F31A-15.5-16.0 |
| -16 - -17 | | 0.0 | moist | PT | | fine to medium SAND, little organic fibers, trace wood fragments, (7.5YR 4/2) brown, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, | FBP-F31A-16.0-16.5 |
| _ _18 | 5 | | | | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1 | 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent wth MM. | |
| -19 - -20 | | 0.0 | slightly moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| ommer | nts: 1) 3 atte | empts w | ere made to | obtain best re | covery 2) L | JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interv | al of this boring. |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/1/2014 8:15:00 AM

Boring ID: FBP-G31A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610652.4 Rig Type: Coordinates (NJSPNAD83) y: 682735.5

Date Finished Drilling: 5/1/2014 9:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: SS Depth to Water: NA Project Manager: Scott Mikaelian

| | al Locatio | n: Fisl | hbein | | | Elevation: | | |
|------------------------------|---------------------|--------------|---------------------|--------------|----------------|---|----------------|-----------------------------|
| i iiyolo | ui Locatio | 11. 110 | | | | Elevation. | | bgs = below ground surface) |
| 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 - 1 - 2 | 5 | 0.0 | moist | FILL | | medium to fine SAND, some cinders, little medium gratrace debris, (7.5YR 3/2) dark brown, loose, moist, no no staining. | ivel, odor, | FBP-G31A-1.0-1.5 |
| 3 4 4 | | | | | | | | FBP-G31A-3.0-3.5 |
| —5— — 6— — 7 | | 0.0 | wet | FILL | | CINDERS, some ash, little debris, (7.5YR 2.5/1) black loose, wet, no odor, no staining. | , | FBP-G31A-5.0-5.5 |
| 8 8 | 5 | | | | | | | FBP-G31A-7.0-7.5 |
| _ | | | | | | | | FBP-G31A-9.0-9.5 |
| 10 11 | | 0.0 | saturated | FILL | | fine silty SAND, and cinders, some ash, (7.5YR 3/3) dibrown, loose, saturated, no odor, no staining. | ark | FBP-G31A-11.0-11.5 |
| 12 | 5 | 0.0 | wet | FILL | | CINDERS, and ash, (7.5YR 3/1) very dark gray, loose, | wet | 7 B. GOWATE THE |
| —13— —14— —15— | | | | | | no odor, no staining. | ,, | FBP-G31A-13.0-13.5 |
| 16 | | 0.0 | moist moist | FILL FILL | | fine silty SAND, some organics (grass), (7.5YR 3/3) da brown, loose, moist, no odor, no staining. Disturbed na material. | ark ative | FBP-G31A-15.0-15.5 |
| | | | to wet | | | fine to medium SAND, some fine to medium gravel, tra | ace | FBP-G31A-16.0-16.5 |
| 17 18 19 | 5 | 0.0 | moist | PT | | coal, (5YR 4/4) reddish brown, loose, moist to wet, no no staining. Disturbed native material. PEAT (degraded vegetated material), 80% organic fibe 20% organic silt, (7.5YR 4/2) brown, stiff, moist, mode organic odor, no staining. Soils consistent with MM. | odor, ers, | FBP-G31A-16.5-17.0 |
| | | | | | | | | |

Boring ID: FBP-H31A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610678.8 Date Started Drilling: 4/30/2014 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682721.7 Boring Total Depth: 20 ft Date Finished Drilling: 4/30/2014 9:05:00 AM Core Size: 2.0 in Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|--------------------------|---------|--|--|------------------------|
| | | 0.0 | dnı | ASPHALT | XXXXX | ASPHALT | |
| -1 - -2 | 5 | 0.0 | dry ^l | FILL | | fine to medium SAND, some fine to medium gravel, little cinders, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining. | FBP-H31A-0.5-1.0 |
| -3 -4 | 5 | 0.0 | dry to sl moist | FILL | | CINDERS, some fine to medium sand, trace glass fragments, trace wood fragments, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining. | FBP-H31A-2.5-3.0 |
| | | | | | | | FBP-H31A-4.5-5.0 |
| -5— -6— | | 0.0 | moist | FILL | | fine to medium SAND, with ash, little cinders, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining. | |
| _ | | | | | | | FBP-H31A-6.5-7.0 |
| -7 -8 | 5 | 0.0 | wet to saturated | FILL | | CINDERS, little wood fragments, trace ceramics, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. | |
| -9 | | | | | | | FBP-H31A-8.5-9.0 |
| -10 | | 0.0 | wet | FILL | | CINDERS, little fine to medium sand, little debris, (7.5YR | |
| -11 -11 | | | wet | | | 2.5/1) black, loose, wet, no odor, no staining. | FBP-H31A-10.5-11.0 |
| -12 | _ | | | | | | |
| | 5 | | | | | | FBP-H31A-12.5-13.0 |
| -14 - | | | | | | | FBP-H31A-14.7-15.2 |
| -15 | | 0.0 | wet | FILL | <u> </u> | CINDERS, some ash, little fine to medium sand, (7.5YR | FBP-H31A-15.2-15.7 |
| -16 - | | 0.0 | dry | PT | 1, 11, 11, 11 | \(\sigma. \)2.5/1) black, loose, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with | 1 BI -110 IA-10.2-10.7 |
| -17 - -18 | 5 | | | | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | MM. | |
| _ -19 | | | | | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1 | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PPG LOGS.GDT - 8/29/14 13:28

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FBP-I31A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610705.6

 Date Started Drilling:
 5/5/2014 7:47:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682708.4

Date Started Drilling:5/5/2014 7:47:00 AMRig Type:Coordinates (NJSPNAD83) y: 6Date Finished Drilling:5/5/2014 10:00:00 AMCore Size: 2.0 inBoring Total Depth: 20 ft

Logged By: ES Project Manager: Scott Mikaelian Depth to Water: NA Physical Location: Fishbein Elevation: 13.6 ft NAVD88 Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** dry fine to medium SAND, some ash, some cinders, little silty 0.0 FILL to sand, trace concrete, trace coal, (10YR 4/1) dark gray, FBP-I31A-1.0-1.5 moist medium dense to loose, dry to moist, no odor, no staining. 5 FBP-I31A-3.0-3.5 FBP-I31A-5.0-5.5 0.0 wet **FILL** ASH, with cinders, some silty sand, little fine to medium gravel, trace glass, (10YR 5/1) gray, loose, wet, no odor, no staining. FBP-I31A-7.0-7.5 5 FBP-I31A-9.0-9.5 0.0 wet **FILL** ASH, with cinders, some fine gravel, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. FBP-I31A-11.0-11.5 -13 FBP-I31A-13.0-13.5 NO RECOVERY NR 0.0 FBP-I31A-15.0-15.5 **FILL** CINDERS, with ash, little fine to medium silty sand, little to wet trace debris, (7.5YR 3/4) dark brown, loose, wet, no odor, no 0.0 staining. FBP-I31A-15.8-16.3 -16 moist **FILL** fine to medium silty SAND, little organics (grass), trace 0.0 dry FBP-I31A-16.3-16.8 PT cinders, trace debris, (5YR 4/3) reddish brown, soft, moist, 1/ 1/1/ 1 no odor, no staining. Appears to be Disturbed Native 5 Material. 11, 11, PEAT (degraded vegetated material), 80% organic fibers, -18 1/ 1/1/ 1 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM. 19 1/ 1/1/ 1 11, 11, 20

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/5/2014 10:05:00 AM

Boring ID: FBP-J31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610731.6

Rig Type:

Coordinates (NJSPNAD83) y: 682694.3

 Date Finished Drilling:
 5/5/2014 12:10:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: Fishbein Elevation: 13.8 ft NAVD88

| Depth | | | | | | (Note bgs = below ground surface) | | | |
|---|---------------------|--------------|---------------------|---------------------------------------|------------------|--|-----------------------|--|--|
| Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | |
| | | 0.0 | | ASPHALT | | ASPHALT | | | |
| -1- | | 0.0 | dry | FILL | | fine to medium SAND, some asphalt, little fine to medium gravel, (10YR 5/2) grayish brown, loose to medium dense, dry, no odor, no staining. | FBP-J31A-0.5-1.0 | | |
| | | 0.0 | dry | FILL | | fine to medium silty SAND, some COPR, (5YR 3/2) dark | FBP-J31A-1.5-2.0 | | |
| -2 | 5 | 0.0 | dry | FILL | | reddish brown, medium dense, dry, no odor, no staining. | | | |
| \Box | Ū | | | | | fine to medium SAND, some fine to medium gravel, little cinders, trace coal, (7.5YR 2.5/1) black, medium dense, dry, | | | |
| -3 | | | | | | no odor, no staining. | FBP-J31A-3.0-3.5 | | |
| \Box | | | | | | | | | |
| -4 | | | | | | | | | |
| | | | | | | | | | |
| -5- | | 0.0 | moist | FILL | | fine to medium SAND, with cinders, some ash, little debris, | FBP-J31A-5.0-5.5 | | |
| -6- | | | to wet | | | (10YR 4/2) dark grayish brown, medium dense to loose, moist to wet, no odor, no staining. | | | |
| ٠ _ | | | WCt | | | most to wet, no odor, no staining. | | | |
| | | | | | | | | | |
| | 5 | | | | | | FBP-J31A-7.0-7.5 | | |
| -8 | | | | | | | | | |
| ا ا | | | | | | | | | |
| -9 | | | | | | | | | |
| Ĭ | | | | | | | FBP-J31A-9.0-9.5 | | |
| 10 | | | | | | | | | |
| | | 0.0 | wet | FILL | | CINDERS, and ash, little silty sand, (10YR 4/1) dark gray, | | | |
| -11 | | | | | | medium dense, wet, no odor, no staining. | | | |
| `` | | | | | | | FBP-J31A-11.0-11.5 | | |
| -12 | | | | | | | | | |
| | 5 | | | | | | | | |
| -13 | | | | | | - | EDD 1044 40 0 40 5 | | |
| 4 | | | | | | | FBP-J31A-13.0-13.5 | | |
| -14 | | | | | | | | | |
| \dashv | | | | | | | | | |
| -15 | | 0.0 | wet | FILL | | CINDERS, with ash, some silty sand, trace brick, (10YR 3/1) | FBP-J31A-15.0-15.5 | | |
| \dashv | | 0.0 | wet | FILL | | very dark gray, medium dense, wet, no odor, no staining. | 1 DI -00174-10.0-10.0 | | |
| -16 | | | | | | | FBP-J31A-16.5-17.0 | | |
| \dashv | | 0.0 | moist | FILL | | SILT, little clay, trace fibers, trace wood debris, (10YR 5/2) | . 2. 00 10.0 10 | | |
| -17 | _ | 0.0 | dry | PT | <u> </u> | grayish brown, soft, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, | FBP-J31A-17.0-17.5 | | |
| _ + | 5 | | , | | <u> </u> | 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, | | | |
| -18 | | | | | <u> </u> | strong organic odor, no staining. Soils consistent with MM. | | | |
| ,, = | | | | | 1, 11, 1 | | | | |
| 19 | | | | | <u>\11, \11,</u> | | | | |
| 20 | | | | | / V/ V | | | | |
| 20 | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | 1 | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 5/1/2014 9:35:00 AM

Boring ID: FBP-K31A

Page: 1

732.564.3200 office telephone

Project Name: PPG Garfield Ave Drilling Company: SGS No.

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe
 Coordinates (NJSPI

Coordinates (NJSPNAD83) x: 610757.3 Coordinates (NJSPNAD83) y: 682682.0

Date Finished Drilling:5/1/2014 10:30:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:SSProject Manager:Scott MikaelianDepth to Water:NA

Rig Type:

Physical Location: Fishbein Elevation: 13.8 ft NAVD88

Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** moist fine to medium SAND, some medium gravel, little coal, 0.0 FILL (2.5YR 7/3) light reddish brown, loose, moist, no odor, no staining. 5 0.0 **FILL** moist COPR, some fine to medium sand, little fine to medium gravel, (2.5YR 2.5/4) dark reddish brown, loose, moist to to wet, no odor, no staining. wet 0.0 wet **FILL** CINDERS, and fine to medium sand, little medium gravel, (7.5YR 2.5/1) black, loose, wet, no odor, no staining. 0.0 **FILL** GGM CINDERS, little fine to medium silty sand, little fine wet 5 gravel, (5GY 6/2) light grayish green, loose, wet to saturated, to no odor, no staining. saturated 0.0 wet **FILL** GGM CINDERS, some fine to medium silty sand, (5GY 6/2) light grayish green, loose, wet, no odor, no staining. 5 -13 0.0 FILL GGM, and fine to medium silty sand, little cinders, little wet medium gravel, (5GY 6/2) light grayish green, loose, wet, no odor, no staining. -16 0.0 FBP-K31A-17.0-17.5 **FILL** SILT, little clay, (7.5YR 2.5/1) black, (5GY 6/2) light grayish moist 5 green, low plasticity, soft, moist, no odor, no staining. -18 FBP-K31A-18.3-18.8 0.0 FBP-K31A-18.8-19.3 19 OL UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR moist 4/1) dark gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDorg. 20

PPG LOGS.GDT - 8/29/14 13:28

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

30 Knightsbridge Road, Piscataway, NJ 08854 732,564,3200 office telephone

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.

Boring ID: ICO-11

 Project Name:
 PPG 10 West
 Drilling Company:
 SGS

 Project Number:
 60154801.0004.2
 Drilling Method:
 GeoProbe
 Coordinates (NJSPNAD83) x:
 610536.1

 Date Started Drilling:
 4/5/2012
 Rig Type:
 6610DT
 Coordinates (NJSPNAD83) y:
 682780.7

 Date Finished Drilling:
 4/5/2012
 Core Size:
 1.5 in
 Boring Total Depth:
 20 ft

 Logged By:
 M. Merdinger
 Project Manager:
 Robert Cataldo
 Depth to Water:
 5 ft

Physical Location: Outdoors Elevation: 14.7 ft NAVD88 (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) ASPHALT, (10YR 2/1) black, dense, dry , no odor pulverized CONCRETE, (N 8/) white, dense, dry , no odor 2 ASPHALT Dry ICO-B011-1.0 0 CONCRETE BORINGS Moist 0 FILL fine SAND, little coarse (SP) sand trace silt, (5YR 4/4) 2 reddish brown, dense, moist, no odor 0 ICO-B011-3.0 3 JERSEY/GARFIELD AVENUE GROUP OF SITES/10 WEST CINDERS, and ash little coal, (5YR 4/1) dark gray, loose, Moist 6 **FILL** Moist 6 FILL moist, no odor 4 **NO RECOVERY** 0 ICO-B011-5.0 5 2 Wet 6 FILL CINDERS, and ash little coal, (5YR 4/1) dark gray, loose, 6 wet, no odor ICO-B011-7.0 Wet 6 FILL NO RECOVERY 8 9 0 10 3.3 ICO-B011-10.0 **FILL** SILT, little interbedded silty very fine sand, (5YR 4/3) Moist 3 11 reddish brown, soft, moist, no odor 0 12 7 OL organic SILT, little roots, (7.5YR 3/2) dark brown, soft, moist Moist 0 13 EQUIS WORK/PPG , no odor SM Moist 8 very fine SAND, and silt, (10YR 5/1) gray, dense, moist, no 14 Moist 8 SM odor NO RECOVERY 15 3.3 Wet 8 SM very fine SAND, and silt, (10YR 5/1) gray, dense, wet, no 16 0 SETTINGS\STANCHAKM\MY DOCUMENTS\MY Moist 10 SM fine SAND, little fine to medium gravel and silt, (2.5YR 4/6) 17 red, dense, moist, no odor, angular 18 NO RECOVERY Moist 10 SM 19 20 End of boring at 20 ft. 21 22 23 24 STD US LAB.GDT - 5/7/12 11:12 - C:\DOCUMENTS AND 25 26 27 28 29 30 31 32 33 34 GINT

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: ICO-18**

Page: 1 Project Name: PPG 10 West Drilling Company: SGS **Project Number:** 60154801.0004.2 Drilling Method: GeoProbe Coordinates (NJSPNAD83) x: 610609.8 Date Started Drilling: 4/5/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682296.5 Date Finished Drilling: 4/5/2012 Core Size: 1.5 in Boring Total Depth: 20 ft Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 5 ft Physical Location: Outdoors Elevation: 11.4 ft NAVD88

| Physical | Location: | Outo | loors | | | | Elevation: 11.4 ft NAVD88 | |
|--|---------------------|--------------|---------------------|-----------|-----------------|----------------|---|------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | (Note bgs = below gro | Sample Number |
| 1 | 3.2 | 0 | Dry Dry to | 3 | ASPHALT FILL | | ASPHALT, and DGA, (10YR 2/1) black, dense, dry , no odor fine SAND, some fill material, (10YR 2/1) black, non plastic , loose, dry to moist , no odor, (brick, cinders, concrete, | ICO-B018-1.0 |
| 3 | | | Moist | | | | gravel) | ICO-B018-3.0 |
| 5 - 5 | 2.2 | 0 | Moist | 3 | FILL | | NO RECOVERY | ICO-B018-5.0 |
| 6 | | | Wet | 3 | FILL | | fine SAND, some fill material, (10YR 2/1) black, loose, wet , no odor, (brick, cinders, concrete, gravel) | |
| 8 -8 | | | Wet | 3 | FILL | | NO RECOVERY | ICO-B018-7.0 |
| 9 - | 2.5 | 0 | | | | | | ICO-B018-10.0 |
| 11 | 2.0 | 0 | Wet | 3 | FILL | | fine SAND, and crushed fill material, (7.5YR 4/4) brown, loose, wet , no odor, (ceramics, coal, cinders) | 100 0010-10.0 |
| 12 | | | Moist | 7 | PT | 1, 11, 11, 1 | organic silty CLAY, little phragmite roots, (10YR 5/2) grayish brown, firm, moist , moderate sulfur odor | |
| 13 - | | | Moist | 7 | PT | <u> </u> | NO RECOVERY | |
| 15 - | 0.5 | 0 | | | | <u> </u> | | |
| - 1 | | | Moist Moist | 8 | SM SM | | very fine SAND, trace silt, (10YR 6/1) gray, dense, moist , no odor NO RECOVERY | |
| 25 26 27 28 29 30 31 32 33 34 35 | :: No COPR/ | GGM ic | Jentified at t | his locat | tion. Sample | d on 4/6/12. | End of boring at 20 ft. | |

A.GDT - 2/1/21

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephon

Boring ID: P3BS-PDI-1+20-250R

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610692.0 Date Started Drilling: 9/18/2020 9:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682212.3 **Date Finished Drilling:** 9/18/2020 11:00:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Tarique Islam Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 10.9 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙD (ft/ft) (ppm) Content Log (ft bgs) 0.0 **ASPHALT** ASPHALT P3BS-PDI-1+20-250R-0-0.5 FILL fine to coarse SAND, some coarse gravel and angular rock, little silts, (5YR 4/3) reddish brown (7.5YR 4/2) brown, loose to medium dense, dry to moist, no odor, no staining P3BS-PDI-1+20-250R-2-2.5 5 fine to medium SAND, some coarse gravel and angular dry FILL rocks, little silt, trace slag, (5YR 4/3) reddish brown (7.5YR P3BS-PDI-1+20-250R-4-4.5 6/3) light brown, medium dense, dry to moist, no odor, no FILL staining moist fine to coarse SAND, some ash little fill debris (class 0.0 fragments), (2.5YR 5/4) reddish brown (7.5YR 4/2) brown, loose to medium dense, moist to wet, no odor, no staining P3BS-PDI-1+20-250R-6-6.5 **FILL** fine to medium SAND, some silt little coarse gravel, (5YR moist 4/3) reddish brown, medium dense, moist, no odor, no FILL moist fine to coarse SAND, some coal refuse little ash, trace fill 5 debris (gass fragments), (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining P3BS-PDI-1+20-250R-8-8.5 **FILL** fine to medium SAND, some silt trace ash, (7.5YR 4/2) moist brown, medium dense, moist, no odor, no staining FILL Algae green motttling observed fine to medium SAND, some moist silt trace ash, (7.5YR 4/2) brown, medium dense, moist, no **FILL** moist odor, no staining 0.0 fine to medium SAND, some coarse gravel and angular P3BS-PDI-1+20-250R-10-10.5 SP moist rocks, little silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining fine to medium SAND, some coarse gravel and and angular rocks, little silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining P3BS-PDI-1+20-250R-12-12.5 5 P3BS-PDI-1+20-250R-12.5-13 PT moist PEAT (degraded vegetated material) 13 1/ 1/1/ 1 <u>\\ \\ \\ \\ \\</u> 1/ <u>1/ 1</u> 11, 11, 0.0 moist OL organic SILT, trace organic fibers, (5Y 5/1) gray, soft, moist, strong organic odor, no staining 16 5 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: P3BS-PDI-1+50-220R

Page: 1 Coordinates (NJSPNAD83) x: 610675.9

Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Date Started Drilling: 9/15/2020 10:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682254.0 **Date Finished Drilling:** 9/15/2020 12:00:00 PM Core Size: 3 inch Boring Total Depth: 20 ft

| Logged By: Brendan Murphy Physical Location: 800 Garfield Avenue | | | | | | | Depth to Water: NA Surface Elevation: | : NA on: _11.2 ft NAVD88 | |
|--|---------------------|--------------|-----------|---------|--|--|--|-----------------------------|--|
| S41- | Recovery (ft/ft) | PID (ppm) | Moisture | USCS | Graphic Log | Surface Cover and Thicknes | | Sample ID | |
| | | 0.0 | | ASPHALT | | ASPHALT | | | |
| -1- <u>-</u> | | | moist | FILL | | fine to coarse SAND, trace fine to coarse gr COPR, medium dense, moist, no odor | | P3BS-PDI-1+50-220R-0-0.5 | |
| -2 - -3 | 5 | 5.6 | moist | FILL | | fine to coarse SAND, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining | P3BS-PDI-1+50-220R-2-2.5 | | |
| -4 | | | | | | | | P3BS-PDI-1+50-220R-4-4.5 | |
| -5 - -6 - | | | 5.6 moist | FILL | | fine to coarse SAND, little wood fragments t | to coarse SAND, little wood fragments trace fine gravel, | | |
| -7— - -8— - | 5 | | | | | no CCPW, slight sheen, (5YR 2.5/1) black, moist, no odor | medium dense, | P3BS-PDI-1+50-220R-8-8.5 | |
| -9 -10 | | | moist | FILL | | fine to coarse SAND, little fine to coarse gra (5YR 2.5/1) black, medium dense, moist, no staining | avel no CCPW, o odor, no | P3BS-PDI-1+50-220R-10-10. | |
| -11 -12 | | 0.0 | 0 | | | | | | |
| 13 - | 5 | | moist 0.0 | FILL | | fine to coarse SAND, trace fine to coarse grorganics, no CCPW, (7.5R 3/3) dusky red, brown, medium dense, moist, no odor, no s | d, (7.5YR 3/3) dark | P3BS-PDI-1+50-220R-12-12. | |
| 14— — 15— | | 0.0 | | | | | | P3BS-PDI-1+50-220R-14-14. | |
| _ -16 | | 0.0 | | | | | | P3BS-PDI-1+50-220R-16-16. | |
| -17 | 5 | | | | | | | | |
| -18 | | | | | | | | P3BS-PDI-1+50-220R-18-18. | |
| -19 | | | moist | PT | \(\partial \partial \par | PEAT (degraded vegetated material) | | P3BS-PDI-1+50-220R-18.5-19 | |

A.GDT - 2/1/21 13:13

2012-09 RA PPG LOGS

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P3BS-PDI-1+80-15R

Page: 1 Drilling Company: Cascade Coordinates (NJSPNAD83) x: 610505.6 Coordinates (NJSPNAD83) y: 682373.1

Project Number: 60635148 Drilling Method: Direct Push Date Started Drilling: 11/10/2020 8:00:00 AM Rig Type: Geoprobe **Date Finished Drilling:** <u>11/10/2020 9:0</u>0:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Depth to Water: 9.5 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Physical Location: 800 Garfield Avenue Surface Elevation: 15.6 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE CONCRETE, no staining P3BS-PDI-1+80-15R-0.5-1.0 dry **FILL** fine to coarse SAND, some fine to coarse gravel trace silt, trace fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining P3BS-PDI-1+80-15R-2.0-2.5 5 P3BS-PDI-1+80-15R-4.0-4.5 FILL medium to coarse SAND, little ash little fine to coarse gravel, moist trace fill debris, (7.5YR 3/1) very dark gray, medium dense, 0.0 moist, no odor, no staining P3BS-PDI-1+80-15R-6 0-6 5 5 P3BS-PDI-1+80-15R-8.0-8.5 SP wet fine to coarse SAND, some fine to coarse gravel, (5YR 4/2) dark reddish gray, loose, wet to saturated, no odor, no 0.0 P3BS-PDI-1+80-15R-10.0-10.5 staining P3BS-PDI-1+80-15R-12.0-12.5 5 13 fine to coarse SAND, some fine to coarse gravel, (5YR 4/2) wet dark reddish gray, medium dense, wet to saturated, no odor, P3BS-PDI-1+80-15R-14.0-14.5 no staining 0.0 16 P3BS-PDI-1+80-15R-16.0-16.5 5 fine to medium SAND, trace fine gravel, (5YR 4/4) reddish moist SP brown, medium dense, moist, no odor, no staining P3BS-PDI-1+80-15R-18.0-18.5 P3BS-PDI-1+80-15R-18.5-19.0 PT ペル ペル PEAT (degraded vegetated material) moist 1/ 1/1/ V 11, 11, bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: P3BS-PDI-1+90-50R

| Project Number: 60635148 Date Started Drilling: 11/9/2020 8:00:00 AM | | | | | | Orilling Method: Direct Push | NAD83) x: 610541.1 | |
|---|---------------------|--------------|---------------------|-----------------|----------------|--|---|--|
| | | | | | | Rig Type: Geoprobe | | NAD83) y: 682367.1 |
| | | | | 9:00:00 AM | | Core Size: 3 inch | Boring Total Depth: | |
| | d By: Bren | | | Wanus | | Project Manager: Cameron Dixon | Depth to Water: 14.9 Surface Elevation: | |
| | al Locatio | 11. 000 | Jai liela A | venue | | | Juliace Elevation: | 13.0 IL INAVD00 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| | | 0.0 | | CONCRETE | P & 4 P | CONCRETE, no staining | | |
| . 4 | | | dry | FILL | | fine to coarse SAND, some fine to coarse | e gravel trace fill | P3BS-PDI-1+90-50R-0.5-1.0 |
| -1 | | | ui y | 1122 | | debris, (5YR 3/2) dark reddish brown, me no odor, no staining | edium dense, dry, | |
| -2- | 5 | | | | | | | P3BS-PDI-1+90-50R-2.0-2.8 |
| -3 | | | | | | | | |
| | | | | | | | | |
| - | | | | | | | | P3BS-PDI-1+90-50R-4.0-4. |
| -5- | | 0.0 | | | | | | |
| | | | | | | | | |
| -6 | | | | | | | | P3BS-PDI-1+90-50R-6.0-6. |
| -7 | | | | | | | | |
| _ | . 5 | | | | | | | |
| -8- | | | | | | | | P3BS-PDI-1+90-50R-8.0-8. |
| \dashv | | | | | | | | |
| -9 | | | | | | | | |
| -10 | | | moist | FILL | | fine to coarse SAND, little fine to coarse (7.5YR 3/2) dark brown, medium dense, | | Dono PDI (co To |
| - | | 0.0 | | | | 10.0' | most to wot, wet at | P3BS-PDI-1+90-50R-10.0-10 |
| -11 - | | | | | | | | |
| -12 | _ | | | | | | | P3BS-PDI-1+90-50R-12.0-12 |
| + | 5 | | | | | | | |
| 13 | | | | | | | | |
| -14 | | | | | | | | Bono |
| | | | wet | FILL | | fine to coarse SAND, some fine to coarse (7.5YR 4/1) dark gray, medium dense, w | e gravel trace ash, et, no odor, no | P3BS-PDI-1+90-50R-14.0-14 |
| 15 | | 0.0 | moist | GM | | staining fine to coarse SAND, trace fine gravel tra | | - |
| - | | 5.0 | moist | GIVI | | reddish brown, medium dense, moist, no | odor, no staining | |
| -16 | | | | | 196 | | | P3BS-PDI-1+90-50R-16.0-16 |
| | | | | | BYK | | | |
| -17 | 5 | | | | 4.64 | | | |
| _10 | | | | | | | | |
| -18 | | | | | 46 | | | P3BS-PDI-1+90-50R-18.0-18 |
| -19 | | | moist | PT | <u> </u> | PEAT (degraded vegetated material) | | P3BS-PDI-1+90-50R-18.5-19 |
| _ | | | | | <u> </u> | | | |
| otes: | | | | <u> </u> | <u> </u> | | | |
| | low surface | arada | CODD abs | omite ore proce | accina ra | sidue UNDno - non-organic undisturbed native d | enosits MGP - man | ufactured gas plant |

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P3BS-PDI-2+05-30R

| Project Project | Number: | 60635 | 148 | | | Drilling Method: Direct Push | Coordinates (N.ISP | NAD83) x: 610533.9 | | | | | | | |
|---------------------------|--|--------------|----------------------|-----------------|--|--|---|-------------------------------|-----|-----|-----|--|--|--|--|
| | | | | 11:00:00 AM | | Rig Type: Geoprobe | - | NAD83) v: 682387.8 | | | | | | | |
| | | | | 20 12:00:00 PI | | Core Size: 3 inch | Boring Total Depth: | | | | | | | | |
| | By: Brei | | | LU 12.00.00 PI | | Project Manager: Cameron Dixon | Depth to Water: 15 | | | | | | | | |
| Logge0 | al Locatio | n. one | uipiiy Carfiala A | vonus | | rioject wanager. Cameron Dixon | - | | | | | | | | |
| rnysica | ai LUCALIO | 11. 000 | Jai liela A | venue | | | Surface Elevation: | IJ./ ILIVAVDOO | | | | | | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphio Log | Surface Cover and Thick | Surface Cover and Thickness: | | | | | | | | |
| | | 0.0 | | CONCRETE | P | CONCRETE, no staining | | | | | | | | | |
| - 1 | dry FILL medium to coarse SAND, some fine to coarse gravel trace fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining | | | | | | | P3BS-PDI-2+05-30R-0.5-1.0 | | | | | | | |
| -2 - -3 | 5 | 5 | | | | | | P3BS-PDI-2+05-30R-2.0-2.5 | | | | | | | |
| -4 -4 | | · | dni | FILL | | fine to copy CAND trace fine ground (| EVD 4(4) roddiob | P3BS-PDI-2+05-30R-4.0-4.5 | | | | | | | |
| -5 | | 0.0 | dry | FILL | | fine to coarse SAND, trace fine gravel, (abrown, medium dense, dry to moist, no define the common of | otr 4/4) readish odor, no staining | | | | | | | | |
| -7 | 5 | | | | | | | P3BS-PDI-2+05-30R-6.0-6.5 | | | | | | | |
| -8 | 3 | ٠ | moist | FILL | | fine to coarse SAND, some fine to coarse debris, (7.5YR 4/1) dark gray, medium do no odor, no staining | | P3BS-PDI-2+05-30R-8.0-8.5 | | | | | | | |
| 9 -10 | | 0.0 | 0.0 | | | | | P3BS-PDI-2+05-30R-10.0-10 | | | | | | | |
| -11 -12 | | | | 0.0 | 0.0 | 0.0 | 0.0 | U.U | 0.0 | 0.0 | 0.0 | | | | |
| _ -13 | 5 | | | | | | | - SBS-F BF2103-00(V12.0-12 | | | | | | | |
| -14 - -15 | | | moist | SP-SM | | fine to medium SAND, little silt, trace clabrown, medium dense, moist, no odor, n | io staining | P3BS-PDI-2+05-30R-14.0-14 | | | | | | | |
| 15 - -16 - | | 0.0 | wet | SP | | fine to medium SAND, little coarse sand little silt, (7.5YR 4/1) dark gray, soft to mo odor, no staining | little fine gravel, nedium dense, wet, | P3BS-PDI-2+05-30R-16.0-16 | | | | | | | |
| _17 | | | | | | | | P3BS-PDI-2+05-30R-17.0-17 | | | | | | | |
| _ _18 | 5 | | moist | PT | <u> </u> | TEAT (degraded vegetated material) | | P3BS-PDI-2+05-30R-17.5-18 | | | | | | | |
| _ _19 _ | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | N | | | | | | | | | |
| Notes: as - bel | low surface | grade | COPR - chr | omite ore proce | essina re | ऽ esidue UNDno - non-organic undisturbed native । | deposits MGP - man | ufactured gas plant | | | | | | | |
| | adow mat | | | n grey mud | 9 10 | UNDorg - organic undisturbed native depo | osits CCPW - ch | romate chemical production wa | | | | | | | |

A.GDT - 2/1/21

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-2+05-65R

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610571.6 Date Started Drilling: 11/6/2020 11:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682370.4 **Date Finished Drilling:** <u>11/6/2020 12:0</u>0:00 PM Core Size: 3 inch Boring Total Depth: 20 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 15.6 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE CONCRETE, no staining P3BS-PDI-2+05-65R-0.5-1.0 dry **FILL** fine to coarse SAND, some fine gravel little coarse gravel, fill debris, (5YR 3/4) dark reddish brown, medium dense, dry to moist, no odor, no staining P3BS-PDI-2+05-65R-2.0-2.5 5 NA CONCRETE CONCRETE, no staining P3BS-PDI-2+05-65R-4.0-4.5 moist FILL fine to coarse SAND, little fine to coarse gravel fill debris. (7.5YR 3/2) dark brown, medium dense, moist, no odor, no 0.0 P3BS-PDI-2+05-65R-6 0-6 5 5 fine to coarse SAND, little fine gravel trace coarse gravel, moist FILL trace silt, (5YR 6/4) light reddish brown, medium dense, P3BS-PDI-2+05-65R-8.0-8.5 moist to wet, no odor, no staining 0.0 P3BS-PDI-2+05-65R-10.0-10.5 P3BS-PDI-2+05-65R-12.0-12.5 5 P3BS-PDI-2+05-65R-14.0-14.5 P3BS-PDI-2+05-65R-15.0-15.5 0.0 moist **FILL** fine to coarse SAND, little fine gravel little silt, (5YR 2.5/1) black, medium dense, moist to wet, no odor, no staining P3BS-PDI-2+05-65R-15.5-16.0 РТ PEAT (degraded vegetated material) 16 1, 11, 11/ 11/ 1/ 1/ V 5 1, 11, 1 11, 11, 1/ 1// 1 11/ 11/ bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

A.GDT - 4/13/22

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-2+10-130R

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610630.5 Date Started Drilling: 9/16/2020 8:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682360.4 Date Finished Drilling: 9/16/2020 10:00:00 AM Core Size: Boring Total Depth: 20 ft Project Manager: Depth to Water: **Logged By:** B Murphy Surface Elevation: 12.6 ft NAVD88 Physical Location: Depth PID Recovery Moisture Graphic Sample USCS Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 5 0.7 **ASPHALT ASPHALT** @3-4 fine to coarse GRAVEL, little fine to coarse sand, (5YR 4/1) dry **FILL** dark gray, loose, dry, no odor, no staining CONCRETE, no staining CONCRETE moist FILL fine to coarse SAND, little fine gravel trace coarse gravel, fill debris, (5YR 2.5/1) black, loose to medium dense, moist, slight petroleum odor, P3BS-PDI-2+10-130R-4.1-4.6 0.3 FILL moist fine to coarse SAND, (2.5YR 4/3) reddish brown, medium dense, moist, no odor, no staining fine to coarse SAND, little ash, (5YR 4/1) dark gray, loose, FILL moist P3BS-PDI-2+10-130R-6.1-6.6 FILL moist moist, no odor, no staining fine to coarse SAND, little fine gravel trace ash, filldebris (glass, ceramics), (5YR 4/1) dark gray, medium dense, moist, no odor, no staining P3BS-PDI-2+10-130R-8 1-8 6 0.0 P3BS-PDI-2+10-130R-10.1-10.6 moist **FILL** fine SAND, little silt trace organics, (5YR 4/1) dark gray, medium stiff, moist, no odor, no staining fine to coarse SAND, little fine gravel trace ash, fill debris, moist FILL (5YR 4/1) dark gray, medium dense, moist, no odor, no staining 0.0 PT PEAT (degraded vegetated material) 12 <u>21/ 2</u> 11, 11, 1/ 1/1/ 1 <u>\\\</u> \\\ 1/ 1/1/ MGP - manufactured gas plant CCPW - chromate chemical production waste bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits GGM - green grey mud

Boring ID: P3BS-PDI-2+20-50R

| Project | Name: F | PPG Ga | rfield Ave | | | Drilling Company: Summit | | Page: |
|----------------------------|------------------------|--------------|---------------------|--------------------------------|----------------|---|---------------------------------------|--|
| | Number: | | | | | Drilling Method: Direct Push | Coordinates (NJSP | NAD83) x: 610555.1 |
| | | | | 11:00:00 AM | | Rig Type: Geoprobe | | NAD83) y: 682395.0 |
| | | | |) 12:00:00 PM | | Core Size: 3 inch | Boring Total Depth: | |
| | By: Bre | | | | | Project Manager: Cameron Dixon | Depth to Water: 10 t | |
| | | | Garfield A | venue | | | Surface Elevation: | |
| | | | 2411101412 | | | | | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphio Log | Surface Cover and Thickness: | | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 | CONCRETE, no staining | | |
| | | | dry | FILL | | fine to coarse SAND, some fine to coarse | a gravel trace fill | P3BS-PDI-2+20-50R-0.5-1.0 |
| -1- -2- | | | ury | 1 ILL | | debris, (7.5YR 2.5/2) very dark brown, de dense, dry, no odor, no staining | | P3BS-PDI-2+20-50R-2.0-2.5 |
| - | 5 | | | | XXX | 8 | | |
| -3- | | | dry | FILL | | fine to coarse SAND, little ash little fine to trace fill debris, (7.5YR 4/1) dark gray, m no odor, no staining | o coarse gravel, edium dense, dry, | |
| -4- | | | | | XXX | 8 | | P3BS-PDI-2+20-50R-4.0-4.5 |
| - | | | dn. | FILL | XXX | fine to coarse SAND little fine to asset | gravel (EVP 4/2) | |
| -5- | | 0.0 | dry | FILL | | fine to coarse SAND, little fine to coarse reddish brown, medium dense, dry to mo staining | | |
| -6 | | | | | | | | P3BS-PDI-2+20-50R-6.0-6. |
| -7 | 5 | | | | | | | |
| -8 | | | | | | | | P3BS-PDI-2+20-50R-8.0-8. |
| -9 | | | | | | | | |
| -10 - -11 | | 0.0 | saturated | FILL | | fine to coarse SAND, little fine to coarse (5YR 3/1) very dark gray (7.5YR 4/1) dar saturated, no odor, no staining | gravel little silt, k gray, loose, | P3BS-PDI-2+20-50R-10.0-10 |
| -12 - -13 | 5 | | | | | | | P3BS-PDI-2+20-50R-12.0-12 |
| 4 | | | saturated | FILL | | fine to coarse SAND, some fine to coarse | aravel little fill | |
| -14 - -15 | | | Jacaratou | I ILL | | debris, (5YR 2.5/1) black, loose to mediu to wet, no odor, no staining | | P3BS-PDI-2+20-50R-14.0-14 |
| -16 | | 0.0 | | | | | | P3BS-PDI-2+20-50R-16.0-16 |
| _ -17 - | 5 | | moist | FILL | | medium to coarse SAND, trace fine to co 6/2) pale red, (5YR 4/3) reddish brown, n moist, no odor, no staining | | |
| -18 | | | | | | | | P3BS-PDI-2+20-50R-18.0-18 |
| | | | moist | PT | | TEAT (degraded vegetated material) | | P3BS-PDI-2+20-50R-18.5-19 |
| lotes: | | | | | | 1 | | <u> </u> |
| | ow surface adow mat | | | omite ore proce on grey mud | essing re | esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | | ufactured gas plant romate chemical production wa |
| | | | | | | | | |

Boring ID: P3BS-PDI-2+40-80R

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610591.4 Date Started Drilling: 11/6/2020 8:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682397.2 Date Finished Drilling: 11/6/2020 9:00:00 AM Core Size: 3 inch Boring Total Depth: 20 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 15.4 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE CONCRETE, no staining P3BS-PDI-2+40-80R-0.5-1.0 dry **FILL** fine to coarse GRAVEL, some fine to coarse sand, (5YR 3/1) very dark gray, loose, dry, no odor, no staining P3BS-PDI-2+40-80R-2.0-2.5 5 P3BS-PDI-2+40-80R-4.0-4.5 0.0 CONCRETE CONCRETE, no staining NA FILL fine to coarse SAND, some fine to coarse gravel, trace fill saturated debris (lumber fragments), (7.5YR 7/1) light gray, dense to P3RS-PDI-2+40-80R-6 0-6 5 medium dense, saturated to wet, no odor, no staining, Wet 5 P3BS-PDI-2+40-80R-8.0-8.5 0.0 P3BS-PDI-2+40-80R-10.0-10.5 P3BS-PDI-2+40-80R-12.0-12.5 5 P3BS-PDI-2+40-80R-14.0-14.5 FILL moist fine to coarse SAND, some fine to coarse gravel little fill 0.0 debris, lumber fragments, (5YR 3/3) dark reddish brown, medium dense to loose, moist to wet, no odor, no staining 16 P3BS-PDI-2+40-80R-16.0-16.5 A.GDT - 2/1/21 5 P3BS-PDI-2+40-80R-17.5-18.0 P3BS-PDI-2+40-80R-18.0-18.5 moist PT PEAT (degraded vegetated material), 80% silt, 20% organic 2012-09 RA PPG LOGS fibers, low plasticity soft, moist no odor no staining 11/ 11/

UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade COPR - chromite ore processing residue MM - meadow mat GGM - green grey mud GGM - green grey mud

11/

Boring ID: P3BS-PDI-2+40-140R

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610648.2 Date Started Drilling: <u>11/5/2020 12:00:</u>00 PM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682378.1 Date Finished Drilling: 11/5/2020 1:00:00 PM Core Size: 3 inch Boring Total Depth: 20 ft

| <u>ogged</u> | By: Bren | ndan Mı | urphy | | <u> </u> F | Project Manager: Cameron Dixon | Depth to Water: 12.5 | | | |
|--------------------------|------------------------|--------------|---------------------|------------------|----------------|---|---|---|--|--|
| hysica | al Locatio | n: 800 | Garfield A | venue | | | Surface Elevation: | 15.1 ft NAVD88 | | |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | kness: | Sample ID | | |
| | | 0.0 | | CONCRETE | P 1 4 F | CONCRETE, no staining | | | | |
| -1 - | | | dry | FILL | | coarse SAND, some fine to coarse grav brick fragments, (5YR 3/4) dark reddish dense, dry, no odor, no staining | el little fill debris, brown, medium | P3BS-PDI-2+40-140R-0.5-1.0 | | |
| -2— - -3— - | 5 | | | | | | | P3BS-PDI-2+40-140R-2.0-2.5 | | |
| -4 | | 0.1 | | | | | | P3BS-PDI-2+40-140R-4.0-4.5 | | |
| - | | | | | \bowtie | | | | | |
| -6 -7 | 5 | | | | | | | P3BS-PDI-2+40-140R-6.0-6.8 | | |
| ┪ | 3 | | | | | | | | | |
| -8- | | | | | \bowtie | | | P3BS-PDI-2+40-140R-8.0-8.5 | | |
| -9 | | | moist | FILL | | fine to coarse SAND, some ash little fine trace fill debris, (7.5YR 4/1) dark gray, r to wet, no odor, no staining, wet at 12.5 | nedium dense, moist | | | |
| 11— | | 0.8 | | | | | | P3BS-PDI-2+40-140R-10.0-10 | | |
| 12— - 13— - | 5 | | | | | | | P3BS-PDI-2+40-140R-12.0-12 | | |
| 14— | | | | | | | | P3BS-PDI-2+40-140R-14.0-14 | | |
| _ | | | | | | | | | | |
| 15 | | 0.0 | | | | | | | | |
| 16 — - 17— | | | | | | | | P3BS-PDI-2+40-140R-16.0-16 | | |
| 4 | 5 | | | | | | | P3BS-PDI-2+40-140R-17.5-18 | | |
| 18- | | | | | | LINID 1.40 01.011 7 11111 5 | | P3BS-PDI-2+40-140R-17.5-16 | | |
| - 19 | | | moist | ML | | UND at 18.0' SILT, little fine sands, trac (UNDno), (5YR 3/1) very dark gray, soft odor, no staining | e organc fibers t, moist to wet, no | P353-PUF2+4U-14UK-18.0-18 | | |
| otes: | | | | I | | | | 1 | | |
| is - belo | ow surface adow mat | grade | COPR - chr | romite ore proce | essing res | sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep | deposits MGP - manu | ufactured gas plant romate chemical production was | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-2+70-145R

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610662.9 Date Started Drilling: 9/17/2020 9:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682395.9 Date Finished Drilling: 9/17/2020 10:00:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Project Manager: Cameron Dixon Depth to Water: NA **Logged By:** Brendan Murphy

| | | n: 800 | Garfield A | venue | 1 1 | 14.7 ft NAVD88 | |
|----------------------------|---------------------|--------------|---------------------|-------|--|--|------------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 | | 0.0 | dry | FILL | | fine to coarse SAND, trace fine gravel trace fill debris (brick and glass fragments), (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining | P3BS-PDI-2+70-145R-0-0.5 |
| -3- | 5 | | | | | | P3BS-PDI-2+70-145R-2-2.5 |
| | | | dry | FILL | | fine to coarse SAND, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining | |
| -4 5 | | 0.0 | dry | FILL | | fine to coarse SAND, little fine gravel trace coarse gravel, (2.5YR 5/4) reddish brown, medium dense, dry to moist, no odor, no staining | P3BS-PDI-2+70-145R-4-4.5 |
| -6- | | | | | | | P3BS-PDI-2+70-145R-6-6.5 |
| -7 | 5 | | moist | FILL | | fine to coarse SAND, trace fine gravel trace wood frgaments, fill debris, (5YR 2.5/1) black, medium dense, moist, no odor, no staining | |
| -8 - | | | moist | FILL | | fine to coarse SAND, trace fine to coarse gravel trace fill debris, (5YR 4/1) dark gray, medium dense, moist, no odor, no staining | P3BS-PDI-2+70-145R-8-8.5 |
| 9 10 | | 1.1 | moist | FILL | | fine to coarse SAND, little ash little fine to coarse gravel, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining | P3BS-PDI-2+70-145R-10-10.5 |
| -11 - | | | | | | | |
| -12 - -13 | 5 | | | | | | P3BS-PDI-2+70-145R-12-12.5 |
| -14 - -15 | | 0.0 | | | | | P3BS-PDI-2+70-145R-14-14.5 |
| -16 -17 | | | | | | | P3BS-PDI-2+70-145R-16-16.5 |
| " - | 5 | | | | | | P3BS-PDI-2+70-145R-17.5-18.0 |
| -18 - - | | | moist | PT | \(\frac{1}{2}\frac{1}{ | PEAT (degraded vegetated material) | P3BS-PDI-2+70-145R-18.0-18.5 |
| -19 | | | | | <u> </u> | | |
| lotes: | | | | | | | |

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P3BS-PDI-3+00-160R

| Project Name: | PPG G | arfield Ave | | li | Drilling Company: Summit | | Page: |
|--|--------------|---------------------|----------|----------------|---|---|--|
| Project Number: | | | | | Drilling Method: Direct Push | Coordinates (NJSP) | NAD83) x: 610690 1 |
| ate Started Dri | | | NA OO:OO | | Rig Type: Geoprobe | Coordinates (NJSPN | |
| ate Started Dri | | | | | Core Size: 3 inch | Boring Total Depth: | |
| ogged By: Bre | | | <u> </u> | | Project Manager: Cameron Dixon | Depth to Water: NA | |
| hysical Location | | | venue | | | Surface Elevation: | |
| Depth Range ft bgs) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | | Sample ID |
| -1 | 0.0 | dry | FILL | | fine to coarse SAND, trace fine to coarse debris (concrete birck fragments), (5YR 4 medium dense, dry, no odor, no staining | gravel trace fill /3) reddish brown, | |
| -5 - -6 - -7 | 0.0 | moist | FILL | | fine to medium SAND, trace fine gravel, (| 5VD 2 5/1) black | P3BS-PDI-3+00-160R-6.0-6.5 |
| -8 -9 | | moist | | | medium dense, moist, no odor, no stainin | g | P3BS-PDI-3+00-160R-8.0-8.5 |
| -10 | 1.1 | moist | FILL | | fine to coarse SAND, some fine gravel tra (glass, ceramics), (5YR 4/1) dark gray, lo no odor, no staining | ose, moist to wet, | |
| -14 | 0.0 | moist to wet | FILL | | fine to coarse SAND, trace fine to coarse dark gray, medium dense,, no odor, no st | | |
| -16 | | | | | | | P3BS-PDI-3+00-160R-16.0-16. |
| | | | | | | | |
| Notes: ogs - below surface MM - meadow mat | grade | COPR - chro | | essing re | sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | eposits MGP - manu sits CCPW - chr | l ufactured gas plant romate chemical production was |
| comments: | | | | | | | |

Boring ID: P3BS-PDI-3+30-155R

| Proiect | Name: F | PPG Ga | rfield Ave | | | Drilling Company: B&B Drilling, Inc. | | Page: | |
|-----------------|---------------------|--------------|---------------------|---------------|---------------|---|---|--------------------------------|--|
| | Number: | | | | | Drilling Method: Direct Push | Coordinates (NJSP | NAD83) x: 610698.5 | |
| | | | | 2:15:00 PM | | Rig Type: | NAD83) y: 682444.4 | | |
| | | | | 12:50:00 PM | | Core Size: | Boring Total Depth: | | |
| | By: BM | | | | | Project Manager: | Depth to Water: | | |
| | al Locatio | | | | | | Surface Elevation: | 14.7 ft NAVD88 | |
| Donth | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and T | hickness: | Sample ID | |
| | 5 | 0.0 | dry | FILL | | fine to coarse SAND, little fine grave debris (brick fragments, glass), (5YF dense, dry, no odor, no staining | el trace coarse gravel, fill R 4/3) reddish brown, | | |
| | | | dry | FILL | | fine to coarse SAND, little fine grave | l (5YR 5/1) grav | _ | |
| -4- | | | - | | | medium dense, dry, no odor, green s | staining / | _ | |
| - 4 | | | dry | FILL | | fine to coarse SAND, little fine grave | l trace coarse gravel, fill | | |
| -5- | 5 | | | | | debris, (5YR 4/3) reddish brown, dei | nse, dry to moist, no | | |
| J | | 0.0 | | | | odor, no staining | | | |
| _ | | | | | | Ä | | P3BS-PDI-3+30-155R-5.7-6.2 | |
| -6- | | | | | | × | | 1 050 1 51-0 100-10011-0.7-0.2 | |
| - 4 | | | | | \bowtie | Ä | | | |
| _7— | | | | | \otimes | 2005 | 1 (E) (D 4(4) : : | 4 | |
| | | | moist | FILL | \bowtie | fine to coarse SAND, little fine grave | l, (5YR 4/1) dark gray, | P3BS-PDI-3+30-155R-7.2-7.7 | |
| | | | | | | medium dense, moist, slight petrolet | um odor, no staining | | |
| -8- | | | | | | | | | |
| - 4 | | | | | \bowtie | | | | |
| −9 — | | | | | \bowtie | 8 | | | |
| . 4 | | | | | | 8 | | P3BS-PDI-3+30-155R-9.2-9.7 | |
| -10 | 5 | | | | | 8 | | | |
| -10 | | 0.0 | | | \bowtie | 8 | | | |
| . 4 | | | | | \bowtie | 8 | | | |
| -11 | | | moist | FILL | | fine to coarse SAND, little fine to coa | arse gravel trace ash fill | Dane Bala : 00 1555 11 5 11 | |
| . 4 | | | 1113131 | | | debris, (5YR 4/1) dark gray, medium | dense, moist, no odor | P3BS-PDI-3+30-155R-11.2-11 | |
| -12 | | | | | XXXX | no staining | | 4 | |
| | | | | | | | | | |
| _13 | | | | | | | | | |
| 13 | | | | | | | | | |
| · 7 | | | | | | | | | |
| -14 | | | | | | | | | |
| | | | | | | | | | |
| -15 | 5 | 0.0 | | | | | | | |
| | | 0.0 | | | | | | | |
| -16 | | | | | | | | | |
| 10 | | | | | | | | | |
| ٦, | | | | | | | | | |
| -17 | | | | | | | | | |
| - 4 | | | | | | | | | |
| -18 | | | | | | | | | |
| | | | | | | | | | |
| 19 | | | | | | | | | |
| 19 | | | | | | | | | |
| - 1 | | | | | | | | | |
| -20- | | | | | + | 1 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Notes: | | | | | 1 | | | I | |
| gs - bel | | | | mite ore proc | essing r | esidue UNDno - non-organic undisturbed na | tive deposits MGP - man | ufactured gas plant | |
| | adow mat | | GGM - greer | n grey mud | | UNDorg - organic undisturbed native | deposits CCPW - ch | romate chemical production wa | |
| omments: | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-3+90-120R

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610695.3 Date Started Drilling: 11/5/2020 9:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682515.3 Date Finished Drilling: 11/5/2020 9:35:00 AM Core Size: 3 inch Boring Total Depth: 20 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Depth to Water: Physical Location: 800 Garfield Avenue Surface Elevation: 15.0 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.4 CONCRETE CONCRETE, no staining dry **FILL** fine to coarse SAND, little fine to coarse gravel trace fill debris (glass, ceramics, brick), trace COPR (2%), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist, no 5 **FILL** fine to coarse SAND, little fine to coarse gravel little fill dry debris, trace COPR (2%), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist, slight petroleum odor P3BS-PDI-3+90-120R-4.5-5.0 0.7 FILL CONCRETE, little fine to coarse sand, loose, dry, no odor, dry green staining fine to coarse SAND, little fine to coarse gravel trace fill FILL dry debris, trace COPR (1%), medium dense, dry to moist strong petroleum odor P3BS-PDI-3+90-120R-6.5-7.0 5 P3BS-PDI-3+90-120R-8.5-9.0 0.8 **FILL** fine to coarse SAND, little fine to coarse gravel trace fil dry debris, (7.5YR 3/2) dark brown, medium dense, moist, P3BS-PDI-3+90-120R-10.5-11.0 no odor, no staining 5 P3BS-PDI-3+90-120R-12.5-13.0 0.8 16 5

2012-09 RA PPG LOGS

A.GDT - 2/1/21

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

Boring ID: P3BS-PDI-4+20-100R

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610687.4 Date Started Drilling: 11/4/2020 9:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682548.2 Date Finished Drilling: 11/4/2020 9:30:00 AM Core Size: 3 inch Boring Total Depth: 20.5 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 15.0 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 4.6 CONCRETE CONCRETE, no staining dry **FILL** fine to medium SAND, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining, sub-slab leveling sand fine to coarse SAND, little fine to coarse gravel trace fill P3BS-PDI-4+20-100R-0 8-1 3 FILL dry debris, trace COPR, (2.5Y 2.5/1) black (5Y 2.5/1) black, medium dense, dry, no odor, 3% COPR nodules P3BS-PDI-4+20-100R-2.0-2.5 5 P3BS-PDI-4+20-100R-4.0-4.5 0.0 FILL fine to coarse SAND, little fine gravel trace coarse gravel, fill dry debris, medium dense, dry to moist, no odor, no staining P3BS-PDI-4+20-100R-6 0-6 5 5 P3BS-PDI-4+20-100R-8.0-8.5 **FILL GGM** moist 0.0 P3BS-PDI-4+20-100R-10.0-10.5 **FILL** fine to coarse SAND, little ash little fine to coarse gravel, moist trace fill debris, (7.5YR 3/1) very dark gray, medium dense, moist wet, no odor, no staining, wet at 12.0', slight petroleum odor at 10-10.5' P3BS-PDI-4+20-100R-12.0-12.5 5 13 P3BS-PDI-4+20-100R-14.0-14.5 0.0 16 P3BS-PDI-4+20-100R-16.0-16.5 5 P3BS-PDI-4+20-100R-18.0-18.5 fine to coarse SAND, little fine gravel trace coarse gravel moist **FILL** trace fill debris, (7.5YR 2.5/2) very dark brown, medium dense, moist to wet, no odor, no staining, petroleum odor at19-20'

2012-09 RA PPG LOGS

A.GDT - 2/1/21

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits GGM - green grey mud

Boring ID: P3BS-PDI-4+20-100R

Page: 2

| Project | Name: F | PG Ga | rfield Ave | | | Drilling Company: | Cascade | | |
|----------------------------|---------------------|--------------|---------------------|-------------|----------------|-------------------|---|-----------------------|---|
| Project | Number: | 60635 | 148 | | | Drilling Method: | Direct Push | Coordinates (NJSPN | IAD83) x: 610687.4 |
| | | | | 9:00:00 AM | | Rig Type: Geopro | | Coordinates (NJSPN | |
| Date Fi | nished Dr | illina: | 11/4/2020 | 9:30:00 AM | | Core Size: 3 inch | | Boring Total Depth: | |
| | By: Brer | | | 2.00.007441 | | Project Manager: | | Depth to Water: NA | |
| Physic | al Locatio | 1. | шрпу | | | roject manager. | | Surface Elevation: 15 | Σ Ω ft NΔ\/D88 |
| | ai Locatio | | | | | | • | pullace Lievation. | 5.0 IT NAVDOO |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thickn | ess: | Sample ID |
| | | | | | | 3 | | | P3BS-PDI-4+20-100R-20.0-20.5 |
| Notes: | | | | | | | | | |
| MM - me | adow mat | J | GGM - gree | n grey mud | 9 | UNDorg - org | organic undisturbed native de anic undisturbed native depos | sits CCPW - chr | factured gas plant omate chemical production waste |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/1/21 13:13

Boring ID: P3BS-PDI-4+50-70R

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610676.7 Date Started Drilling: 11/3/2020 1:10:00 PM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682585.5

| | | | | 1:25:00 PM | | Core Size: 3 inch | Boring Total Depth: | |
|---------------------------|--------------------------|--------------|---------------------|---------------------------------|---------------|---|--|--|
| Logged | l By: Brei al Locatio | ndan M | urphy Corfield (| N. CORLLO | | Project Manager: Cameron Dixon | Depth to Water: 8.0 | |
| Pnysica | ai Locatio | n: 800 | Garrieid <i>F</i> | venue | | | Surface Elevation: | 14.9 IT NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and 1 | hickness: | Sample ID |
| | | | | CONCRETE | P & 4 | CONCRETE, no staining | | |
| | | | dry | FILL | | fine to coarse SAND, little fine to coa | arse gravel trace fill | |
| -1 | | | | | XXX | debris, (7.5YR 2.5/1) black, medium odor, no staining | dense, dry to moist, no | |
| - | | | | | XXX | odor, no stairing | | |
| -2- | | | | | XXX | | | |
| \dashv | 5 | | | | XXX | | | |
| -3 | | | | | XXX | | | |
| \dashv | | | | | XXX | | | |
| -4 | | | | | \ggg | | | |
| 4 | | | | FUL | | | | |
| -5- | | | moist | FILL | XXX | fine to coarse SAND, with ash little f trace fill debris, (7.5YR 4/1) dark gra | ine to coarse gravei, ay, medium dense, moist | |
| 4 | | | | | XXX | to wet, no odor, no staining, water at | 8.0' | |
| -6 | | | | | XXX | | | |
| _ | | | | | XXX | | | |
| -7- | | | | | XXX | | | |
| _ | 5 | | | | XXX | | | |
| -8- | | | | | XXX | | | |
| | | | | | XXX | | | |
| -9 | | | | | XXX | | | |
| | | | | | | | | |
| -10 | | | | | XXX | | | |
| | | | | | XXX | | | P3BS-PDI-4+50-70R-10.4-10 |
| _11 | | | | | XXX | | | |
| `` _ | | | | | XXX | | | |
| -12 | | | | | XXX | | | |
| ' | 5 | | | | XXX | | | |
| -13 | | | | | XXX | | | |
| | | | | | XXX | | | |
| -14 | | | | | \ggg | | | |
| ' _ | | | | | XXX | | | P3BS-PDI-4+50-70R-14.4-14 |
| -15 | | | | | \ggg | | | 1 350-F DF4+30-70R-14.4-14 |
| 'S _ | | | | | XXX | | | |
| _16 | | | | | \ggg | | | |
| -16 | | | | | XXX | | | |
| _17 | | | | | \ggg | | | |
| '' | 5 | | | | XXX | | | |
| _10_ | | | | | \ggg | | | |
| -18 | | | | | XXX | | | |
| | | | | | \ggg | | | |
| _19 | | | | | XXX | | | |
| ٦ | | | | | \ggg | | | |
| lotes: | ow surface | arado | COPP abo | romite ore press | eeina r | sidue LINDno - non organic undicturbed no | tive denocits MCD man | ufactured assistant |
| 40 - NGI | ow surrace | graut | OOFIX - CIII | romite ore proce en grey mud | Journal I | sidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native | ine dehosita Migh - Illali | ufactured gas plant romate chemical production wa |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/1/21 13:13

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P3BS-PDI-4+50-70R

| | 702.004.02 | | | | | I | | Page: 2 |
|---------------------------------------|--------------------------|--------------|--------------------------|----------------|---------------|---|------------------------------------|---|
| | t Name: F | | | | | Drilling Company: Cascade | | |
| | t Number: | | | 4 40 00 514 | | Drilling Method: Direct Push | | NAD83) x: 610676.7 |
| Date S | tarted Dril | ling: | 11/3/2020 | 1:10:00 PM | | Rig Type: Geoprobe | | IAD83) y: 682585.5 |
| | | | | 1:25:00 PM | | Core Size: 3 inch | Boring Total Depth: | 25 π |
| | d By: Bre | | | | | Project Manager: Cameron Dixon | Depth to Water: Surface Elevation: | 14.0 ft NIAV/D00 |
| _ | ai Locatio | 11. 600 | Garrieiu P | wenue | | 1 | Surface Elevation. | 14.9 IL NAVD66 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | c Surface Cover and Thick | kness: | Sample ID |
| | | | | | XXX | X | | |
| | 1 | | moist | PT | <u> </u> | PEAT (degraded vegetated material) | | 1 |
| 21 | 1 | | IIIOISt | | 1, 11, | | | |
| | | | | | 1 | | | |
| | | | | | 71/2/1/ | | | |
| 22 | 1 | | | | 1/ 1/1/ | | | |
| | + | | | | 71/ 71 | <u> </u> | | |
| -23 | 1 | | | | 1, 11, | <u> </u> | | |
| | | | | | 71/ 71 | | | |
| | | | | | 1/ 1// | | | |
| 24 | 1 | | | | 1 | | | |
| | 1 | | | | <u> </u> | | | |
| -25 | | | | | 1, 11, | <u> </u> | | |
| | | | | | | | | |
| lotes: gs - be //// - me | low surface eadow mat | grade | COPR - chr GGM - gree | omite ore proc | essing re | esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep | deposits MGP - man | ufactured gas plant romate chemical production waste |
| omments: | | | OGIVI - YIEE | ii gi ey illuu | | ONDORY - Organic undisturbed native dep | JOSIG GOEVY - CIII | omate onemical production waste |

Boring ID: P3BS-PDI-4+80-105R

| Project Number: | 60635 | 5148 | | | Drilling Method: Direct Push | | SPNAD83) x: 610720.1 | | |
|--------------------------------------|----------------|---------------------|--------------|----------------|--|--|----------------------------|--|--|
| Date Started Dril | | | | | Rig Type: Geoprobe | | NAD83) y: 682600.9 | | |
| Date Finished Dr | rilling: | 11/5/2020 | 0 8:30:00 AM | | Core Size: 3 inch | Boring Total Depth: | 25 ft | | |
| _ogged By: Bre | ndan M | urphy / Tar | ique Islam | | Project Manager: Cameron Dixon | Depth to Water: N | | | |
| Physical Location | n : 800 | Garfield A | venue | | | Surface Elevation: | 15.2 ft NAVD88 | | |
| Depth Range ft bgs) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID | | |
| | 0.0 | | CONCRETE | P 1 4 P | CONCRETE, no staining | | | | |
| -1 | | dry | FILL | | fine to coarse SAND, little fine to coarse debris, (7.5YR 3/2) dark brown, medium | | - | | |
| -2 -3 -3 | | dry | FILL | | no_staining fine to coarse SAND, trace COPR, (5YR brown, medium dense, dry to moist, 10% | | | | |
| -4- | | moist | FILL | | COPR, little fine to coarse sand, (5YR 3/ brown, medium dense, moist, no odor | (3) dark reddish | | | |
| -5 | 0.0 | moist | FILL | | fine to coarse SAND, little fine to coarse debris, (7.5YR 2.5/1) black, medium den no staining | gravel trace fill se, moist, no odor, | | | |
| -7 — 5 -8 — - -9 — - -10 | 0.0 | moist | FILL | | GGM | | | | |
| -11— -12— -13— -13— -14— | 0.0 | | | | | | | | |
| -15 16 | 0.0 | | | | | | | | |
| 70 | | | | \bowtie | | | | | |
| -20- | 0.0 | | | | | | P3BS-PDI-4+80-105R-20.0-20 | | |
| | | moist | OL | <u> </u> | SILT, trace clay trace organics, (7.5YR 4 plasticity medium stiff, moist, no odor, no | d/1) dark gray, low o staining, UND | P3BS-PDI-4+80-105R-20.5-2 | | |

Boring ID: P3BS-PDI-4+80-105R

Page: 2

| Projec | t Name: F | PPG Ga | rfield Ave | | | Orilling Cor | npany: | : Cascade |) | | raye. 2 |
|----------------------------|---------------------|---------------|--------------------------|-------------------------------|----------------|---------------------------------------|-----------------------|-------------------------------|--|---------------------|---|
| | t Number: | | | | | Orilling Met | | | h | | NAD83) x: 610720.1 |
| | | | | 7:45:00 AM | | Rig Type: | | | | | NAD83) y: 682600.9 |
| | | | | 8:30:00 AM | | Core Size: | | | | Boring Total Depth: | |
| | d By: Brei | | | | F | Project Mar | nager: | Cameron | Dixon | Depth to Water: N | |
| Physic | al Locatio | n: 800 | Garfield A | venue | 1 | | | | | Surface Elevation: | 15.2 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | ; | | Surface C | Cover and Thickn | ess: | Sample ID |
| | . 5 | | wet | GC | 0XX) | SILT, li | ttle fine | e to coarse | sand trace coars | se gravel, (7.5YR | |
| 23 | | | moist | OL | | SILT, tı | race cla | ay trace ord | odor, no stainin anics, (7.5YR 4/ | (1) dark gray, low | |
| | _ | | | 0144 | | · · · · · · · · · · · · · · · · · · · | - | | oist, no odor, no | <u> </u> | _ |
| 24 | | | moist | SW | | | | | ace silt, (7.5YR 7 odor, no stainin | | |
| 25 | | | | | ******* | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | low surface | | COPR - chr GGM - gree | omite ore proc en grey mud | essing re | sidue UNDr UNDo | no - non org - ord | n-organic un ganic undisti | disturbed native de | eposits MGP - man | nufactured gas plant promate chemical production waste |
| | | | | | | | | | | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/21 10:54

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-5+10-35R

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: Cascade Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610663.8 Date Started Drilling: 11/3/2020 7:45:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682640.7 Date Finished Drilling: 11/3/2020 8:30:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Brendan Murphy / Tarique Islam Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 15.2 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE CONCRETE, no staining dry CONCRETE Concrete Sub-base fine to coarse SAND, (7.5YR 7/1) light gray, very dense, dry, no odor, no staining **ASPHALT** NA Asphalt P3BS-PDI-5+10-35R-2.0-2.5 dry **FILL** fine to coarse SAND, little fine gravel trace slag, glass brick 5 fragents, (5YR 2.5/1) black, dense, dry, no odor, no staining ASH, some coarse gravel, little fine to coarse sands, trace P3BS-PDI-5+10-35R-4.0-4.5 FILL moist fine gravel, trace fill debris fine to coarse gravel trace glass, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no 0.0 staining P3BS-PDI-5+10-35R-6 0-6 5 5 P3BS-PDI-5+10-35R-8.0-8.5 0.0 P3BS-PDI-5+10-35R-10.0-10.5 P3BS-PDI-5+10-35R-12.0-12.5 5 13 P3BS-PDI-5+10-35R-14.0-14.5 0.0 16 P3BS-PDI-5+10-35R-16.0-16.5 P3BS-PDI-5+10-35R-17.0-17.5 5 P3BS-PDI-5+10-35R-17.5-18.0 moist ML UND SILT, trace clay trace fine sand, trace organics, no CCPW, (7.5YR 3/3) dark brown, low plasticity medium stiff, moist, no odor, no staining SP fine to coarse SAND, trace fine gravel, (5YR 4/3) reddish moist brown, medium dense, moist to wet, no odor, no staining bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

2012-09 RA PPG LOGS

A.GDT - 2/1/21

A=COM

Boring ID: P3BS-PDI-5+25-7L

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610639.3 Date Started Drilling: 9/9/2020 2:20:00 PM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682695.3 Date Finished Drilling: 9/9/2020 3:20:00 PM Core Size: 3 inch Boring Total Depth: 20 ft **Logged By:** Brendan Murphy / Tarique Islam Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 14.8 ft NAVD88 Depth PID Moisture Recovery Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **ASPHALT ASPHALT** CONCRETE CONCRETE, no staining fine to coarse SAND, little fine gravel trace coarse gravel, P3BS-PDI-5+25-7L-0.0-0.5 FILL dry ash, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining P3BS-PDI-5+25-7L-2.0-2.5 5 P3BS-PDI-5+25-7L-4.0-4.5 0.0 FILL fine to coarse SAND, little fine to coarse gravel trace ash, moist trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining P3BS-PDI-5+25-7L-6.0-6.5 5 P3BS-PDI-5+25-7L-8.0-8.5 0.0 P3BS-PDI-5+25-7L-10.0-10.5 P3BS-PDI-5+25-7L-12.0-12.5 5 13 P3BS-PDI-5+25-7L-14.0-14.5 0.0 16 P3BS-PDI-5+25-7L-16.0-16.5 FILL fine to medium SAND, little coarse sand trace fine gravel, moist (2.5YR 2.5/3) dark reddish brown, medium dense, moist, no odor, no staining FILL fine to medium SAND, little coarse sand trace silt, (2.5YR moist 5 2.5/3) dark reddish brown, medium dense, moist, no odor, P3BS-PDI-5+25-7L-17.5-18.0 no staining P3BS-PDI-5+25-7L-18.0-18.5 moist РΤ PEAT (degraded vegetated material) 11, 11, 11/

2012-09 RA PPG LOGS
Note
bgs -

A.GDT - 2/1/21 13:13

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

Boring ID: P3BS-PDI-5+40-7R

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610661.7 Date Started Drilling: 9/11/2020 9:00:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682697.9 Date Finished Drilling: 9/11/2020 9:20:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 14.6 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **ASPHALT ASPHALT** P3BS-PDI-5+40-7R-0.0-0.5 **FILL** fine to coarse SAND, little fine gravel trace ash, trace fill dry debris (glass, ceramics), (7.5YR 4/1) dark gray, loose to medium dense, dry to moist, no odor, no staining P3BS-PDI-5+40-7R-2.0-2.5 5 P3BS-PDI-5+40-7R-4.0-4.5 0.0 P3BS-PDI-5+40-7R-6 0-6 5 5 P3BS-PDI-5+40-7R-8.0-8.5 FILL fine to coarse SAND, some fine to coarse gravel trace ash, moist trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining 0.0 P3BS-PDI-5+40-7R-10.0-10.5 P3BS-PDI-5+40-7R-12.0-12.5 5 fine to coarse SAND, little fine to coarse gravel trace ash, moist FILL trace fill debris, (7.5YR 5/1) gray, medium dense, moist, no odor, no staining P3BS-PDI-5+40-7R-14.0-14.5 0.0 16 P3BS-PDI-5+40-7R-16.0-16.5 5 P3BS-PDI-5+40-7R-17.5-18.0 P3BS-PDI-5+40-7R-18.0-18.5 moist PT PEAT (degraded vegetated material) 11/ 11/ 11/

2012-09 RA PPG LOGS bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

A.GDT - 2/1/21 13:13

Boring ID: P3BS-PDI-5+40-22L

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610635.1 Date Started Drilling: 9/4/2020 12:40:00 PM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682711.3 Date Finished Drilling: 9/4/2020 1:45:00 PM Core Size: 3 inch Boring Total Depth: 20 ft **Logged By:** Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 14.8 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **ASPHALT ASPHALT** CONCRETE CONCRETE, no staining P3BS-PDI-5+40-22L-0.0-0.5 dry FILL fine to coarse SAND, little fine to coarse gravel little ash, (2.5YR 5/1) reddish gray, loose, dry, no odor, no staining P3BS-PDI-5+40-22L-2.0-2.5 5 **FILL** fine to medium SAND, little coarse sand trace fine to coarse moist gravel, trace silt, (10R 3/3) dusky red, medium dense, moist, no odor, no staining P3BS-PDI-5+40-22L-4.0-4.5 FILL fine to coarse SAND, little fine to coarse gravel trace ash, dry trace fill debris (wood, glass), (5YR 2.5/1) black, loose, dry, no odor, no staining 0.0 FILL fine to coarse SAND, little fine to coarse gravel trace fill moist debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining P3BS-PDI-5+40-22L-6.0-6.5 5 P3BS-PDI-5+40-22L-8.0-8.5 FILL fine to coarse SAND, little fine gravel trace coarse gravel, moist trace ash, trace fill derbis, (7.5YR 3/1) very dark gray, 0.0 P3BS-PDI-5+40-22L-10.0-10.5 medium dense, moist, no odor, no staining P3BS-PDI-5+40-22L-12.0-12.5 5 13 P3BS-PDI-5+40-22L-14.0-14.5 0.0 16 P3BS-PDI-5+40-22L-16.0-16.5 fine to medium SAND, little coarse sand trace silt, (7.5YR moist FILL 3/3) dark brown, medium dense, moist, no odor, no staining P3BS-PDI-5+40-22L-17.0-17.5 5 P3BS-PDI-5+40-22L-17.5-18.0 moist PT PEAT (degraded vegetated material) 1/ 1/1/ 1 1/ 1/1/ 1 11, 11,

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

GGM - green grey mud

2012-09 RA PPG LOGS

A.GDT - 2/1/21

Boring ID: P3BS-PDI-5+40-60L

Page: 1

Project Name: PPG Garfield Ave Drilling Company: Summit

Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610601.9 Date Started Drilling: 9/8/2020 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682728.5

| Physica | l B y: Bre al Locatio | | | | | | | | |
|----------------------|---------------------------------|--------------|------------------------|-------------------------------|---------------|--|---|--|--|
| Depth | ai Locatio | | \ \C =\cdot\ - - \ | | | Project Manager: Cameron Dixon | Depth to Water: NA | | |
| Depth | | 11. 000 | Garrield P | venue | 1 | | Surface Elevation: | 14.9 π ΝΑΥΔ88 | |
| ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thic | kness: | Sample ID | |
| | | 0.0 | | ASPHALT | | ASPHALT | | | |
| -1- | | | dry | FILL | | fine to coarse SAND, little fine to coarse debris, (7.5YR 4/1) dark gray, loose to moist, no odor, no staining | e gravel little fill medium dense, dry to | P3BS-PDI-5+40-60L-0.0-0.5 | |
| -2 - -3 - | 5 | | | | | | | P3BS-PDI-5+40-60L-2.0-2.5 | |
| -4 - -5 | | 0.0 | | | | | | P3BS-PDI-5+40-60L-4.0-4.5 | |
| -6 - | | | | | | | | P3BS-PDI-5+40-60L-6.0-6.9 | |
| -8- | 5 | | moist | FILL | | fine to coarse SAND, some fine to coar trace fill debris, (7.5YR 4/1) dark gray, moist, no odor, no staining | se gravel trace ash, medium dense, | P3BS-PDI-5+40-60L-8.0-8.9 | |
| -9 -10 -11 | | 0.0 | | | | | | P3BS-PDI-5+40-60L-10.0-10 | |
| -12 -13 | 5 | | | | | | | P3BS-PDI-5+40-60L-12.0-12 | |
| -14 | | | moist | FILL | | fine to coarse SAND, trace fine to coars debris, (7.5YR 5/1) gray, medium dens staining | se gravel trace fill e, moist, no odor, no | P3BS-PDI-5+40-60L-14.0-14 | |
| -15 - -16 | | 0.0 | | | | | | P3BS-PDI-5+40-60L-16.0-16 | |
| \dashv | | | | | | | | P3BS-PDI-5+40-60L-16.5-17 | |
| -17 | | | moist | PT | <u> </u> | PEAT (degraded vegetated material) | | P3BS-PDI-5+40-60L-17.0-17 | |
| _ -18 - -19 | 5 | | 1113101 | | | | | | |
| lotes: | | | | | 1, 11, | | | | |
| gs - belo | ow surface adow mat | grade | COPR - chr | omite ore proc en grey mud | essing r | sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep | deposits MGP - man | ufactured gas plant romate chemical production wa | |

A.GDT - 2/1/21

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-5+55-7L

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610655.1 Date Started Drilling: 9/10/2020 10:50:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682717.9 Date Finished Drilling: 9/10/2020 11:20:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Brendan Murphy Project Manager: Cameron Dixon Depth to Water: 6.0 ft Physical Location: 800 Garfield Avenue Surface Elevation: 14.1 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **ASPHALT ASPHALT** P3BS-PDI-5+55-7L-0-0.5 **FILL** medium to coarse SAND, some fine to coarse gravel, dry (7.5YR 2.5/1) black, loose to medium dense, dry, no odor, FILL fine to coarse SAND, some ash little fine to coarse gravel, moist trace fill debris (glass, ceramics), (7.5YR 5/1) gray, medium P3BS-PDI-5+55-7L-2-2.5 dense, moist, no odor, no staining 5 moist FILL fine to medium SAND, little coarse sand trace fine gravel, (7.5YR 5/6) strong brown, medium dense, moist, no odor, P3BS-PDI-5+55-7L-4-4.5 FILL moist no staining fine to coarse SAND, little ash trace fine to coarse gravel, trace fill debris, (5Y 2.5/1) black, medium dense, moist to 0.0 wet, no odor, no staining P3BS-PDI-5+55-7L-6-6.5 wet FILL fine to coarse SAND, little ash trace fine to coarse gravel, trace fill debris, (5YR 5/1) gray, medium dense, wet, no odor, no staining 5 P3BS-PDI-5+55-7L-8-8.5 0.0 P3BS-PDI-5+55-7L-10-10.5 P3BS-PDI-5+55-7L-12-12.5 5 13 P3BS-PDI-5+55-7L-14-14.5 0.0 16 P3BS-PDI-5+55-7L-16-16.5 fine to coarse SAND, trace coarse sand trace silt, (7.5YR moist FILL 4/3) brown, medium dense, moist, no odor, no staining P3BS-PDI-5+55-7L-17-17.5 5 P3BS-PDI-5+55-7L-17.5-18 moist PT PEAT (degraded vegetated material) 1/ 1/1/ 1 1/ 1/1/ 1 11, 11, bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

AECOM

Boring ID: P3BS-PDI-5+70-70R

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610728.6 Date Started Drilling: 9/14/2020 10:20:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682697.4 Date Finished Drilling: 9/14/2020 11:30:00 AM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 13.3 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **ASPHALT ASPHALT** P3BS-PDI-5+70-70R-0-0.5 **FILL** fine to coarse SAND, little (20%) COPR trace fine gravel, moist (7.5YR 3/4) dark brown, medium dense, moist, no odor fine to coarse SAND, little fine gravel trace coarse gravel, trace (5%) COPR, (7.5YR 2.5/3) very dark brown, medium **FILL** moist dense, moist, no odor P3BS-PDI-5+70-70R-2-2.5 5 **FILL** fine to coarse SAND, little fine gravel trace coarse gravel, moist (7.5YR 2.5/3) very dark brown, medium dense, moist, no odor, no staining P3BS-PDI-5+70-70R-4-4.5 0.0 P3BS-PDI-5+70-70R-6-6.5 moist FILL fine to coarse SAND, little fine to coarse gravel trace fill debris (glass, ceramics), (7.5YR 2.5/2) very dark brown, medium dense, moist, no odor, no staining 5 P3BS-PDI-5+70-70R-8-8.5 FILL fine to coarse SAND, little ash trace fine to coarse gravel, moist trace fill debris, (5Y 6/1) gray, medium dense, moist, no 0.0 P3BS-PDI-5+70-70R-10-10.5 odor, no staining P3BS-PDI-5+70-70R-12-12.5 5 P3BS-PDI-5+70-70R-14-14.5 0.0 16 P3BS-PDI-5+70-70R-16-16.5 5 P3BS-PDI-5+70-70R-18.5-19 P3BS-PDI-5+70-70R-19-19.5 РТ PEAT (degraded vegetated material) moist 11,

A.GDT - 2/1/21

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

Boring ID: P3BS-PDI-5+70-130R

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Summit Project Number: 60635148 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610786.2 Date Started Drilling: 9/11/2020 3:30:00 PM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682668.3 Date Finished Drilling: 9/11/2020 4:00:00 PM Core Size: 3 inch Boring Total Depth: 20 ft Logged By: Brendan Murphy Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 13.2 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙD (ppm) Log (ft bgs) 0.0 **FILL** DGA (clean fill over poly) **ASPHALT ASPHALT** dry FILL fine to coarse SAND, trace fine to coarse gravel little (30%) COPR, (2.5YR 5/3) reddish brown, medium dense, dry to moist, no odor 5 COPR, little fine to coarse sand, (5YR 3/3) dark reddish moist FILL brown, dense, moist, no odor 0.0 moist FILL **GGM** 5 0.0 5 0.0 moist **FILL** medium to coarse SAND, little fine gravel trace COPR, (5YR 3/3) dark reddish brown, medium dense, moist, no odor 16 5 P3BS-PDI-5+70-130R-17.5-18.0 P3BS-PDI-5+70-130R-18.0-18.5 moist OL SILT, trace fine to medium sand trace organics, (5YR 5/1) gray, medium dense, moist, no odor, no staining

2012-09 RA PPG LOGS

A.GDT - 2/1/21 13:13

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 GGM - green grey mud

Boring ID: P3BS-PDI-TP0+80-250R

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Project Number: 60240739 Drilling Method: Test Pit Coordinates (NJSPNAD83) x: 610675.4 Date Started Drilling: 11/5/2020 7:05:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682180.8

| Date Fi Logged | | illing: | 11/5/2020 | 10:00:00 A | M | Core Size: Project Manager: | Boring Total Dep Depth to Water: | oth: 3.2 ft |
|----------------------------|------------|--------------|----------------------------|-----------------------------|---------------|---|---|--|
| Physic | al Locatio | n: | | | | r roject manager. | Surface Elevation | n: 11.0 ft NAVD88 |
| Depth Range (ft bgs) | Recovery | PID (ppm) | Moisture Content | USCS | Graphi Log | c Surface Cove | er and Thickness: | Sample ID |
| | 3.2 | 15.7 | | FILL | | Topsoil, roots, vegetation, (7. | .5YR 3/2) dark brown | |
| | | | | FILL | | coarse SAND, with gravel, so (7.5YR 2.5/1) black | ome roots and vegetation, | P3BS-PDI-TP-0+80-250R-0.8-1 |
| -1 | | | | FILL | | coarse SAND, with gravel, (7 | 7.5YR 2.5/1) black | |
| -2 | | | | | | | | P3BS-PDI-TP-0+80-250R-2.2-2 |
| -3 | | | | | | | | P3BS-PDI-TP-0+80-250R-2.7-3 |
| Notes: | | grade | COPR - chre GGM - greei | omite ore pro n grey mud | cessing r | esidue UNDno - non-organic undistu UNDorg - organic undisturbe | urbed native deposits MGP - m d native deposits CCPW - | nanufactured gas plant chromate chemical production |

Boring ID: P3BS-PDI-TP1+35-125R

| Project Name: | | | | | Drilling Mathady Tast Dit | Considerate Allo | DNA D03) v. 640570 0 | | |
|--|--------------|---------------------|------------------------------|---------------|--|--|---|--|--|
| Project Numbe | | | 7.00.00 ANA | | Drilling Method: Test Pit | | SPNAD83) x: 610579.6 | | |
| Date Started D | | | | | Rig Type: | | PNAD83) y: 682286.1 | | |
| Date Finished | ייווות: | 11/4/2020 | 9.30:00 AM | | Core Size: | Boring Total Depth | i. 0 IL | | |
| Logged By: Physical Locat | ion: | | | | Project Manager: | Depth to Water: Surface Elevation | 13.0 ft NAV/D88 | | |
| | | | | | | Juitace Elevation | 10.0 IL IVAV DO0 | | |
| Depth Range ft bgs) Recover (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover a | nd Thickness: | Sample ID | | |
| - 1 | 0.0 | dry | FILL | | fine to medium SAND, some co (bricks, ceramic fragments and loose, dry to moist, no odor, no | slag), (7.5YR 4/2) brown, | P3BS-PDI-TP-1+35-125R-0.5-1.0 | | |
| -2 | | dry | FILL | | fine to medium SAND, some co (bricks, ceramic, metal and slag dry to moist, slight petroleum oc |), (7.5YR 4/2) brown, loose, | P3BS-PDI-TP-1+35-125R-1.9-2.4 | | |
| -4 <u>4</u> -5— -6— -7— -8— | 0.0 | moist | FILL | | fine to medium SAND, some co (bricks, wood, metal and glass f debris, (7.5YR 3/2) dark brown, moist, strong petroleum odor, hy 8.0 ft. Sheen observed. | ragments), trace plastic (5Y 2.5/1) black, loose, | | | |
| Notes: | | | | | | | | | |
| ogs - below surfac MM - meadow ma | e grade t | COPR - chro | omite ore prod n grey mud | cessing re | esidue UNDno - non-organic undisturbe UNDorg - organic undisturbed n | ed native deposits MGP - ma ative deposits CCPW - o | nufactured gas plant hromate chemical production was | | |

Boring ID: P3BS-PDI-TP-2+70-20L

| Droinet | Number: | PPG Ga | 110 | | | Drilling Mathady Toot nit | Coordinates (NIS | CONTADOS V. 610613 1 |
|--------------------------------|---------------------|---------------|--------------------------|----------------|----------------|--|--------------------------|---|
| | | | | 7.45.00.484 | | Drilling Method: Test pit | | SPNAD83) x: 610513.1 |
| | | | | 7:45:00 AM | | Rig Type: Excavator | | PNAD83) y: 682470.1 |
| | | | | 9:45:00 AM | | Core Size: 3 ft x 6 ft | Boring Total Depth | |
| | I By: Alar | | | | | Project Manager: Cameron Dixon | Depth to Water: NA | |
| Physic | al Locatio | n: 800 | Garfield A | venue | | | Surface Elevation | : 15.5 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and T | hickness: | Sample ID |
| _ | | 0.0 | | CONCRETE | | Concrete | | |
| 1 | | | dry | FILL | | SAND, (7.5YR 6/3) light brown | | P3BS-PDI-TP-2+70-20L-1.0-1 |
| 2 | 4 | | to moist moist | FILL | | fine to medium SAND, some coarse (7.5YR 4/2) brown, no odor | gravel, trace silts, | 1 855 1 51 11 2 11 2 22 11 0 1 |
| _3 | | | NA | FILL | | Crushed rocks | | _ |
| -4- -5- -6- | 4 | 0.0 | moist | FILL | | fine to medium SAND, with angular trace silt, (7.5YR 3/2) dark brown | rocks and coarse gravel, | |
| 7 8 | | | moist | FILL | | ASH, some silt, wood fragments and 3/2) dark brown, moist | d coarse gravel, (7.5YR | _ |
| | | | | | | | | |
| Notes: bgs - bel MM - me | ow surface | grade | COPR - chr GGM - gree | omite ore proc | essing re | esidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native | tive deposits MGP - ma | inufactured gas plant hromate chemical production wa |

Test Pit Log: P3BSPDI-TP3+00-140R1

| | Number: | | B South Re | modiation | | Drilling Company: ENTACT Drilling Method: Test Pit | Coordinates (NJSPI | NAD83) x: 610674.9 |
|---------------------------|---------------------|--------------|----------------------------|-----------|---------------|---|-------------------------------------|---|
| | arted Drill | | | | | Rig Type: | Coordinates (NJSPN | |
| | nished Dr | | | | | Core Size: | Test Pit Total Depth | |
| | I By : Alar | | | | | Project Manager: Cameron Dixon | Depth to Water: | |
| | al Locatio | | | | | | Surface Elevation: | 15.0 ft NAVD88 |
| D41- | | | | | | | | |
| Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | c Surface Cover and Thickr | iess: | Sample ID |
| _ | | | NA | | | Not Recorded; Test Pit Conducted Within Area | the Excavation | |
| -1- | | | | | | | | |
| -2- | | | | | | | | |
| -3- | | | | | | | | |
| -4- | | | | | | | | |
| -5- - | | | | | | | | |
| -6 | | | | | | | | |
| _ _7_ | | | | | | | | |
| - | | | | | | | | |
| -8 | | | | | | | | |
| -9 | | | | | | | | |
| -10 | | | moist moist | FILL | | Poorly graded sand with gravel (SP), fine subrounded, 10-20% subrounded, fine graded Trace debris, No CCPW [FILL], 10YR 4/3 | avel and Ash, / | P3BS-PDI-TP3+00-140R-EX-9.7- |
| -11 | | | moist | FILL | | \dodur, no staining, non-cohesive, loose Poorly graded sand with gravel (SP), fine subrounded, 10-20% subrounded, fine gr | to medium, | P3BS-PDI-TP3+00-140R-EX-10.7 |
| -12 - - | | | | | | Trace debris No CCPW [FILL], 10YR 4/3 odour, no staining, non-cohesive, loose Poorly graded sand with gravel (SP), fine | (brown), moist, no to medium, | |
| -13 - | | | moist | FILL | | subrounded, 10-20% subrounded, fine gr Trace debris No CCPW [FILL], 2.5Y 4/2 brown), moist, no odour, no staining, non | (dark grayish -cohesive, loose | P3BS-PDI-TP3+00-140R-EX-12.7 |
| -14 - | | | | | | Poorly graded sand with gravel (SP), fine subrounded, 10-20% subrounded, fine grace debris No CCPW [FILL], 10YR 4/3 | avel and Ash, | |
| -15 - | | | moist | FILL | | odour, no staining, non-cohesive, loose Poorly graded sand with gravel (SP), fine subrounded, 10-20% subrounded, fine gr | avel and Ash, | P3BS-PDI-TP3+00-140R-EX-14.7 |
| -16 | | | | | | Trace debris No CCPW [FILL], 10YR 4/3 odour, no staining, non-cohesive, loose | (brown), moist, no | |
| -17 - | | | moist | PEAT | <u> </u> | MAT], 10YR 2/1 (black), moist, peaty odd | CCPW [MEADOW our, no staining, | P3BS-PDI-TP3+00-140R-EX-16.7 P3BS-PDI-TP3+00-140R-EX-17.2 |
| 16 | | | | | <u> </u> | Poorly graded sand with gravel (SP), fine subrounded, 10-20% subrounded, fine graded debris No CCPW [FILL], 10YR 4/3 odour, no staining, non-cohesive, loose Organic soil, 25-35% peat and roots, No | avel and Ash, (brown), moist, no | P3BS-PDI-TP |
| ow surface gr adow mat | g | | COPR - chro GGM - greer | | cessing r | esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | | ufactured gas plant romate chemical production was |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-TP-3+30-15L

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: ENTACT Project Number: 60635148 Drilling Method: Test pit Coordinates (NJSPNAD83) x: 610542.0 Date Started Drilling: 10/30/2020 9:55:00 AM Rig Type: Excavator Coordinates (NJSPNAD83) y: 682522.6 Date Finished Drilling: 10/30/2020 11:30:00 AM Core Size: 3 ft x 6 ft Boring Total Depth: 8 ft Logged By: Alan Buob Project Manager: Cameron Dixon Depth to Water: NA Physical Location: 800 Garfield Avenue Surface Elevation: 15.6 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content Log ΙD (ppm) (ft bgs) 0.0 CONCRETE Concrete SAND, (7.5YR 6/3) light brown _____ fine SAND, with silt, some bricks, angular gravel, cobbles, FILL FILL dry dry P3BS-PDI-TP-3+30-15L-1.5-2.0 to little clay moist 0.0 **FILL** fine SAND, with silt, some angular gravels, no odor dry to moist

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

Boring ID: P3BS-PDI-TP-3+30-40R

Page: 1 Project Name: PPG Garfield Ave Drilling Company: ENTACT Project Number: 60635148 Drilling Method: Test pit Coordinates (NJSPNAD83) x: 610595.7

| | Number: | | | 12:00:00 PM | | Rig Type: Excavator | Coordinates (NJSP | NAD83) y: 682495.9 |
|-----------------------------------|------------------------|--------------|--------------------------|---------------------------------|-------------------------|---|---------------------------------------|--|
| | | | | 20 1:30:00 PM | | Core Size: 3 ft x 6 ft | Boring Total Depth: | |
| | l By : Alar | | 10/29/202 | 20 1.30.00 FW | | Project Manager: Cameron Dixon | Depth to Water: NA | O IL |
| | | |) Garfield A | Vonuo | | Froject Manager. Cameron Dixon | Surface Elevation: | 15 / ft NA\/D88 |
| riiysica | ai Locatio | 11. 600 | J Garrielu F | venue | | | Surface Elevation. | 15.4 IL NAVD66 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickr | ness: | Sample ID |
| | | 0.5 | | CONCRETE | 2 4 4 2 4 4 2 4 4 | Concrete | | |
| -1- | | | dry | FILL | | medium to coarse SAND, (7.5YR 6/3) lig | ht brown, dry, no | |
| _ | 4 | | dry | FILL | | \odorSILT, some fine to medium subangular a | nd angular gravel, | |
| -2- -3- | 7 | | dry | FILL | | brick, glass and metal debris, trace ash a 3/2) dark brown, dry, burnt rubber odor ASH, some glass, tile, metal, paper produsilt, (5Y 5/1) gray, dry, burnt rubber odor | <i>i</i> | |
| 4 5 6 | 4 | 0.0 | dry | FILL | | ASH, some paper products, tile, brucks, debris, (5Y 6/1) gray, dry, burnt rubber of | shells, trace metal dor | |
| -7 | | | | | | | | P3BS-PDI-TP-3+30-40R-6.3-6. |
| | | | | | | | | |
| Notes: ogs - belo VIM - me: | ow surface adow mat | grade | COPR - chr GGM - gree | romite ore proce en grey mud | essing re | sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | eposits MGP - manu sits CCPW - chr | nfactured gas plant omate chemical production was |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P3BS-PDI-TP-3+60-20L

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: ENTACT Project Number: 60635148 Drilling Method: Test pit Coordinates (NJSPNAD83) x: 610554.5 Date Started Drilling: 10/29/2020 8:00:00 AM Rig Type: Excavator Coordinates (NJSPNAD83) y: 682550.0 **Date Finished Drilling:** 10/29/2020 9:05:00 AM Core Size: 3 ft x 6 ft Boring Total Depth: 8 ft Logged By: Alan Buob Project Manager: Cameron Dixon Depth to Water: NA Surface Elevation: 15.9 ft NAVD88 Physical Location: 800 Garfield Avenue Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.5 CONCRETE Concrete FILL fine to medium SAND, (7.5YR 6/3) light brown, dry, no odor dry FILL SILT, with fill materials, little medium to coarse subangular dry P3BS-PDI-TP-3+60-20L-1.5-2 gravel, trace wood, glass, metal debris, (7.5YR 3/2) dark FILL brown, dry, slight petroleum odor dry SILT, with fill material and slag, little medium to coarse subangular gravel, trace wood, glass, metal debris and ash, (5YR 5/1) gray (7.5YR 3/2) dark brown, dry, no odor 0.0 FILL ASH, with slag, little fine to medium subangular gravel, dry glass, wood, metal debris, (5Y 6/1) gray, dry, no odor

. 2012-09 RA PPG LOGS A.GDT - 2/1/21 13:13

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

Boring ID: P3BS-PDI-TP-4+50-20L

Page: 1

| Project | t Name: F | PPG Ga | rfield Ave | | Г | Orilling Co | nnanv: | ENTACT | | | rage. 1 |
|----------------------------|--------------------------|--------------|---------------------|---------------------------------|----------------|--------------------------------|-----------------------|------------------------------------|---------------------------------------|------------------------------------|---|
| | t Number: | | | | | Orilling Me | | | | Coordinates (NJSI | PNAD83) x: 610595.0 |
| | | | | 11:45:00 AM | F | Rig Type: | Excava | itor | | | NAD83) y: 682630.2 |
| Date F | inished Dr | illing: | | 20 1:00:00 PM | 1 C | Core Size: | 3 ft x 6 | 6 ft | | Boring Total Depth: | 8 ft |
| | d By: Alar | | | | P | Project Mar | nager: | Cameron D | ixon | Depth to Water: NA | |
| Physic | al Locatio | n: 800 | Garfield A | venue | ı | | | | | Surface Elevation: | 15.5 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | | Surface Co | ver and Thickno | ess: | Sample ID |
| | | 0.0 | | CONCRETE | | Concre | te | | | | |
| 1-1- | - | | dry | FILL | \bowtie | fine to | mediun | n SAND, (5Y | R 6/4) light red | dish brown | |
| | 4 | | dry | FILL | | silty SA gravel, dry, no | bricks, | tle clay,. trace glass, tiles a | e fine to mediur nd ash, (7.5YR | m subangular ₹ 3/2) dark brown, | P3BS-PDI-TP-4+50-20L-1.2-1.7 |
| 4 | 4 | 0.0 | dry | FILL | | | | ass, tile and no odor | bricks, trace cla | ay and paper, (5Y | |
| Notes: | | | | | | | | | | | |
| bgs - be | low surface eadow mat | | | romite ore proce en grey mud | essing res | sidue UND | no - non org - org | -organic undi ganic undistur | sturbed native de ped native depos | eposits MGP - man ccPW - ch | oufactured gas plant promate chemical production waste |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/1/21 13:13

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-O46A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610669.7Date Started Drilling:9/12/2014 10:15:00 AMRig Type:Coordinates (NJSPNAD83) y:682231.2Date Finished Drilling:9/12/2014 11:15:00 AMCore Size:3.0 inBoring Total Depth:15 ft

| hanna l | By: SS | | 9/12/2014 | | | Core Size: 3.0 in Project Manager: Scott Mikaelian | Depth to Water: NA | |
|---------------------------|---------------------|--------------|----------------------------|----------|----------------|--|-------------------------------------|--------------------------------|
| | al Location | ı. Hal | liday | | | -Toject Manager. Scott Mikacilan | Elevation: 10.9 ft N | |
| inysica | . Locatioi | . I Iai | паау | | | | | te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| . 7 | | 0.0 | dry | FILL | | ASH, some fine to medium sand, little | COPR, (7.5YR | P4-HAL-O46A-0.5-1.0 |
| -1 | | 0.0 | dry | FILL | | 2.5/1) black, loose, dry, no odor, no sta | ining. | |
| -2- | 5 | | | | | fine to medium SAND, little silt, little as trace fine to medium gravel, trace coal, brown, loose, dry, no odor, no staining. | (7.5YR 3/3) dark | |
| -3 -4 | | | | | | | | P4-HAL-O46A-2.5-3.0 |
| | | | | | | | | P4-HAL-O46A-4.5-5.0 |
| -5- - -6 | | 0.0 | moist to wet | FILL | | ASH, some fine to medium sand, trace gravel, (7.5YR 3/2) dark brown, loose, I | | |
| -7- -8- | 5 | | | | | | | P4-HAL-O46A-6.5-7.(|
| \dashv | | | | | | | | P4-HAL-O46A-8.5-9.0 |
| -9 | | 0.0 | moist | FILL | | fine to medium SAND, some ash, some brick, (5YR 3/3) dark reddish brown, loo odor, no staining. | e cinders, little ose, moist, no | |
| -10 | | 0.0 | wet | FILL | | fine to medium silty SAND, little fine to | medium gravel, | |
| -11 -12 | | | to saturated | | | (5YR 4/3) reddish brown, loose, wet to odor, no staining. | | P4-HAL-O46A-10.5-11 |
| 12 | 5 | | | | | | | |
| _13 | | | | | | | | P4-HAL-O46A-12.5-13 |
| -14 | - | 0.0 | dry to sl | PT OL | ~ ~ ~ ~ | to slightly moist, moderate organic odo | medium stiff, dry | P4-HAL-O46A-13.0-13 |
| _ _15 | | | moist slightly moist | | | with MM. UND organic SILT, 80% organic silt, 20 (10YR 4/1) dark gray, low plasticity, sof slight organic odor, no staining. Soils of UNDorg. | t, slightly moist, 🏻 🦯 | |
| | | | | | | | | |
| | 4.4) | | | | | ND/MM confirmed to be 1 ft thick. | | |



Boring ID: P4-HAL-O47A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610665.4

Date Started Drilling:9/12/2014 9:15:00 AMRig Type:Coordinates (NJSPNAD83) y: 682204.0Date Finished Drilling:9/12/2014 10:00:00 AMCore Size: 3.0 inBoring Total Depth: 15 ft

| Date Fi | nished Dr | illing: | 9/12/2014 | 10:00:00 AN | Л | Core Size: 3.0 in | Boring Total Depth: | |
|----------------------------|---------------------|--------------|---------------------|------------------|--------------|---|--|---------------------------------|
| Logged | By: SP | | | | | Project Manager: Scott Mikaelian | Depth to Water: N | Α |
| | al Locatio | n: Hal | liday | | | | Elevation: 11.1 ft | |
| | | | | | | | | ote bgs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graph Log | Surface Cover and Thick | ness: | Sample ID |
| 1 | | 0.0 | | ASPHALT | | ASPHALT | | |
| —2— — 3— — . | 5 | 0.0 | dry | FILL | | fine to medium SAND, some gravel, so (10YR 6/1) gray, non plastic, loose to n dry, no odor. | ome concrete, nedium dense, | P4-HAL-O47A-2.0-2.5 |
| | | 0.0 | | ASPHALT | XXXX | ASPHALT | | P4-HAL-O47A-4.0-4.5 |
| | | 9.9 | dry | FILL | | ASH, some sand, trace fine to medium 3/1) very dark gray, non plastic, loose t dry, no odor. | gravel, (10YR o medium dense, | |
| 7 | 5 | | | | | | | P4-HAL-O47A-6.0-6.5 |
| 8 9 | | 0.0 | moist | FILL | | silty SAND, trace fine to medium grave | J (5YR 3/4) dark | P4-HAL-O47A-8.0-8.5 |
| 10 | | 0.0 | moist | FILL | | reddish brown, low plasticity, medium o | dense, moist, no | P4-HAL-O47A-10.0-10.5 |
| 11 12 | | 0.0 | moist | I ILL | | silty SAND, trace gravel, (5YR 4/4) red plasticity, medium dense, moist, no od | dish brown, low or. | P4-HAL-O47A-12.0-12.5 |
| 13 | 5 | | | | | | | |
| Γ., - | | | | | \bowtie | \aleph | | P4-HAL-O47A-13.5-14.0 |
| 14 | | 0.0 | slightly moist | PT | <u> </u> | 1 E/ (degraded vegetated material), / | 70% organic fibers, ate organic odor. | P4-HAL-O47A-14.0-14.5 |
| 15 | | | | | | Sold Sold William William | | |
| Commo | *** 1\ 2 offo | montoo | ro mada ta d | obtain boot room | von. 2) | UND/MM confirmed to be 1 ft thick 3) No COPR or G | CM present in any interva | of this boring |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-P44A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610720.8Date Started Drilling:9/9/2014 8:30:00 AMRig Type:Coordinates (NJSPNAD83) y:682260.4Date Finished Drilling:9/9/2014 10:00:00 AMCore Size:3.0 inBoring Total Depth:20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

| | By: SP | | | | ŀ | Project Manager: | Scott Mikaelian | Depth to Water: N | |
|---------------------------|---------------------|-------------------|---------------------------------|-------------------------|--|--|---|---|---|
| Physica | al Location | 1: Hal | lliday | | | | | Elevation: 11.5 ft | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | ; | Surface Cover and Th | | ote bgs = below ground surface) Sample ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT, so | ome gravel, dry, no ode | or. | |
| -1 - -2 | 5 | 0.0 0.0 0.0 | dry to sl moist dry | FILL ASPHALT FILL | | 3/4) dark yello dry to slightly ASPHALT, tra fine to coarse | SAND, trace cinders, owish brown, non plast moist, no odor. ace gravel, dry. SAND, trace cinders, | trace wood | P4-HAL-P44A-0.5-1.0 |
| -3 -4 | 5 | | dry to sl moist | | | fragments, tra | ace gravel, (10YR 3/1) im dense, dry to slight | very dark gray, non | P4-HAL-P44A-2.5-3.0 |
| -5 | | 0.0 | slightly moist | FILL | | GGM, (10YR | silty SAND, trace rool 5/2) grayish brown, lov slightly moist, no odor | w plasticity, stiff to | P4-HAL-P44A-4.5-5.0 |
| -6— | | 0.0 | dry slightly | FILL | | silty SAND, tr 5/2) grayish b odor. | ace rock fragments, so rown, low plasticity, m | ome cinders, (10YR edium dense, dry, no | - |
| -7 -8 | 5 | | moist | I ILL | | ASH, trace sa plastic, mediu | and, trace silt, trace bri im dense, slightly mois | ick, trace gravel, non st, no odor. | P4-HAL-P44A-6.5-7.0 |
| -9 | | 0.0 | dry | FILL | | rock fragmen | ome fine to medium sa ts, (10YR 4/1) dark gra ense, dry, no odor. | nd, trace ash, trace ay, non plastic, loose | P4-HAL-P44A-8.5-9.0 |
| -10 | | 0.0 | moist | FILL | | SAND, some | fine to medium sand, | trace ash, trace rock | |
| -11 - -12 | 5 | 0.0 | moist | FILL | | medium dens | 0YR 4/1) dark gray, no e, moist, no odor. m silty SAND, trace gran, low plasticity, mediu | avel, (2.5YR 3/3) dark | P4-HAL-P44A-10.5-11 |
| -13 - -14 -14 | 3 | | | | | | | | P4-HAL-P44A-14.5-13 |
| -15 — — -16 — | | 0.0 | slightly moist | PT | <u> </u> | 30% organic | silt, slightly moist, mod | I), 70% organic fibers, derate organic odor. | P4-HAL-P44A-15.0-15 |
| -17 -18 -19 | 5 | 0.0 | slightly moist | OL | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | UND organic (10YR 4/1) da | SILT, 90% organic silt ark gray, low plasticity, anic odor. Soils consis | slightly moist, | |
| | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-P45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610699.2

 Date Started Drilling:
 9/15/2014 8:10:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682240.7

 Date Finished Drilling:
 9/15/2014 9:10:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 15 ft

| | | illing. | 9/13/2014 | 1 9:10:00 AM | | Core Size: 3.0 in | Boring Total Depth: | |
|---------------------------|---------------------|--------------|---------------------|------------------|-------------------|---|----------------------|--|
| | By: SS | | | | ļ. | Project Manager: Scott Mikaelian | Depth to Water: NA | |
| Physica | al Location | n: Hal | liday | | | | Elevation: 11.3 ft N | VAVD88 te bgs = below ground surface) |
| | | | | | | | (NC | te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| | | 0.0 | dry | FILL | | fine to medium SAND, little fine to med | ium gravel. 10% | P4-HAL-P45A-0.5-1.0 |
| -1 | | 0.0 | dry | FILL | | COPR, (5YR 3/3) dark reddish brown, | oose, dry, no | - |
| \dashv | | | u., | | | \odor, no staining. | / | |
| -2- | | | | | | ASH, some concrete, little fine to medi brick, (7.5YR 4/1) dark gray, loose, dry | um gravei, trace | |
| - | 5 | | | | | staining. | , no odor, no | P4-HAL-P45A-2.5-3.0 |
| -3 | | | | | | Ŭ. | | F4-11AL-F45A-2.5-3.0 |
| _ | | | | | | | | |
| -4 | | | | | \bowtie | | | |
| · _ | | 0.0 | dry | FILL | | fine to medium SAND, and ash, little fil | ne to medium | |
| -5 | | | | | | gravel, trace coal, (10YR 3/1) very darl no odor, no staining. | gray, loose, dry, | P4-HAL-P45A-4.5-5.0 |
| -5 | | 0.0 | dry | FILL | \bowtie | ASH, some fine to medium sand, little | medium gravel, | |
| \bigcap | | | to sl | | | trace chrome-stained concrete, (10YR) | 3/1) very dark | |
| -6 | | | moist | | | gray, loose, dry to slightly moist, no od | or. | |
| \neg | | | | | | | | P4-HAL-P45A-6.5-7.0 |
| -7 | _ | | | | | | | |
| \dashv | 5 | | | | | | | |
| -8- | | 0.0 | wet | FILL | \longrightarrow | CINDERS, little fine to medium sand, t | aco wood | _ |
| - | | 0.0 | WEL | 1166 | \bowtie | fragments, trace ceramics, (10YR 4/1) | dark grav. loose. | P4-HAL-P45A-8.5-9.0 |
| -9 | | | | | \bowtie | wet, no odor, no staining. | g, , , | 1 4-11/4-1 45/4-0.5-3.0 |
| _ | | | | | | | | |
| -10 | | | | | \bowtie | | | _ |
| | | 0.0 | wet | FILL | | fine to medium silty SAND, little mediu | m gravel, (7.5YR | |
| _11 | | | | | | 4/3) brown, loose, wet, no odor, no sta | ning. | P4-HAL-P45A-10.5-11 |
| '' | | | | | | | | |
| 42 | | | | | | | | |
| -12 | 5 | | | | | | | |
| 7 | | | | | | | | P4-HAL-P45A-12.5-13 |
| -13 | | | | | | | | |
| \neg | | | | | | | | P4-HAL-P45A-13.5-14 |
| -14 | | 0.0 | slightly | PT | <u> </u> | PEAT (degraded vegetated material), 6 | 60% organic silt. | P4-HAL-P45A-14.0-14 |
| \dashv | | | moist | | 1/ 1// 1/ | 40% organic fibers, (7.5YR 3/3) dark b | own, medium | |
| -15 | | | | | | | no staining. Soils 🗡 | |
| | | | | | | consistent with MM. | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | <u></u> | | | |
| ommer | nts: 1) 3 atte | mpts we | re made to | obtain best reco | overy 2) U | ND/MM confirmed to be 1 ft thick. | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-Q42A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610774.3
Date Started Drilling: 9/8/2014 9:40:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682309.6

Date Finished Drilling: 9/8/2014 10:35:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

| | By: SS al Location | ı. Hal | liday | | , i | Project Manager: Scott Mikaelian | Depth to Water: NA Elevation: 11.5 ft N | |
|---------------------------|---------------------|--------|---------------------|---------|-------------------------------|--|--|--------------------------------|
| пузісс | ii Locatioi | i. Hai | iluay | | | _ | | te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | | Moisture Content | USCS | Graphic Log | Surface Cover and Trilcki | ness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| -1- | | 68 | dry | FILL | | fine to medium SAND, and ash, trace b dark grayish brown, loose, dry, no odor. | | P4-HAL-Q42A-0.5-1.0 |
| -2- | 5 | 12.0 | dry | FILL | | fine to medium SAND, and ash, some of material, (10YR 2/1) black, loose to har petroleum odor, no staining. | | P4-HAL-Q42A-2.5-3.0 |
| -3 -4 - | | 0.0 | moist | FILL | | fine to medium silty SAND, little ash, tra fragments, trace GGM, (10YR 5/2) gray moist, no odor, no staining. | | P4-HAL-Q42A-4.5-5.0 |
| -5- | | 0.0 | | - FILL | | fine to readily regresselly CAND comes a | ala little aindena | 1 4-11/L-Q42/A-4.5-5.0 |
| _ | | | moist | FILL | \bowtie | fine to medium gravelly SAND, some as (10YR 3/1) very dark gray, loose, moist | sn, little cinders, | |
| -6- | | 0.0 | moist | FILL | | staining. | | |
| -7 | 5 | | | | | gravel, little brick, (10YR 4/2) dark gray moist, no odor, no staining. | | P4-HAL-Q42A-6.5-7.0 |
| -8 -9 - | - | 0.0 | | | | ASH, some cinders and fine to medium (7.5YR 4/1) dark gray, loose, moist, no | P4-HAL-Q42A-8.5-9.0 | |
| -10 | | 0.0 | moist | FILL | \bowtie | CINDERS, some ash, little fill material, | (7 5VP 5/1) gray | |
| -11 -11 | | 0.0 | moist | TILL | | loose, moist, no odor, no staining. | (7.31K 3/1) gray, | P4-HAL-Q42A-10.5-11 |
| -12 13 14 | 5 | 0.0 | moist | FILL | | fine to medium SAND, some gravel, little and debris, (5YR 3/4) dark reddish brown o odor, no staining. | | P4-HAL-Q42A-12.5-13 |
| · ¬ | | | | | | | | P4-HAL-Q42A-14.5-15 |
| -15 | | 0.0 | moist | FILL | | fine silty SAND, trace gravel and fill, tra | | P4-HAL-Q42A-15.0-15 |
| -16 -17 | | 0.0 | slightly moist | PT | 71/ 71/ 7 71/ 7 7 71/ 7 | (7.5YR 2.5/1) black, loose, moist, slight staining. PEAT (degraded vegetated material), 6 40% organic fibers, (7.5YR 4/3) brown, | 0% organic silt, non plastic, | P4-HAL-Q42A-15.5-16 |
| -18 18 | 5 | 0.0 | moist | OL | | medium stiff to dense, slightly moist, st no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% or (10YR 4/1) dark gray, low plasticity, sof organic odor, no staining. Soils consiste | ganic fibers, t, moist, moderate | |
| -19 | | | | | | organio odor, no stanning. Sons consiste | on with SNDOIG. | |
| 20 | | | | | | | | |
| | | | | | | | | |
| | | | | | | ND/MM confirmed to be 1 ft thick. | | |

Boring ID: P4-HAL-Q43A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Coordinates (NJSPNAD83) x: 610759.8 Drilling Method: Geoprobe

Project Number: 60240739 Date Started Drilling: 9/9/2014 10:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682280.6 Date Finished Drilling: 9/9/2014 10:15:00 AM Core Size: 3.0 in **Boring Total Depth:** 15.5 ft

| Logged By: Physical Lo | : SS ocation | ı: Hal | liday | | ļ | | oth to Water: NA vation: 11.3 ft NAVD88 |
|---------------------------|--|---|---------------------|---------|----------------|---|---|
| | | | , | | | | (Note bgs = below ground surface) |
| Depth Range ft bgs) | covery t/ft) | PID (ppm) | Moisture Content | 0303 | Graphic Log | Surface Cover and Thickness. | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| _1 | | 0.0 | dry | FILL | | CONCRETE, little medium gravel, little sand | d, (7.5YR 7/1) P4-HAL-Q43A-0.5-1.0 |
| -2 | 5 | 0.0 | dry | FILL | | light gray, loose, dry, no odor, no staining. fine to medium SAND, and cinders, trace de 3/1) very dark gray, loose, dry, no odor, no s | ebris, (10YR staining. P4-HAL-Q43A-2.5-3.0 |
| -3 4 | | 0.0 | moist | FILL | | fine to medium silty SAND, some cinders, tr | |
| -5 | | | | | | fragments, trace brick, (10YR 3/2) very dark brown, loose, moist, no odor, no staining. | grayish P4-HAL-Q43A-4.5-5.0 |
| -6- | | 0.0 | moist to wet | FILL | | fine to medium silty SAND, little concrete, tr trace gravel, (7.5YR 4/1) dark gray, loose, n no odor, no staining. | noist to wet, |
| -7- | 5 | | | | | | P4-HAL-Q43A-6.5-7.(|
| -8 | to very dark brown, staining. 0.0 moist FILL CINDERS, little fragments, trace moist, no odor, r | 0.0 | to | FILL | | fine silty SAND, and cinders, little gravel, (7 very dark brown, loose, moist to wet, no ode staining. | 5YR 2.5/3) pr, no P4-HAL-Q43A-8.5-9.0 |
| 9— | | CINDERS, little fine to medium gravel, trace fragments, trace debris, (7.5YR 4/1) dark gr | wood | | | | |
| -10 | | 0.0 | wet | FILL | | moist, no odor, no staining. CINDERS, some ash, little gravel, trace woo | od fragments |
| -11 -12 | 5.5 | 0.0 | moist to wet | FILL | | (7.5YR 4/1) dark gray, loose, wet, no odor, r fine to medium silty SAND, little fine to med (5YR 3/4) dark reddish brown, loose, moist odor, no staining. | no staining. P4-HAL-Q43A-10.5-11 ium gravel, |
| -13 | 5.5 | | | | | | P4-HAL-Q43A-12.5-13 |
| _ -15 | | 0.0 | slightly moist | PT | | PEAT (degraded vegetated material), 60% of 40% organic fibers, (7.5YR 4/3) brown, med | P4-HAL-Q43A-14.0-14 |
| | | | | | <u> </u> | slightly moist, slight organic odor, no stainin consistent with MM. | g. Soils |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-R42A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610800.6

Date Started Drilling: 9/10/2014 8:15:00 AM

Date Finished Drilling: 9/10/2014 9:20:00 AM

Logged By: SS

Date Started Drilling: 9/10/2014 9:20:00 AM

Core Size: 3.0 in

Boring Total Depth: 20 ft

Project Manager: Scott Mikaelian

Depth to Water: NA

| ogged By: SS | | | | | roject iviariager. | Scott Mikaelian | Depth to Water: N | | | | | |
|--------------------------------------|--------------|---------------------|------------------|----------------|---|---|-------------------------------|--|--|--|--|---------------------|
| Physical Location | n: Ha | lliday | | | | | Elevation: 10.9 ft | NAVD88 lote bgs = below ground surface) | | | | |
| | | | | | | | eu, | lote bgs - below ground surface) | | | | |
| Depth Range ft bgs) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thic | kness: | Sample ID | | | | |
| | 0.0 | | ASPHALT | | ASPHALT | | | | | | | |
| -1 | 8.1 | dry dry | FILL FILL | | concrete (20° loose, dry, sli | m SAND, little gravel, tra % COPR), (5YR 3/3) dar ght petroleum odor, no | k reddish brown, staining. | P4-HAL-R42A-0.5-1.0 | | | | |
| | | uly | '' | | ASH, some fine to medium sand, little gravel, (7.5YR 2.5/1) black, loose, dry, strong petroleum odor. | | | | | | | |
| -3 -4 - | | | | | | | P4-HAL-R42A-2.5-3.0 | | | | | |
| -5- - -6- - | 610.0 | moist to wet | FILL | | medium grav | einders, little glass fragm el, (7.5YR 2.5/1) black, eum odor, hydrocarbon s | oose, moist to wet, | F 4-1 IAL-1142A-4.3-3.0 | | | | |
| -7- | | | | | | | | P4-HAL-R42A-6.5-7.0 | | | | |
| -8— - | 63.8 | wet | FILL | | wood fragme | m SAND, some silt, little nts, (7.5YR 2.5/1) black, or, hydrocarbon staining | loose, wet, strong | P4-HAL-R42A-8.5-9.0 | | | | |
| -9 | | | NR | | NO RECOVE | RY | | F4-HAL-N42A-0.5-9.0 | | | | |
| 10 | | | | | | | | | | | | |
| 10 | 0.0 | moist | FILL | | CINDERS, so | ome ash, little fine grave | l, trace coal, trace | | | | | |
| -11— - -12— _ 5 | 0.0 | moist | FILL | | moderate pet fine to mediu | nts, (7.5YR 4/1) dark gra troleum odor, no staining m silty SAND, little fine (7.5YR 3/3) dark brown, lo ning. | g/ gravel, trace wood | P4-HAL-R42A-10.5-11 | | | | |
| -13 | | | | | | | | | | | | P4-HAL-R42A-12.5-13 |
| 15 | | | | | | | | P4-HAL-R42A-14.5-15 | | | | |
| -16 | 0.0 | moist | PT | | 30% organic | ded vegetated material) fibers, (7.5YR 3/2) dark noderate organic odor, n th MM. | brown, medium | P4-HAL-R42A-15.0-15 | | | | |
| 5 | 0.0 | moist | OL | | (7.5YR 3/1) v | SILT, 90% organic silt, ery dark gray, low plasti dodor, no staining. Soils | city, soft, moist, | | | | | |
| -19 - | | | | | | | | | | | | |
| 20 | | | | | <u> </u> | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | obtain best reco | | | | | • | | | | |



0 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: TWA-1

Page: 1

 Project Name:
 PPG 10 West
 Drilling Company:
 SGS

 Project Number:
 60154801.0004.2
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610735.5

 Date Started Drilling:
 4/5/2012
 Rig Type:
 6610DT
 Coordinates (NJSPNAD83) y:
 682590.8

Date Finished Drilling: 4/5/2012 Core Size: 2 in Boring Total Depth: 25 ft

Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 5 ft

Physical Location: Indoors, within the Morris Canal Elevation: 15.3 ft NAVD88 (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic GA Sample Range **USCS** Surface Cover and Thickness: Content (ft/ft) (ppm) Class Log Number (ft bgs) White Concrete, no staining, dense. 0 3.9 Dry 1 Fill TWA-B001-1.0 0 Light Reddish Brown (5YR 6/4) fine to medium SAND, little Moist 4B Fill BORINGS fine angular Gravel and Concrete, 10% COPR, moist, 0 2 medium dense. No odor. 0 TWA-B001-3.0 3 Dusky Red (10YR 3/4) SILT and fine rounded GRAVEL JERSEY/GARFIELD AVENUE GROUP OF SITES/10 WEST Moist 4A Fill (nodules), 100% COPR, moist, medium dense. No odor. 4 Moist 4A Fill No Recovery 0 5 2.5 TWA-B001-5.0 Wet 4A Fill Dusky Red (10YR 3/4) SILT and fine rounded GRAVEL 0 6 (nodules), 100% COPR, wet, medium dense. No odor. Black (10YR 2/1) fine SAND, wet, loose. No odor. Fill Wet 3 0 TWA-B001-7.0 Greenish Grey (Gley1 6/1) SILT and medium angular Gravel, 50% GGM, wet, loose. No odor. Wet Fill 5 8 Fill Wet 5 No Recovery 9 0 TWA-B001-10.0 10 Wet Fill Pale Olive (10YR 6/4) SILT and fine SAND, some medium 5 0 11 angular Gravel, 100% GGM, chalky, calcium leachate, wet, medium dense. Chemical odor. 0 12 TWA-B001-12.0 0 13 EQUIS WORK/PPG 0 14 TWA-B001-14.0 0 15 2.5 Wet 3 Black (10YR 2/1) CLAY, little Silt, wet, soft. No odor. (Canal Fill 0 16 TWA-B001-16.0 Fill Moist bottom.) SETTINGS/STANCHAKM/MY DOCUMENTS/MY Black (10YR 2/1) fine SAND and FILL (brick, coal), little fine 0 17 angular Gravel, dense, moist. No odor. 7 РΤ Moist Dark Reddish Brown (5YR 3/3) PEAT (Meadow mat), trace 18 PΤ Moist Silty Clay, moist, stiff. No odor. 11/ 11/ No Recovery 19 0 20 TWA-B001-20.0 11/11/11 Dark Reddish Brown (5YR 3/3) PEAT (Meadow mat), trace Moist 7 PT n 21 Silty Clay, moist, stiff. No odor. 11/ 11/ 0 TWA-B001-22.0 22 11/ 11/ 0 11/11/ 23 SP Gray (10YR 5/1) very fine SAND, moist, dense. No odor. 8 Moist 24 SP Moist 8 No Recovery C:\DOCUMENTS AND 25 End of boring at 25 ft. 26 27 28 5/7/12 11:12 -29 30 31 STD US LAB.GDT 32 33 34 GINT Comments: Trace COPR from 0.5-2.5 ft. 100% COPR from 2.5-6.0 ft. GGM from 7.0-15.0 ft. Sampled on 4/6/12.



Boring ID: TWA-2

| | y: IVI. IVIE | | | | Frojectiv | ialiagel. N | RODER Cataloo Deptil to water: 5.5 it | |
|----------------------------|---------------------|--------------|---------------------|-------------|------------|--|--|--------------------------------|
| Pnysicai | Location: | Indo | ors | | | | Elevation: 15.1 ft NAVD88 (Note bgs = below gro | und surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| | 3.5 | 0 | Dry | . 1 | CONCRETE | P | CONCRETE, (N 8/) white, dry , no staining, no rebar. | |
| _1 | | 0 | Dry | 4B | FILL | | fine gravelly SAND, little cinders, coal and silt, 75% COPR, (2.5YR 4/4) reddish brown (7.5YR 2.5/1) black, dense, dry, no odor, rounded | TWA-B002-1.0 |
| 3 | | 0 | Moist | 3 | FILL | | fine silty SAND, some fill material (brick, concrete coal, ash), (7.5YR 2.5/1) black (10YR 4/3) brown, dense, moist , no | TWA-B002-3.0 |
| _4 _ ₅ | 1.6 | 0 | Moist | 3 | FILL | | odor NO RECOVERY | TWA-B002-5.0 |
| 6 | 1.0 | | Moist to | 3 | FILL | | fine silty SAND, some fill material (brick, concrete, coal, ash), (7.5YR 2.5/1) black (10YR 4/3) brown, medium dense, | TWA-B002-6.0 |
| | | | Wet Wet | 3 | FILL | | moist to wet, at 5.5 ft., no odor NO RECOVERY | |
| | | | | | | | | |
| | 1 | 0 | Wet | 3 | FILL | | fine silty SAND, some fill material (brick, concrete, ash, | TWA-B002-10.0 |
| | | | Wet | 3 | FILL | | coal), (7.5YR 2.5/1) black, medium dense, wet , no odor NO RECOVERY | |
| 13 | | | | | | | | |
| 14 - 15 | 0.9 | 0 | | | | | | TWA-B002-15.0 |
| 16 | | | Wet | 3 | FILL | | fine silty SAND, some fill material (brick, concrete, coal, | |
| 17 -18 -19 | | | Wet | 3 | FILL | | ash), (7.5YR 2.5/1) black, medium dense, wet , no odor NO RECOVERY | |
| 20 | 3 | 0 | Moist | 7 | PT | | 90% PEAT (Meadow Mat), 5% silt 5% clay, (7.5YR 3/3) dark | |
| | | | Molec | | | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | brown, medium stiff, moist , no odor | TWA-B002-21.0 |
| | | | Moist | 7 | PT | 71/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2 | NO RECOVERY | TWA-B002-23.0 TWA-B002-23.0 |
| 25 | | | | | | <u> </u> | End of having at 25 ft | |
| 26 | | | | | | | End of boring at 25 ft. | |
| 27 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 32 | | | | | | | | |
| | | | | | | | | |
| 35 | | | | | | | | |
| Comments | : 75% COPF | R from C |).5-2.5 ft S | Sampled | on 4/6/12. | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: TWA-3/ICO-15

| Range (ft bgs) (ft/ft) (ppm) Content Class USCS Log Surface Cover and Trickness: No. 1 | ample umber -B015-1.0 -B015-3.0 -B015-5.0 |
|--|---|
| Range (ft bgs) (ft/ft) (ppm) Content Class USCS Log Surface Cover and Thickness: | B015-1.0 B015-3.0 |
| 1 0 Dry 6 Fill Black fine SAND, some Brick and Concrete, little coal and cinders, dry, loose. No odor. | B015-3.0 |
| 2 O Cinders, dry, loose. No odor. 1 O CINDERS OF THE CONTROL OF T | B015-3.0 |
| 2 0 0 ICO-I | |
| 4 Dry 6 Fill No Recovery | |
| Dry 6 Fill WWW No Recovery | B015-5.0 |
| | B015-5.0 |
| 5 7 2 0 ICO-I | |
| Black fine SAND, some Brick and Concrete, little coal and | |
| Wet 6 Fill Gravish Brown (10YR 5/2) ASH and CINDERS, little coal | |
| frags, wet, loose. No odor. | B015-7.0 |
| No Recovery | |
| _9 _ | |
| - ₁₀ - ₃ 0 ICO-E | B015-10.0 |
| Black fine SAND and CINDERS, little interbedded Ash, wet, | 20.0.00 |
| medium dense. No odor. | |
| 12 0 ICO-E | B015-12.0 |
| | |
| Wet 6 Fill No Recovery | |
| | B015-15.0 |
| Black fine SAND and CINDERS, little interbedded Ash, wet, | 3010 10.0 |
| medium dense. No odor. | |
| 17 Wet 6 Fill No Recovery | B015-17.0 |
| 18 To No Recovery | |
| | |
| -20 - 4 0 ICO-E | B015-20.0 |
| Black (10YR 2/1) organic SILT, little interbedded Clay, | 20.0 20.0 |
| moist, soπ. No odor. | |
| | 3015-22.0 3015-22.0X |
| 23 Silty Clay, moist, stiff. No odor. | |
| Moist 8 SM Gray (10YR 6/1) very fine SAND, trace Silt, moist, dense. No odor. | |
| Moist 8 SM No Recovery | |
| End of boring at 25 ft. | |
| | |
| 27 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 35 | |
| Comments: No COPR/GGM identified at this location. Sampled on 4/6/12. | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: TWA-4

Project Name: PPG 10 West Drilling Company: SGS

Project Number: 60154801.0004.2 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610671.9

Date Started Drilling: 4/5/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682620.8

Date Finished Drilling: 4/5/2012 Core Size: 2 in Boring Total Depth: 25 ft

Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 5.5 ft

| Depth Range (ft/ft) PiD Moisture (GA (ppm) Content (Class USCS Graphic (Log Surface Cover and Thickness: Sample Number Number | | By: M. Me | | | | Project | Manager: | Robert Cataldo | Depth to Water: 5.5 ft | |
|--|-------------------------|------------------|--------|----------------|-----------|-------------|--|---------------------------|---|-----------------|
| Despth Pin Moisture GA Correct Class USCS Graphic Cog Surface Cover and Thickness: Sample Number | Physical | Location: | Indo | ors | | | | | Elevation 15.1 ft NAVD88 | |
| Surface Cover and Thickness: TWA-B004-12. TWA-B004-12. TWA-B004-13. TWA-B004-13. TWA-B004-14. TWA-B004-15. T | | | | | | | | | (Note bgs = below gro | ound surface) |
| 1 | Range (ft bgs) | | | | | USCS | | Surfa | ce Cover and Thickness: | |
| 10 | 1 | 4.6 | | Dry | | Fill | P 4 4 P 1 | VIIILO OUTICIO, TIO | staining, dense. | T14/4 B00// / 0 |
| Moist 6 Fill No ador. TWA-B004-3.6 | _1 | <u> </u> | 0 | | 3 | Fill | | Dark Grayish Brown | (10YR 4/2) fine SAND and fine crushed | TWA-B004-1.0 |
| Moist 6 Fill Moist 7 Fill Moist 8 Moist Moi | ⊢ ₂ – | | 0 | | | | | | , concrete), dry to moist at 1.0 ft, loose. | |
| Moist 6 | | | _ | IIIOISt | | | | No odor. | | TIAVA DO04.00 |
| 1.5 | 3 | | | Moiet | 6 | Cill Cill | | Gravich Brown (10VI | P. 5/2) ASH and CINDEDS little fine to | TWA-B004-3.0 |
| 1.5 | _4 | | | IVIOISE | " | 1 111 | | medium Sand and S | ilt. moist. loose. No odor. | |
| Most 6 | <u> </u> | 1.5 | 0 | | | | | X | <u> </u> | TWA BOOA 5.0 |
| 1.5 | <u> </u> | 1.5 | | | | | - | No Recovery | D 5/2) ASH and CINDEDS little fine to | 1 VVA-B004-3.0 |
| No Recovery | 6 | | 0 | | 0 | FIII | | | | TWA-B004-6.0 |
| No. | - ₇ - | <u> </u> | | | 6 | Eill | | X | , | _ |
| 1.5 | | | | Wet | 0 | ΓIII | | No Recovery | | |
| TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TW | 8 | | | | | | | 8 | | |
| TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TWA-B004-10. TW | ⊢ ₉ – | | | | | | | 8 | | |
| Wet 6 Fill Wet | | | | | | | | 8 | | |
| 11 | 10 | 1.5 | U | | | F:11 | | Ones de la Deserve (40)// | 2.5/0\ 4.0 d.0 ND5D0_ | TWA-B004-10.0 |
| Wet 6 | ⊢ ₁₁ - | <u> </u> | 0 | vvet | 6 | FIII | | | | |
| 13 | | | | | | | | X | nt, wet, 1003C. 140 0001. | |
| 14 | 12 | 1 | | Wet | 6 | Fill | | No Recovery | | |
| TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-17. TWA- | | | | | | | | X | | |
| TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-15. TWA-B004-17. TWA- | |] | | | | | | X | | |
| Moist 7 PT | 14 | | | | | | | \otimes | | |
| 16 | 15 | 3 | 0 | | | | | X | | TWA-B004-15.0 |
| Moist 7 PT | | | 0 | | | Fill | | | | - |
| 17 | 10 | | | Moist | / | ы | | incaidin odna dna o | VP 2/2) PEAT (Meadow mat), little Silty | |
| Moist 7 PT Moist 8 SM Mois | 17 | | 0 | | | | | Clay moist semi-co | hesive, stiff. No odor. | TWA-B004-17.0 |
| Moist 7 PT Moist 7 PT Moist 7 PT Moist 7 PT Moist 8 SM Mois | _ | <u> </u> | | | | | 71/ 11/ | <u></u> | , | |
| 19 | | | | Moist | 7 | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | No Recovery | | |
| TWA-B004-20. TWA-B004-20. TWA-B004-20. TWA-B004-20. TWA-B004-20. TWA-B004-20. TWA-B004-20. TWA-B004-22. TWA- | 19 | | | | | | 1, 11, 11 | _ | | |
| Moist 7 PT Moist 7 PT Moist 7 PT Moist Sity Clay, moist, semi-cohesive, stiff. No odor. TWA-B004-22. Clay TWA-B004-22. | ⊢ ₂₀ – | 2.5 | 0 | | | | | | | TWA-B004-20.0 |
| Moist 8 SM No odor. TWA-B004-22. | | | | Moist | 7 | PT | | Very Dark Brown (10 | YR 2/2) PEAT (Meadow mat), little Silty | |
| Moist 8 SM Gray (10YR 5/1) very fine SAND, trace Silt, moist, dense. TWA-B004-22.0 | 21 | | - 0 | | | | 1, 11, 11 | Clay, moist, semi-co | hesive, stiff. No odor. | |
| No odor. No Recovery No | | | | | | | 11, 11, | ,1 | | TWA-B004-22.0 |
| No Recovery Total Control Con | | | | | | | | Gray (10YR 5/1) very | fine SAND, trace Silt, moist, dense. | TWA-B004-22.0 |
| 24 | | | | Moist | 8 | SM | | | / | |
| End of boring at 25 ft. | _24 | | | | | | | No Necovery | | |
| End of boring at 25 ft. | 25 - | | | | | | | | | |
| 26 -27 -28 -29 -30 -31 -32 -33 -34 -35 | | | | | | | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | End of boring at 25 ft | | |
| -28 -29 -30 -31 -32 -33 -34 -35 | 26 | | | | | | | | | |
| -28 -29 -30 -31 -32 -33 -34 -35 | ⊢ ₂₇ – | | | | | | | | | |
| - 29 | | | | | | | | | | |
| -30 - -31 - -32 - -33 - -34 - -35 - | 25 -26 -27 -28 | | | | | | | | | |
| -30 - -31 - -32 - -33 - -34 - -35 - | ⊢ ₂₉ – | | | | | | | | | |
| -31 - -32 - -33 - -34 - -35 - | | | | | | | | | | |
| -32 - -33 - -34 - -35 - | 30 | 1 | | | | | | | | |
| -33 - -34 - -35 - | 31 |] | | | | | | | | |
| -33 - -34 - -35 - | L ₂₂ – | | | | | | | | | |
| - ₃₄ - - ₃₅ - | JZ | | | | | | | | | |
| 35 | 33 |] | | | | | | | | |
| 35 | L ₃₄ - | - | | | | | | | | |
| | J-4 | 1 | | | | | | | | |
| Comments: No COPR/GGM identified at this location. Sampled on 4/6/12. | | | | | | | | | | |
| | Comments | : No COPR/ | GGM id | dentified at t | his locat | ion. Sample | d on 4/6/12. | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: TWA-5**

Page: 1 Project Name: PPG 10 West Drilling Company: SGS **Project Number:** 60154801.0004.2 Drilling Method: GeoProbe Coordinates (NJSPNAD83) x: 610631.7 Date Started Drilling: 4/5/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682542.2 Date Finished Drilling: 4/5/2012 Core Size: 1.5 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5.5 ft Logged By: M. Merdinger Physical Location: Indoors Elevation: 15.2 ft NAVD88

| | Pnysicai | Location: | Indo | ors | | | | Elevation: 15.2 π NAVD88 (Note bgs = below gro | und ourfood) |
|--|------------------------------|---------------------|--------------|---------------------|-----------|--------------|----------------|---|------------------|
| | Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| GP, | -, - | 3.5 | 0 | Dry | | CONCRET | Er A PA | CONCRETE, (N 8/) white, dry , no staining, no rebar. | TIMA D005 4.0 |
| GS. | _1 | | 0 | Dry | 3 | FILL | | fine SAND, and fill material (concrete, brick, coal, gravel), | TWA-B005-1.0 |
| R | _2 - | | | | | | | (10YR 4/2) dark grayish brown, medium dense, dry, no odor | |
| BO | | | | | | | | | |
| EST | 3 | | | | | | | | TWA-B005-3.0 |
| 0 \ | - ₄ ⊢ | | | Dry | 3 | FILL | | NO RECOVERY | |
| ES/1 | | | _ | | | | | TO RESOVER | |
| SITE | 5 | 1.2 | 0 | NA-:-4 | _ | | | AOLL | |
| OF | ⁻ 6 ⊢ | | | Moist to | 6 | FILL | | ASH, and cinders trace fill material, (10YR 2/1) black, loose, moist to wet, no odor, (trace glass), wet at 5.5 ft. | TWA-B005-6.0 |
| J | | | | Wet | 6 | FILL | | NO RECOVERY | |
| 3RC | 7 | | | Wet | | | | NONEOOVER | |
| Ë | ⁻ 8 → | | | | | | | | |
| ÆΝ | | | | | | | | | |
| Ρ | 9 | | | | | | | | |
| ᆵ | ⁻ 10 ⁻ | 0.8 | 0 | | | | | | TWA-B005-10.0 |
| ARF | | | | Wet | 6 | FILL | | ASH, and cinders trace fill material, (10YR 2/1) black, loose, | |
| 7.6 | | | | Wet | 6 | FILL | | wet , no odor, (trace glass) | |
| SE | ⁻ 12 ⁻ | | | | | | | NO RECOVERY | |
| 핑 | | | | | | | | | |
| PG | 13 | | | | | | | | |
| 쭚 | 14 | | | | | | | | |
| WO | | 2.0 | 0 | | | | | | TMA DOOF 45 0 |
| SIC | 15 | 3.6 | | Wet | 6 | FILL | | very fine SAND, little silt, (7.5YR 5/3) brown, loose, wet , no | TWA-B005-15.0 |
| Ē | | | 0 | , vvei | U | | | odor | |
| MY | - ₁₇ - | | | Moist | 7 | PT | 71 71 7 | 90% PEAT (Meadow Mat), 5% silt 5% clay, (7.5YR 3/3) dark | TWA-B005-17.0 |
| VTS | | | | | | | 1/ 1/1/ 1/1/ | brown, firm, moist , no odor | 1 VVA-BUUS-17.U |
| ME | 18 | | | | | | 71/ 71/ 71 | | TWA-B005-18.0 |
| 20 | - ₁₉ - | | | | _ | | 1, 11, 11, | | |
| Λ | | | _ | Moist | 7 | PT | <u> </u> | NO RECOVERY | |
| M | 20 | 4.2 | 0 | | | | 1/ 1// 1// | | TWA-B005-20.0 |
| ¥ | | | 0 | Moist | 7 | PT | 711/11/11 | 90% PEAT (Meadow Mat) PEAT, 5% clay 5% silt, (7.5YR | |
| Š | | | | Moist | 9 | SM | | 3/3) dark brown, firm, moist , no odor SILT, little very fine sand trace clay, (10YR 5/2) grayish | |
| STA | _22 | | | | | | | brown, soft, moist, no odor | TWA-B005-22.0 |
| (GS) | -23 | | | | | | | | |
| SETTINGS\STANCHAKMMY DOCUMENTS\MY EQUIS WORK\PPG_JERSEY\GARFIELD AVENUE GROUP OF SITES\10 WEST BORINGS.GPJ | | | | | | | | | |
| | 24 | | 0 | NA-: 1 | | 0.0 | | Distriction CAND (40VD 0/4) | |
| ₽ND | 25 | | | Moist Moinst | 8 8 | SP SP | - | very fine SAND, (10YR 6/1) gray, very dense, moist , no odor | |
| TS, | | | | WIGHTSU | | <u> </u> | | NO RECOVERY | |
| MEN | 26 | | | | | | | End of boring at 25 ft. | |
| Ş | | | | | | | | | |
| 9 | | | | | | | | | |
| 11:13 - C:\DOCUMENTS AND | _28 | | | | | | | | |
| 1:13 | _29 | | | | | | | | |
| 121 | _ ₃₀ | | | | | | | | |
| 2/1/ | | | | | | | | | |
| Ë | 31 | | | | | | | | |
| 3.GE | | | | | | | | | |
| Ĭ | J <u>L</u> | | | | | | | | |
| SNC | _33 | | | | | | | | |
| STL | _ ₃₄ | | | | | | | | |
| - GINT STD US LAB.GDT - 5/7/12 | | | | | | | | | |
| | 35 | N. 00==: | 001:: | L ee | | | 1 4/0// = | | |
| PPG | Comments | : No COPR/ | GGM ic | tentified at th | nis locat | tion. Sample | d on 4/6/12. | | |



Boring ID: TWA-6

Page: 1

 Project Name:
 PPG 10 West
 Drilling Company:
 SGS

 Project Number:
 60154801.0004.2
 Drilling Method:
 GeoProbe
 Coordinates (NJSPNAD83) x:
 610588.7

 Date Started Drilling:
 4/4/2012
 Rig Type:
 6610DT
 Coordinates (NJSPNAD83) y:
 682453.4

Date Finished Drilling: 4/4/2012 Core Size: 1.5 in Boring Total Depth: 25 ft

Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 6.0 ft

Physical Location: Indoors

Floration: 15 2 ft NAV/D88

| | Location: | | | | 1 | | Elevation: 15.2 ft NAVD88 | |
|----------------------------|---------------------|--------------|---------------------|-----|------------|---|---|------------------|
| | | | | | | | (Note bgs = below gro | und surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| -, - | 3.5 | 0 | Dry | 1 | CONCRET | FA AAAA | CONCRETE, (N 8/) white, dry , no staining, no rebar | TIAVA D000 4 |
| 1 | | 0 | Moist | 3 | FILL | | fine to medium SAND, some concrete and cinders, (10YR | TWA-B006-1. |
| 2 - | | | | | | | 4/2) dark grayish brown, loose, moist , no odor | |
| | | | | | | | | TIMA BOOK O |
| 3 | | | | | | | | TWA-B006-3 |
| 4 – | | | Moist | 3 | FILL | | NO RECOVERY | |
| 5 | 0.4 | 0 | | | | | | TWA DOOG 5 |
| _ວ | 0.4 | | Moist | 3 | FILL | | ¬ fine SAND, little angular gravel, (7.5YR 5/4) brown, loose, ¬ | TWA-B006-5 |
| 6 | | | Moist | 3 | FILL | | \moist , no odor | |
| 7 | | | | | | | NO RÉCOVERY | |
| | | | | | | | | |
| 8 | | | | | | | | |
| -9 - | | | | | | | | |
| | | | | | | | | |
| 10 | 0 | | N4. 1 1 | | F., . | | NO DECOVEDY for this internal | |
| - ₁₁ – | | | Moist | 3 | FILL | | NO RECOVERY, for this interval | |
| - 40 = | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| | | | | | | | | |
| 14 | | | | | | | | |
| 15 | 2.4 | 0 | | | | | | TWA-B006-15 |
| - ₁₆ – | | 0 | Wet | 6 7 | FILL PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ASH, and cinders, (5YR 4/1) dark gray, loose, wet, no odor 80% PEAT (Meadow Mat), 10% silt 5% clay trace fine sand, | |
| | | | Wet | ' | PI | 1, 11, 11, | (5YR 3/2) dark reddish brown, medium dense, wet, no odor | |
| 17 | | | | | | 11/11/11/11 | (0111 0/2) dant roddion brown, modiam donoo, wot, no oddr | TWA-B006-17 |
| _ 18 | | | Wet | 7 | PT | 71 71 71 | NO RECOVERY | |
| - 40 - | | | | | | 1, 11, 11, | | |
| 19 | | | | | | <u> </u> | | |
| _20 | 4 | 0 | | | | | | TWA-B006-20 |
| | | | Wet | 7 | PT | 71 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/ | 80% PEAT (Meadow Mat), 10% silt 5% clay trace fine sand, | |
| 21 | | | | | | 1, 11, 11, | (5YR 3/2) dark reddish brown, medium dense, wet , no odor | |
| 22 | | 0 | | _ | | 11/1/1/1 | | TWA-B006-22 |
| | | | Wet | 8 | SP | | very fine SAND, (5YR 4/1) dark gray, loose, wet , no odor | |
| | | | | | | | | |
| 24 | | | 10/-4 | | CD | | NO DECOVEDY | |
| 25 | | | Wet | | SP | | NO RECOVERY | |
| - 00 _ | | | | | | | End of boring at 25 ft. | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| | | | | | | | | |
| 31 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | 1 | I | 1 1 | | | | |
| 33 | | | | | | | | |
| | | | | | | | | |
| 33 | | | | | | | | |

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: TWA-7

Project Name: PPG 10 West Drilling Company: SGS

Project Number: 60154801.0004.2 Drilling Method: GeoProbe Coordinates (NJSPNAD83) x: 610548.0

Date Started Drilling: 4/4/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682332.6

Date Finished Drilling: 4/4/2012 Core Size: 1.5 in Boring Total Depth: 25 ft

Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 5.0 ft

| Physical | Location: | Indo | ors | | | | Elevation: 15.6 ft NAVD88 | |
|----------------------------|---------------------|--------------|---------------------|-----------|-----------------|----------------|---|---------------------------------|
| | | | | | | | (Note bgs = below gro | ound surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample Number |
| 1 2 | 3 | 0 | Dry Dry | 3 | CONCRET FILL | | CONCRETE, (N 8/) white, dry , no staining, no rebar. fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 5/3) brown, loose, dry , no odor, (brick, cinders, concrete) | TWA-B007-1.0 |
| _3 - | | | | | | | | TWA-B007-3.0 |
| _4 | | • | Dry | 3 | FILL | | NO RECOVERY | |
| 5 | 1 | 0 | Wet | 3 | FILL | | fine to medium SAND, and fill material, (7.5YR 2.5/1) black | TWA-B007-5.0 |
| 6 | | | | | | | (10YR 5/3) brown, loose, wet , no odor, (brick, cinders, | |
| _7 _8 _9 | | | Wet | 3 | FILL | | concrete) NO RECOVERY | |
| | | 0 | | | | | | |
| | 2.8 | 0 | Wet | 3 | FILL | | very fine SAND, and silt little ceramics, (7.5YR 3/2) dark brown, loose, wet, no odor, (little cinders) | TWA-B007-10.0 |
| 12 | | 0 | | | | | , | TWA-B007-12.0 |
| 13 - 14 | | - | Wet | 3 | FILL | | NO RECOVERY | |
| 15 | 4 | 0 | | | | | | TWA-B007-15.0 |
| 16 | - | 0 | Wet | 3 | FILL | | very fine SAND, and silt little ceramics, (7.5YR 3/2) dark brown, loose, wet, no odor, (little cinders) | TWA-B007-13.0 |
| 17 18 | | | Moist | 7 | OL | | SILT, trace clay trace organics, (10YR 2/1) black, medium stiff, moist , no odor | TWA-B007-17.0 |
| 19 | | | Maiat | 7 | 01 | === | NO DECOVEDY | TWA-B007-19.0 |
| _20 | 3.8 | 0 | Moist | | OL | | NO RECOVERY | TWA-B007-20.0 |
| 21 | | 0 | Moist Moist | 7 | OL OH | | SILT, trace clay trace organics, (10YR 2/1) black, medium stiff, moist, no odor silty CLAY, some phragmite roots, (7.5YR 4/1) dark gray, | |
| 22 | | 0 | | · | . | | stiff, moist, no odor | TWA-B007-23.0 TWA-B007-23.0X |
| 24 | | 0 | Moist Moist | 8 | SM SM | - | very fine SAND, little silt trace shells, (7.5YR 4/1) dark gray, medium dense, moist , no odor | 1777 2007 20.07 |
| | | | | | | <u> </u> | NO RECOVERY End of boring at 25 ft. | |
| 27 | | | | | | | | |
| | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 35 | | | | | | | | |
| | : No COPR/ | GGM id | lentified at th | nis locat | ion. Sample | d on 4/6/12. | | 1 |



Boring ID: TWA-8

Page: 1 Project Name: PPG 10 West Drilling Company: SGS **Project Number:** 60154801.0004.2 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610611.1 Date Started Drilling: 4/5/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682653.5 Date Finished Drilling: 4/5/2012 Core Size: 2 in Boring Total Depth: 25 ft Depth to Water: 5.8 ft Logged By: M. Merdinger Project Manager: Robert Cataldo Physical Location: Indoors Elevation: 15.5 ft NAVD88

| Physical | Location: | Indo | ors | | | | Elevation: 15.5 ft NAVD88 | |
|--|---------------------|--------------|---------------------|------------|---------------|-------------------|--|------------------|
| <u> </u> | | | | | | | (Note bgs = below gr | ound surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness. | Sample Number |
| 5 | 3.5 | 0 | Dry | 1 | Fill | | Trince Controlete, no stairing, acrose. | TIMA D000 4.0 |
| <u> </u> | | 0 | Moist | 3 | Fill | | Brown (7.5YR 4/2) fine SAND and FILL (coal, brick, | TWA-B008-1.0 |
| ⊢ 2 − | | 0 | | | | | concrete, ash), little Silt, dense, moist. No odor. | |
| | | | | | | | | |
| 3 | | | | | | \longrightarrow | Q B (40VD 5/0) A 0 U L 0 INDEDO | TWA-B008-3.0 |
| :⊢ ₄ – | | | Moist Moist | 6 | Fill Fill | | Grayish Brown (10YR 5/2) ASH and CINDERS, moist, loose. No odor. | _ |
| | | | IVIOISE | " | | | No Recovery | |
| 5 | 2.7 | 0 | | | | \longrightarrow | X | TWA-B008-5.0 |
| 5 - 6 − | - | 0 | Moist | 6 | Fill | | Grayish Brown (10YR 5/2) ASH and CINDERS, moist, loose. No odor. | |
| 5 |] | 0 | Wet | 3 | Fill | | Reddish Brown (5YR 5/3) fine SAND, some Silt, trace | |
| 7 | | U | - | | | | treated wood, wet, loose. No odor. | TWA-B008-7.0 |
| { -8 - | | | 10/-4 | | — :::: | \longrightarrow | No Bossess | _ |
| |] | | Wet | 3 | Fill | | No Recovery | |
| 9 | 1 | | | | | | | |
| l⊢ ₁₀ − | 1.8 | 0 | | | | | X | TWA-B008-10.0 |
| | | 0 | Wet | 6 | Fill | | Grayish Brown (10YR 5/2) ASH and CINDERS, moist, | |
| 11 | | - | | | | | loose. No odor. | |
| 12 - | | | | | | | | |
| |] | | Wet | 6 | Fill | | No Recovery | |
| 13 | | | | | | | | |
| H ₁₄ - | - | | | | | | | |
| |] _ | 0 | | | | | | |
| 15 | 3 | - 0 | 10/04 | | T:II | | Daddish Draws (EVD E/O) fine CAND come Cill trees | TWA-B008-15.0 |
| 1 | | 0 | Wet | 3 | Fill | | Reddish Brown (5YR 5/3) fine SAND, some Silt, trace interbedded organic Clay, trace treated wood, wet, loose. No | |
| |] | 0 | | | | | odor. | TIA/A D000 47.0 |
| 17 | <u> </u> | | Moist | 7 | PT | 17 17 | Dark Reddish Brown (7.5YR 3/3) PEAT (Meadow mat), high | TWA-B008-17.0 |
| 18 - | - | | | | | 1/ /1// | odor | |
| | | | Moist | 7 | PT | 11/1/1/ | odor. No Recovery | |
| 19 | | | | | | 1/ 1/1/ 1/ | <u>12</u> | |
| _20 | 4.5 | 0 | | | | 11, 11, | | TWA-B008-20.0 |
| | | 0 | Wet | 8 | SM | | Dark Grayish Brown (10YR 4/2) SILT and very fine SAND, | |
| 21 | <u> </u> | | 1 | | | | wet, soft. No odor. | |
| | | 0 | | | | | | TWA-B008-22.0 |
| ====================================== | - | 0 | Moist | 9 | ML | | Gray (Gley I 6/0) SILT, little fine angular Gravel, very dense, | _ |
| | <u> </u> | | IVIOISE | 9 | IVIL | | moist. No odor. | |
| 24 | | | | | | | o.c. no cao | |
| ــ ــ ــ | | | Maiat | | N AL | | No December | _ |
| 25 | | | Moist | 9 | ML | + | No Recovery End of boring at 25 ft. | |
| 25 26 27 28 29 30 31 32 33 33 34 35 |] | | | | | | | |
| 27 - | - | | | | | | | |
| <u> </u> | 1 | | | | | | | |
| 28 | | | | | | | | |
| 29 - | | | | | | | | |
| <u> </u> | 1 | | | | | | | |
| 30 | | | | | | | | |
| . — 31 — | - | | | | | | | |
| 3 |] | | | | | | | |
| 32 | | | | | | | | |
| 3 – 33 – – | | | | | | | | |
| |] | | | | | | | |
| 34 | - | | | | | | | |
| 35 - | - | | | | | | | |
| | : No COPR/ | GGM ic | dentified at the | his locati | ion. Sample | d on 4/6/12. | | |
| :1 | | | | | p. 14 | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: TWA-9/ICO-13

 Logged By:
 M. Merdinger
 Project Manager:
 Robert Cataldo
 Depth to Water:
 6.0 ft

 Physical Location:
 Indoors

 Elevation:
 15.1 ft NAVD88

| Physical | Location: | Indo | ors | | | | | Elevation: 15.1 ft NAVD88 | |
|--|---------------------|--------------|---------------------|-----------|-----------------|---------|-------------|---|------------------|
| | | | | | | | | (Note bgs = below gro | und surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | Class | USCS | L | aphic og | Surface Cover and Thickness: | Sample Number |
| 5 1 2 3 4 4 5 5 5 6 6 7 7 8 9 10 6 11 7 12 12 | 3.3 | 0 | Dry Dry | 3 | CONCRET FILL | Er. | | CONCRETE, (N 8/) white, dry , no staining, no rebar. fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 4/3) brown, loose, dry, (Brick, coal, concrete, cinders) | ICO-B013-1.0 |
| 3 | | | | | | | | | ICO-B013-3.0 |
| 5 - | 1.9 | 0 | Dry | 3 | FILL | | | NO RECOVERY | ICO-B013-5.0 |
| 6 | 1.0 | 0 | Dry | 3 | FILL | | | fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 4/3) brown, loose, dry, (Brick, coal, concrete, cinders) | ICO-B013-6.0 |
| 7 | | | Wet | 6 | FILL | | | ASH, and cinders, (10YR 2/1) black, loose, wet , no odor | |
| 8 - | | | Wet | 6 | FILL | | | NO RECOVERY | |
| 10 | 2.3 | 0 | | | | | | | ICO-B013-10.0 |
| 11 | | | Moist | 3 | FILL | | | very fine SAND, little silt trace brick, (7.5YR 4/3) brown, medium dense, moist, no odor, trace organics. | |
| 12 | | | | | | | | | ICO-B013-12.0 |
| 13 | | | Moist | 3 | FILL | | | NO RECOVERY | |
| 14 - 15 | 4 | 0 | | | | | | | ICO-B013-15.0 |
| 16 | | 0 | Moist Moist | 3 , | FILL OL | | | very fine SAND, little silt trace organics, (7.5YR 4/3) brown, medium dense, moist , no odor | |
| 13 14 15 16 17 18 19 20 21 22 23 24 | | | MOISE | , | OL | | | organic SILT, little organics and roots, (10YR 2/1) black, stiff, moist, no odor | ICO-B013-17.0 |
| 19 | | | NA-i-4 | 7 | 01 | Ē | | NO PEOOLEDY | ICO-B013-19.0 |
| 20 | 4 | 0 | Moist | | OL | | | NO RECOVERY | |
| 21 - - ₂₂ - | | 0 | Moist | 9 | ML | | | SILT, little interbedded clay, (10YR 5/2) grayish brown, medium dense, moist , no odor | ICO-B013-21.0 |
| 23 | | 0 | Moist | 8 | SM | | | very fine SAND, trace silt, (10YR 5/1) gray, dense, moist , | ICO-B013-23.0 |
| 24 | | | Moist | 10 | SM | | | \no odor very fine to coarse SAND, and interbedded silt and roots, (10R 4/4) weak red, (7.5YR 4/3) brown (10YR 5/1) gray, | 100-5013-23.0 |
| 25 - | | | Moist | 10 | SM | | | dense, moist , no odor, trace organics. NO RECOVERY | |
| 25 26 27 28 29 30 31 32 33 34 34 | | | | | | | | End of boring at 25 ft. | |
| 27 - | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 - | | | | | | | | | |
| 33 - | | | | | | | | | |
| 34 | | | | | | | | | |
| | | | | | | | | | |
| Comments | : No COPR/ | GGM ic | lentified at the | his locat | ion. Sample | d on 4/ | 6/12. | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: TWA-10

Page: 1 Project Name: PPG 10 West Drilling Company: SGS **Project Number:** 60154801.0004.2 Drilling Method: GeoProbe Coordinates (NJSPNAD83) x: 610525.1 Date Started Drilling: 4/4/2012 Rig Type: 6610DT Coordinates (NJSPNAD83) y: 682491.7 Date Finished Drilling: 4/4/2012 Core Size: 1.5 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 6.0 ft Logged By: M. Merdinger Physical Location: Indoors Elevation: 15.1 ft NAVD88

| Physical | Location: | Indo | ors | | | Elevation: 15.1 ft NAVD88 | | | |
|---|---------------------|--------------|---------------------|-----|---------|---------------------------|--|------------------|--|
| | | | | | | | (Note bgs = below gr | ound surface) | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | | Graphic Log | Surface Cover and Thickness: | Sample Number | |
| 5 | 3.7 | 0 | Dry | . 1 | CONCRET | EPA APA | CONCRETE, (N 8/) white, dry, no staining, no rebar | | |
| <u> </u> | | 0 | Moist | 3 | FILL | | Construction DEBRIS (brick, concrete), some silt little | TWA-B010-1.0 | |
| ⊢ 2 − | - | | | | | | medium sand and coal, (7.5YR 4/3) brown, loose, moist , no | | |
| 3 | | | | | | | odor | | |
| 3 | | | | | | | | TWA-B010-3.0 | |
| - 4 | | | | | | | | | |
| | 1 | | Moist | 3 | FILL | | NO RECOVERY | | |
| 5 | 2 | 0 | | | | | | TWA-B010-5.0 | |
| $\frac{2}{5}$ $\frac{1}{6}$ $\frac{1}{6}$ | | 0 | Moist | 3 | FILL | | fine SAND, little silt, (7.5YR 4/3) brown, medium dense, | | |
| <u> </u> | <u> </u> | | Wet | 6 | FILL | | moist , no odor | | |
| 7 | | | VVCI | U | I ILL | | fine sandy CINDERS, some ash little coal, (10YR 2/1) black, loose, wet, no odor | TWA-B010-7.0 | |
| | | | Wet | 6 | FILL | | NO RECOVERY | | |
| 8 | <u> </u> | | | | | | | | |
| - - | - | | | | | | | | |
| 12 - | | 0 | | | | | | T B | |
| 5 1 2 3 4 4 5 6 7 7 8 9 10 6 11 7 12 | 2.9 | ļ <u>U</u> | | _ | | | for each ONDEDO | TWA-B010-10.0 | |
| 5 11 - | <u> </u> | 0 | Moist | 6 | FILL | | fine sandy CINDERS, some ash little coal, (10YR 2/1) black, loose, wet, no odor | | |
| | | | Moist | 3 | FILL | | CLAY, some silt graded to fine sand, (7.5YR 4/2) brown, | | |
| 12 | | | | | | | soft, moist, no odor | TWA-B010-12.0 | |
| - 13 − | | | | | | | | | |
| ; | | | Moist | 3 | FILL | | NO RECOVERY | | |
| 14 | 1 | | | | | | | | |
| 15 - | 3.6 | 0 | | | | | | TWA-B010-15.0 | |
| 5 | 0.0 | | Moist | 3 | FILL | | CLAY, some silt graded to fine sand, (7.5YR 4/2) brown, | 11171 2010 10:0 | |
| 16 | | 0 | | _ | 011 | | soft. moist . no odor | | |
| 17 - | | | Moist | 7 | ОН | | organic silty CLAY, some phragmite roots, (7.5YR 3/2) dark | TWA-B010-17.0 | |
| |] | | | | | | brown, stiff, moist, moderate sulfur odor | | |
| 18 | _ | | | | | | | TWA-B010-18.0 | |
| - 19 – | <u> </u> | | NA-:-4 | _ | 011 | | NO DECOVEDY | - | |
| | | | Moist | 7 | ОН | | NO RECOVERY | | |
| 20 | 4 | 0 | | _ | 0. | | | TWA-B010-20.0 | |
| - 21 - | | | Moist | 7 | OL | | organic SILT, trace organics interbedded with little fine sand, (7.5YR 3/2) dark brown, soft, moist, no odor | | |
| | | 0 | | | | | | | |
| 22 | | 0 | Moist | _ 8 | SM | | very fine SAND, some silt, (7.5YR 5/1) gray, soft, moist , no | TWA-B010-22.0 | |
| E⊢ ₂₃ – | | | Wet | 10 | SM | | odor fine SAND, little rounded medium gravel trace silt, (2.5YR | | |
| | | | | | | | 4/4) reddish brown, dense, wet, no odor | | |
| | | | 10/ / | 40 | 014 | | <u>'</u> | | |
| 25 - | | | Wet | 10 | SM | | NO RECOVERY | | |
| | | | | | | | End of boring at 25 ft. | | |
| 26 | - | | | | | | | | |
| E 27 - | | | | | | | | | |
| | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| |] | | | | | | | | |
| 30 | - | | | | | | | | |
| .̂├ ₃₁ - | 1 | | | | | | | | |
| | | | | | | | | | |
| 32 | - | | | | | | | | |
| 5⊢ ₃₃ – | 1 | | | | | | | | |
| | | | | | | | | | |
| 34 | - | | | | | | | | |
| 35 - | <u></u> | | <u></u> | | <u></u> | | | | |
| Comments: No COPR/GGM identified at this location. Sampled on 4/5/12. | | | | | | | | | |
| | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: TWA-11/ICO-16

 Project Name:
 PPG 10 West
 Drilling Company:
 SGS

 Project Number:
 60154801.0004.2
 Drilling Method:
 GeoProbe
 Coordinates (NJSPNAD83) x:
 610487.6

 Date Started Drilling:
 4/4/2012
 Rig Type:
 6610DT
 Coordinates (NJSPNAD83) y:
 682414.3

 Date Finished Drilling:
 4/4/2012
 Core Size:
 1.5 in
 Boring Total Depth:
 25 ft

 Logged By:
 M. Merdinger
 Project Manager:
 Robert Cataldo
 Depth to Water:
 10.0 ft

Physical Location: Indoors Elevation: 15.6 ft NAVD88 (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) 2.6 Dry 1 CONCRETE CONCRETE, (N 8/) white, dry, no staining, no rebar ICO-16-1.0 0 BORINGS Dry 3 **FILL** SILT, little very fine sand and fine gravel, (10YR 4/3) brown, dense, dry to moist, no odor, angular, trace Red-Brown fine to 2 Moist 3 JERSEY/GARFIELD AVENUE GROUP OF SITES/10 WEST ICO-16-3.0 NO RECOVERY 3 **FILL** Moist 4 0 5 2.5 ICO-16-5.0 3 FILL SILT, little very fine sand and fine gravel, (10YR 4/3) brown, Moist 6 medium dense, moist, no odor, angular, trace Red-Brown fine Sand, trace ash and cinders 0 ICO-16-7.0 FILL SILT, some very fine sand trace coarse sand, (5YR 4/3) Moist 3 8 reddish brown, dense, moist , no odor **FILL** Moist 3 **NO RECOVERY** 9 0 10 3 **FILL** SILT, and fine to coarse sand, (5YR 4/3) reddish brown, Wet 11 ICO-16-11.0 loose, wet to moist, no odor, moist at 11 ft to Moist 12 13 ICO-16-13.0 EQUIS WORK/PPG 3 **FILL** NO RECOVERY Moist 14 0 15 4 ICO-16-15.0 Wet 3 FILL SILT, and very fine sand trace coarse sand, (10YR 4/3) 16 brown, soft, wet, no odor SETTINGS/STANCHAKM/MY DOCUMENTS/MY 0 17 ICO-16-17.0 7 OL organic SILT, trace phragmite roots, (10YR 2/1) black, soft, Moist 18 moist, no odor 19 ICO-16-19.0 Moist 7 OL NO RECOVERY 0 20 3.8 7 ОН organic CLAY, trace phragmite roots, (10YR 2/1) black, stiff, Moist 21 ICO-16-21.0 moist . no odor 0 22 fine SAND, little medium to coarse sand trace silt, (2.5YR Wet 10 SM 4/4) reddish brown, loose, wet, no odor ICO-16-23.0 23 ICO-16-23 0X 24 Wet 10 SM NO RECOVERY C:\DOCUMENTS AND 25 End of boring at 25 ft. 26 27 28 STD US LAB.GDT - 5/7/12 11:13 -29 30 31 32 33 34 GINT Comments: No COPR/GGM identified at this location. Sampled on 4/5/12.