

Table 4-1
 Sample Investigation Details
 Garfield Avenue Group
 PPG, Jersey City, New Jersey

Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
Soil RI Borings								
EF-03	4/12/2011	30.0	611583.8	683818.0	-	-	Coal tar odor	No COPR/GGM identified at this location.
EF-04	N/A-See EF-04B	5.0	611733.9	683770.4	-	-	-	Refusal at 5 ft bgs. See EF-04B. No COPR/GGM identified at this location.
EF-04B	4/14/2011	15.0	611741.7	683781.5	-	-	Coal ash	Refusal at 15 ft bgs. No COPR/GGM identified at this location.
EF-05	4/13/2011	25.0	611683.3	683662.2	0.4 - 2 = 50% 2 - 2.5 = 5%	-	Coal, cinders, ash, slight petr. odor, coal tar odor	-
EF-06	4/13/2011	25.0	611753.9	683586.8	0.5 - 5.0 = 10%	-	Coal tar odor	-
EF-07	4/14/2011	25.0	611907.0	683429.4	-	-	-	Original boring log identified potential CCPW at this location from 1.3 - 3.0 ft bgs. A verification test pit (EF-07-TP) advanced in November 2017 determined COPR was not present at this location.
EF-08	4/14/2011	25.0	611918.6	683362.3	-	-	-	Original boring log identified potential CCPW at this location from 0.3 to 5.0 ft bgs. A verification test pit (EF-08-TP) advanced in November 2017 determined COPR was not present at this location.
EF-09	4/15/2011	25.0	611820.6	683264.2	-	-	Coal tar odor	No COPR/GGM identified at this location.
EF-10	4/15/2011	25.0	611660.8	683123.2	-	-	Cinders, ash, pet. odor, viscous oil	No COPR/GGM identified at this location.
EF-11	5/9/2011	25.0	611714.4	683033.8	-	-	Ash, cinders, coal tar odor	No COPR/GGM identified at this location.
EF-14	5/9/2011	25.0	611459.4	682763.5	-	-	Ash, cinders, coal tar, petroleum odor	No COPR/GGM identified at this location.
EF-17	4/20/2011	25.0	611494.7	682560.8	-	-	-	No COPR/GGM identified at this location.
EF-18	4/20/2011	25.0	611410.0	682481.9	-	-	-	No COPR/GGM identified at this location.
EF-19	4/19/2011	25.0	611215.9	682371.9	-	-	Napthalene odors	No COPR/GGM identified at this location.
EF-20	4/19/2011	25.0	611129.0	682221.1	-	-	-	No COPR/GGM identified at this location.
EF-21	4/19/2011	25.0	611037.1	682131.0	-	-	Slight sheen @ 5 ft bgs	No COPR/GGM identified at this location.
EF-22	4/19/2011	25.0	610965.4	682066.3	-	-	Sulphur odor	No COPR/GGM identified at this location.
EF-26	4/18/2011	24.0	610746.5	682562.5	5 - 7 = 100% 10 - 11 = 75%	12 - 13.5	-	-
EF-27	4/21/2011	25.0	610768.8	682665.4	3.5 - 5 = 30%	5.9 - 17.3	Cinders, ash, soil odor	-
EF-28	4/22/2011	25.0	610690.3	682679.8	-	-	Some cinders	No COPR/GGM identified at this location.
EF-29	4/22/2011	25.0	610571.8	682736.3	-	-	Some ash	No COPR/GGM identified at this location.
EF-34	4/25/2011	25.0	610641.9	683188.9	-	-	Some slag, coal	No COPR/GGM identified at this location.
EF-35	4/22/2011	18.0	610667.3	683255.6	-	-	Some slag, coal	No COPR/GGM identified at this location.
EF-36	4/25/2011	25.0	610619.9	683269.9	-	-	-	No COPR/GGM identified at this location.
EF-37	4/25/2011	16.5	610679.5	683445.8	-	-	Some slag, ash, coal	Refusal at 16.5 ft bgs. No COPR/GGM identified at this location.
EF-38	See EF-38A	3.5	610761.2	683530.0	-	-	Some slag	Concrete refusal at 1.4 ft bgs & 3.5 ft bgs.
EF-38A	4/25/2011	23.0	610761.7	683534.2	-	-	Ash, cinders	Refusal at 23 ft bgs. No COPR/GGM identified at this location.
EF-39	4/26/2011	25.0	610822.8	683631.9	-	-	Ash, cinders	No COPR/GGM identified at this location.

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EF-40	4/26/2011	25.0	610859.1	683692.3	-	-	Ash, cinders	No COPR/GGM identified at this location.
EF-41	4/29/2011	25.0	610928.0	683804.3	-	-	-	No COPR/GGM identified at this location.
EF-42	4/29/2011	22.0	611001.9	683907.6	-	-	-	Location moved to sidewalk. Refusal at 22 ft bgs. No COPR/GGM identified at this location.
EF-43	4/29/2011	25.0	611069.8	683962.3	-	-	-	Location moved to sidewalk. No COPR/GGM identified at this location.
EF-47	5/26/2011	15.0	611982.1	683470.9	-	-	-	No COPR/GGM identified at this location.
EF-48	5/25/2011	15.0	611976.6	683321.8	-	-	Ash, cinder, coal slag	No COPR/GGM identified at this location.
EF-49	5/25/2011	15.0	611399.4	682675.5	0.40 - 1.0 = 25% 1.0 - 2.5 = 40% 2.7 - 3.5 = 25%	-	Ash, cinders, coal	-
EF-57/ICO-22	6/3/2011	20.2	611820.5	683629.9	0.8 - 1.0 = 5%	-	-	Refusal at 20.2 ft bgs.
EF-58	6/7/2011	3.0	611828.9	683276.1	-	-	-	No COPR/GGM identified at this location.
EF-67	6/8/2011	3.0	610689.6	683449.4	-	-	-	No COPR/GGM identified at this location.
EF-68	6/8/2011	3.0	610655.2	683462.4	-	-	-	No COPR/GGM identified at this location.
EF-69	6/8/2011	3.0	610752.4	683523.9	-	-	-	No COPR/GGM identified at this location.
EF-70	6/8/2011	3.0	610765.7	683546.6	-	-	-	No COPR/GGM identified at this location.
EF-71	6/8/2011	3.0	610997.1	683898.8	-	-	Cinders, little coal fragments	No COPR/GGM identified at this location.
EF-72	6/8/2011	3.0	611011.4	683913.7	-	-	Cinders, little coal fragments	No COPR/GGM identified at this location.
EF-73	8/8/2011	25.0	611767.9	683639.1	-	-	-	No COPR/GGM identified at this location.
EF-74	8/5/2011	25.0	611839.0	683741.2	-	-	Ash, coal, cinders	No COPR/GGM identified at this location.
EF-75	8/8/2011	20.0	611868.4	683678.2	-	-	-	No COPR/GGM identified at this location.
EF-81	8/4/2011	1.0	610425.5	682307.1	-	-	-	No COPR/GGM identified at this location.
EF-82	8/4/2011	1.0	610419.6	682331.3	-	-	Ash, cinders, petroleum odor	No COPR/GGM identified at this location.
EF-83	8/4/2011	1.0	610444.0	682335.0	-	-	-	No COPR/GGM identified at this location.
EF-84	8/4/2011	1.0	610446.0	682310.3	-	-	-	No COPR/GGM identified at this location.
EF-94	8/12/2011	3.0	611764.6	683044.8	-	-	Coal fragments	No COPR/GGM identified at this location.
EF-97	8/11/2011	3.0	611134.1	682206.0	-	-	-	No COPR/GGM identified at this location.
EF-98	8/11/2011	3.0	610971.8	682058.5	-	-	-	No COPR/GGM identified at this location.
ICO-04	8/9/2011	25.0	610365.6	682400.8	-	-	Coal, gasoline odor	No COPR/GGM identified at this location.
ICO-05	8/10/2011	8.5	610279.3	682297.3	-	-	-	Refusal at 8.5 ft bgs. No COPR/GGM identified at this location.
ICO-06	8/9/2011	10.0	610221.5	682221.6	-	-	Coal	Refusal at 10 ft bgs. No COPR/GGM identified at this location.
ICO-07	5/13/2011	25.0	610434.6	682322.8	-	-	Cinders, ash, coal tar odor, coal	No canal bottom identified. No COPR/GGM identified at this location.
ICO-08	5/12/2011	25.0	610546.2	682222.6	-	-	Cinders, coal fragments, coal tar odor	No canal bottom identified. No COPR/GGM identified at this location.
ICO-09	5/12/2011	20.0	610459.3	682217.4	-	-	Coal, cinders, ash	Possible canal bottom at 16.5 ft bgs. No COPR/GGM identified at this location.

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ICO-10	5/11/2011	25.0	610384.7	682154.5	-	-	Ash, cinders	No COPR/GGM identified at this location.
ICO-14	6/6/2011	20.0	610532.9	682676.4	-	-	Ash, cinders	No COPR/GGM identified at this location.
ICO-17	8/10/2011	16.0	610448.4	682524.7	-	-	-	Refusal at 16 ft bgs. No COPR/GGM identified at this location.
ICO-19	6/7/2011	20.0	611639.4	683733.8	6 - 7 = 80%	-	Ash, cinders	Refusal at 20 ft bgs.
ICO-21	6/3/2011	20.0	611849.5	683656.2	-	-	-	No COPR/GGM identified at this location.
ICO-20 (EF-46)	6/6/2011	20.0	611717.0	683682.2	-	-	-	No COPR/GGM identified at this location.
ICO-25	8/8/2011	15.0	611872.5	683509.0	-	-	Ash, cinders	No COPR/GGM identified at this location.
SCB-01	5/9/2011	35.0	610442.3	681982.5	-	-	Ash, cinders, coal fragments	No COPR/GGM identified at this location. Canal bottom from 16-20.1 ft bgs.
SCB-02	5/10/2011	30.0	610409.8	681997.8	-	-	Ash, cinders, coal fragement	No COPR/GGM identified at this location.
SCB-03	5/10/2011	30.0	610389.3	682014.4	-	-	Coal fragement, ash, cinders	No COPR/GGM identified at this location.
SCB-04	5/10/2011	25.0	610361.1	682021.8	-	-	Ash, cinders	No COPR/GGM identified at this location.
SCB-05	5/10/2011	25.0	610342.8	682032.2	-	-	Ash, cinders	No COPR/GGM identified at this location.
SCB-06	5/10/2011	25.0	610509.2	682098.6	-	-	Ash, cinders, coal	No COPR/GGM identified at this location.
SCB-07	5/11/2011	33.0	610484.7	682114.1	-	-	Ash, cinders	Canal bottom at 22 ft bgs. No COPR/GGM identified at this location.
SCB-08	5/11/2011	30.0	610447.9	682130.7	-	-	Petroleum odors, coal, slag	No COPR/GGM identified at this location.
SCB-09	5/11/2011	30.0	610423.3	682141.3	-	-	Petroleum odor, MGP odor, cinders, coal, trace sheen	No COPR/GGM identified at this location.
SCB-10 (ICO-10)	5/11/2011	25.0	610384.7	682154.5	-	-	Ash, cinders	No COPR/GGM identified at this location.
SCB-11	5/12/2011	25.0	610563.0	682207.4	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
SCB-12	5/12/2011	25.0	610546.2	682222.6	-	-	Cinders, coal fragments, coal tar odor	No canal bottom identified. No COPR/GGM identified at this location.
SCB-13	5/12/2011	25.0	610523.8	682241.8	-	-	Cinders, ash, coal tar odor, coal	Canal bottom at 15-18.5 ft bgs. No COPR/GGM identified at this location.
SCB-14	5/13/2011	25.0	610504.3	682251.1	-	-	Cinders, ash, coal	No COPR/GGM identified at this location.
SCB-15	5/13/2011	25.0	610490.2	682260.7	-	-	Cinders, ash, coal	No COPR/GGM identified at this location.
AE-1	7/8/2011	55 5"	611198.7	683942.9	-	-	Ash, cinders, coal tar-like odor	-
AE-2	7/18/2011	72 2"	611239.0	683932.1	6 - 8 = 10% 8 - 10 = 40%	-	Ash, cinders	-
AE-3	7/5/2011	50.0	611294.8	683914.3	6 - 8 = 25% 8 - 12 = 10%	-	Ash, cinders, coal	-
AE-4	8/1/2011	70 7"	611351.0	683894.5	6 - 10 = 10%	-	Ash, cinders	-
AE-5	7/22/2011	64 3"	611408.4	683875.2	-	6.0 - 17.0	Ash, cinders	-
114-MW16B	1/5/2007	35.5	610610.2	683366.4	-	-	-	Original boring log identified potential COPR from 4 - 4.5 ft bgs. Verification borings advanced in January 2017 determined COPR was not present at this location.

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114-MW21B	10/6/2006	34.0	611394.9	683875.4	0.5 - 2.8 = 30% 2.8 - 3.0 = 10%	7.0 - 16.0	-	-
132-B1	1/31/2007	24.0	610563.2	682929.6	-	-	-	No COPR/GGM identified at this location.
132-B2	1/30/2007	27.0	610591.1	683012.5	-	-	Ash	No COPR/GGM identified at this location.
133-B7	12/13/2006	32.0	610689.1	682200.0	-	-	Coal, ash, heavy petroleum odor	
135-B12	12/19/2006	28.0	610828.5	682027.5	-	-	Ash	No COPR/GGM identified at this location.
135-B13	12/20/2006	36.0	610895.3	682090.1	-	-	Ash	Sulfur odor
135-B14	12/20/2006	32.0	611058.0	682231.8	-	-	Ash	Sulfur odor; green staining at 2.5 ft bgs.
135-B15	12/22/2006	32.0	611127.9	682298.4	-	-	Ash	Sulfur odor
135-B16	12/22/2006	32.0	611271.1	682434.4	-	-	Ash, slight petroleum odor, rubber odor	Sulfur odor
135-B17	12/21/2006	28.0	611334.9	682503.1	-	-	Coal, ash	Sulfur odor
135-B18	12/21/2006	28.0	611409.2	682562.0	-	-	-	Sulfur odor
135-B19	1/2/2007	32.0	611417.0	682651.9	-	-	Ash, petroleum odor, naphthalene odor	Sulfur odor
135-B4	12/19/2006	32.0	610811.3	682149.6	-	-	Ash, coal	Sulfur odor
135-B5	3/27/2007	20.7	610782.1	682089.2	-	-	Coal	Sulfur odor
135-B6	3/26/2007	16.0	610927.7	682220.9	-	-	Coal, ash, hydrocarbon odor	-
135-MW1B	3/23/2007	32.5	610948.1	682129.6	-	-	Ash, coal	Sulfur odor
135-MW1C	3/30/2007	103.0	610951.3	682131.1	-	-	Ash, coal	Sulfur odor
A6	9/2/2002	16.0	610797.7	683480.2	-	-	Ash, coal	-
C9V	10/6/2006	36.0	611014.9	683837.4	-	-	-	-
GA	3/15/2004	20.0	610700.7	683335.9	-	-	-	-
GC	3/16/2004	12.0	610826.3	683596.4	-	-	-	-
GD	3/16/2004	12.0	610901.2	683725.6	-	-	-	-
GE	3/16/2004	27.0	610972.4	683842.2	-	-	-	-
GG	3/16/2004	16.4	611104.6	683959.4	-	-	-	-
HB	3/17/2004	4.0	611506.8	683014.5	0.5 - 4.0 = 25% COPR	-	-	-
HC	3/17/2004	35.0	611594.2	683103.0	-	-	Coal, ash, oil, sheen, cinders	-
HE	3/17/2004	12.0	611835.7	683324.5	0.5 - 4.0	-	-	-
HH	3/17/2004	12.0	611709.5	683202.5	-	-	Ash, cinder, sheen	-
HI	3/18/2004	20.0	611376.5	682874.9	-	-	Coal, ash	-
HK	3/18/2004	21.0	611513.6	683006.3	-	-	-	-
HL	3/18/2004	1.7	611834.2	683314.1	-	-	-	Original boring log identified potential CCPW at this location from 0.5 - 1.7 ft bgs. A verification test pit (HL-TP) advanced in November 2017 determined CCPW was not present at this location.
HM	3/18/2004	1.5	611843.1	683307.4	-	-	-	Wooden obstruction 1.5 - 2 ft bgs.

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HN	3/18/2004	9.0	611850.1	683306.4	-	-	-	-
OSB-2	9/7/2006	20.0	610944.6	683817.4	-	-	-	-
OSB-22	7/25/2006	30.0	611312.6	682776.0	1.0 - 1.5 = 25% 4.0 - 4.5 >10%	-	Cinders	-
OSB-23	7/20/2006	4.1	611442.6	682904.4	0.5 - 1.0 = 10% 1.8 - 2.2 = 20%	-	-	Refusal due to concrete slab.
OSB-24	7/31/2006	27.0	611601.4	683065.4	11.5 - 12.5 = 25%	-	Cinders, coal, ash, petroleum odor and sheen, naphthalene odor	-
OSB-25	7/31/2006	27.0	611637.9	683100.4	13.0 - 15.5 = 10% 19.0 - 20.0 = 10% 21.0 - 23.0 = 1%	-	Coal, ash, naphthalene odor	-
OSB-28	8/4/2006	28.0	611339.3	683894.6	2.0 - 2.5 = 100%	-	Cinders, ash	-
OSB-29	8/4/2006	26.0	611223.6	683935.3	1.0 - 2.5 = Trace	-	Coal, ash, cinders	-
OSB-3	9/19/2006	17.0	610885.3	683719.7	-	-	Petroleum odor	-
OSB-5	9/19/2006	18.0	610773.1	683535.2	-	-	-	-
OSB-6	9/20/2006	17.0	610730.6	683463.4	-	-	-	-
OSB-7	9/20/2006	16.0	610674.9	683371.9	-	-	-	-
X35	10/17/2005	24.0	611365.7	682844.7	-	-	-	Yellow water at 8.5 ft bgs.
X36	10/17/2005	24.0	611519.1	682986.9	1.0 - 1.5 = 75%	-	-	-
X37	10/17/2005	24.0	611612.3	683080.0	-	-	Coal, ash, petroleum - like odor	-
X38	10/17/2005	24.0	611723.4	683198.9	-	-	Coal, ash	-
PSEG-SB26	4/15/2004	78.0	611718.1	683020.7	-	-	Coal, fuel oil odors	-
PSEG-SB30	4/27/2005	78.0	611570.5	682885.3	-	-	Naphthalene-like odors	-
PSEG-SB31	4/8/2005	44.0	611677.2	683093.1	-	-	Coal fragments, gasoline odors, staining, ash, oil materials, naphthalene-like odors	-
PSEG-SB32	4/20/2005	52.0	611794.3	683244.1	-	-	Coal fragments, ash, gasoline and naphthalene-like odors, staining	-
PSEG-SB33	4/19/2005	59.5	612010.5	683282.3	-	-	-	-
PSEG-SB34	4/14/2005	55.0	611847.4	683458.7	-	-	-	-
PSEG-SB35	4/15/2005	50.0	611746.8	683567.5	-	-	-	-
PSEG-SB37	11/30/2006	30.0	611595.6	683812.1	0.0 - 2.0 = < 1% 2.0 - 4.1 = 50%	-	Sheen, fuel oil diesel odors	-

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PSEG-SB40	11/22/2006	56.0	611352.3	682811.6	0 - 4 = COPR	-	Ash, black staining, oil - like and naphthalene-like odors, sheen	-
PSEG-SB46	11/30/2006	26.0	611661.1	683681.9	1.5 - 2.0 = 1%	-	Coal, coal tar, naphthalene odor, MGP	-
PSEG-SB47	11/29/2006	36.0	611714.8	683601.3	0 - 4.0 = 1% COPR	-	Ash, naphthalene odors, brown oil material	Green water at 26 ft bgs. Some suspected pellets of COPR.
PSEG-SB48	11/29/2006	40.0	611792.9	683517.3	-	-	-	-
PSEG-SB49	11/15/2006	48.5	611841.6	683284.6	-	-	Oil material	-
PSEG-SB51	11/16/2006	45.8	611909.8	683349.1	-	-	-	-
PSEG-SB52	11/27/2006	56.0	611362.4	682708.4	-	-	Ash material, naphthalene-like odors	-
PSEG-SB54	11/28/2006	56.0	611396.1	682742.0	-	-	Ash material, naphthalene-like odors	-
PSEG-SB62	8/17/2007	31.0	611733.8	683634.1	0.3 - 5.0 = COPR	-	Naphthalene-like odor	COPR Pellets from 0.3 - 5.0 ft bgs.
SB25	4/19/2004	95.0	611476.9	682936.2	-	-	Coal, ash, naphthalene odors	Water has greenish tinge at 40 ft bgs.
114-MW20A							No Boring Log Available	
114-MW20B							No Boring Log Available	
BC8							No Boring Log Available	
GB							No Boring Log Available	
PSEG-SB45							No Boring Log Available	
TPA							No Boring Log Available	
TPB							No Boring Log Available	
Supplemental Soil RI Borings and Test Pits								
114-MW24A	12/1/2011	15.0	611670.0	683682.5	0.5 - 2.0 = 5% 2.0 - 2.5 = 10%	-	Coal tar odor	-
114-MW25A	12/2/2011	15.0	611787.9	683588.8	-	-	-	Yellow water identified at 6.3 and 11.0 ft bgs. No COPR/GGM identified at this location.
114-MW26A	11/30/2011	15.0	611900.8	683494.9	-	-	Coal tar odor	Coal Tar odor beginning at 6.0 ft bgs
114-MW27A	12/2/2011	20.0	611841.6	683638.6	-	-	-	No COPR/GGM identified at this location.
114-MW28A	11/30/2011	15.0	611972.7	683509.5	-	-	-	No COPR/GGM identified at this location.
EF-07-TP	11/15/2017	3.0	611906.7	683430.0	-	-	-	This test pit was advanced to confirm the presence or absence of CCPW observed at location EF-07. No CCPW observed.
EF-08-TP	11/15/2017	5.0	611919.1	683360.9	-	-	-	This test pit was advanced to confirm the presence or absence of CCPW observed at location EF-08. No CCPW observed.
EF-100	9/4/2012	3.0	611449.1	682687.4	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
EF-101	9/7/2012	25.0	611734.3	683021.7	-	-	Coal, ash, cinders, slag, hydrocarbon odor, slight sheen	No COPR/GGM identified at this location.

Table 4-1
 Sample Investigation Details
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Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
EF-102	9/7/2012	25.0	611707.5	683020.9	-	-	Coal, slight sheen, naphthalene odor	No COPR/GGM identified at this location.
EF-103	9/6/2012	25.0	611655.8	683051.1	-	-	Coal, ash, cinders, slight sheen, naphthalene odor	No COPR/GGM identified at this location.
EF-104	9/18/2012	1.0	611749.5	683193.9	-	-	Coal	No COPR/GGM identified at this location.
EF-105	9/18/2012	15.0	611799.2	683239.8	-	-	Coal, slag, slight sheen. Naphthalene odor at 6.5 - 8.1 ft bgs and 10 - 13.2 ft bgs	No COPR/GGM identified at this location.
EF-106	9/18/2012	20.0	611843.4	683284.0	-	-	Coal, ash, cinders, slight naphthalene odor	No COPR/GGM identified at this location.
EF-107	9/12/2012	4.5	611940.3	683346.2	-	-	Coal, cinders	No COPR/GGM identified at this location.
EF-108	9/10/2012	24.0	611962.5	683392.1	-	-	Coal	No COPR/GGM identified at this location.
EF-109	9/11/2012	25.0	611913.6	683437.3	-	-	Slight sheen	No COPR/GGM identified at this location.
EF-110	9/11/2012	0.7	611824.7	683534.8	-	-	Coal	No COPR/GGM identified at this location.
EF-110A	6/20/2015	40.0	611817.1	683551.8	-	-	Coal	No COPR/GGM identified at this location.
EF-111	9/11/2012	30.0	611796.0	683564.2	-	-	Slight hydrocarbon odor	No COPR/GGM identified at this location.
EF-111A	6/27/2015	40.0	611795.9	683573.2	-	-	-	No COPR/GGM identified at this location.
EF-112	9/12/2012	2.0	611805.4	683603.4	0.4 - 1.0 = 10% 1.0 - 1.5 = 90%	-	-	-
EF-112A	3/12/2014	40.0	611806.0	683604.0	2.0 - 2.3	-	-	Green stained water from 26.0 - 30 ft bgs.
EF-113	9/17/2012	30.0	611756.2	683651.2	-	-	Coal, slag	No COPR/GGM identified at this location.
EF-114	9/10/2012	1.5	611580.4	683722.0	-	-	-	No COPR/GGM identified at this location.
EF-115	9/5/2012	4.5	611124.8	683932.1	-	-	-	Green staining.
EF-117	9/5/2012	5.0	610722.1	683398.6	-	-	Coal, slight petroleum odor	No COPR/GGM identified at this location.
EF-118	8/31/2012	20.0	610635.8	683327.3	-	-	Coal	No COPR/GGM identified at this location.
EF-119	8/31/2012	7.4	610579.5	683351.6	-	-	Coal	No COPR/GGM identified at this location.
EF-120	8/31/2012	1.0	610624.8	683144.6	-	-	-	No COPR/GGM identified at this location.
EF-122	9/10/2012	5.0	611555.8	682869.9	-	-	Coal, ash, cinders, slag	No COPR/GGM identified at this location.
EF-123	9/7/2012	5.5	611614.7	682924.6	-	-	Coal	No COPR/GGM identified at this location.
EF-124	9/4/2012	2.0	611309.2	682391.5	-	-	Coal	No COPR/GGM identified at this location.
EF-125	8/30/2012	1.5	610572.6	682655.5	-	-	Coal	No COPR/GGM identified at this location.
EF-126	8/30/2012	1.5	610543.3	682591.8	-	-	Coal	No COPR/GGM identified at this location.
EF-127	8/30/2012	1.5	610429.1	682499.4	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
EF-128	12/13/2012	2.5	610636.0	682156.0	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
EF-129	12/13/2012	1.0	611482.0	682642.0	-	-	-	No COPR/GGM identified at this location.
EF-57A	3/10/2014	40.0	611828.1	683628.5	-	-	-	No COPR/GGM identified at this location.
EF-73A	6/2/2015	40.0	611768.0	683636.5	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.

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Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
EF-91	8/30/2012	4.5	610685.4	682188.8	-	-	Coal, MGP odor	No GGM/COPR identified. Strong solvent odor.
EF-93	9/4/2012	25.0	611170.9	682906.7	-	-	Coal, naphthalene odor	Green staining.
EF-99	9/4/2012	3.0	611413.1	682723.5	-	-	Cinders, coal, slag, ash	No COPR/GGM identified at this location.
FS1	4/1/2014	40.0	611754.9	683549.1	-	-	Cinders, coal	No COPR/GGM identified at this location.
FS10	3/4/2014	40.5	611839.5	683634.1	-	-	Ash	No COPR/GGM identified at this location.
FS11	2/12/2014	35.0	611900.6	683651.1	-	-	-	No COPR/GGM identified at this location.
FS12	2/12/2014	45.0	611900.3	683693.1	-	-	Sheen, petroleum-like odor, ash, cinders	No COPR/GGM identified at this location.
FS13	2/10/2014	40.0	611927.8	683677.4	-	-	-	No COPR/GGM identified at this location.
FS14	3/19/2014	49.0	611842.6	683739.8	-	-	Cinders, some coal, ash	No COPR/GGM identified at this location.
FS15	3/27/2014	40.0	611741.6	683564.4	-	-	Ash, trace cinders	No COPR/GGM identified at this location.
FS16	4/2/2014	40.0	611707.6	683608.3	-	-	Hydrocarbon staining and odor, MGP-like material	No COPR/GGM identified at this location.
FS16A	6/19/2015	46.0	611724.3	683591.0	-	-	Ash, cinders, tar-like odor, petroleum-like odor, sheen, naphthalene-like odor	No COPR/GGM identified at this location.
FS17	3/31/2014	40.0	611680.8	683634.5	0.5 - 1.0 = trace	-	MGP-like material, hydrocarbon odor and staining	-
FS18	3/17/2014	40.0	611684.6	683680.2	1.8 - 2.5	-	MGP-like material with tar-like odors	-
FS19	9/25/2013	15.0	611755.7	683693.2	0.0 - 2.0 = trace	-	Coal, cinders	Original boring log identified potential CCPW at this location from 0.0 - 2.0 ft bgs. A verification test pit (FSTP4) advanced in April 2014 determined COPR was not present at this location.
FS2	3/24/2014	40.0	611766.0	683580.4	-	-	-	No COPR/GGM identified at this location.
FS20	9/25/2013	15.0	611780.9	683719.9	-	-	Coal, cinders	No COPR/GGM identified at this location.
FS21	6/4/2015	40.0	611814.4	683665.4	-	-	Ash, cinders	No COPR/GGM identified at this location.
FS22	6/3/2015	40.0	611846.4	683703.2	-	-	Ash, cinders	No COPR/GGM identified at this location.
FS23	7/11/2015	40.0	611840.0	683526.3	-	-	Coal, cinders	No COPR/GGM identified at this location.
FS24	6/5/2015	5.0	611929.5	683681.7	-	-	Coal, ash, slag	No COPR/GGM identified at this location.
FS25	6/15/2015	35.0	611703.9	683733.7	3.0 - 3.5 = trace	-	Wood fragments, naphthalene like odor	-
FS3	3/20/2014	40.0	611787.1	683580.5	-	-	-	No COPR/GGM identified at this location.
FS4	3/21/2014	40.0	611782.3	683584.9	-	-	Coal	No COPR/GGM identified at this location.
FS5	3/28/2014	40.0	611728.2	683577.9	-	-	Ash	No COPR/GGM identified at this location.
FS6	2/25/2014	40.5	611797.3	683601.6	0.5 - 3.0 = 20% COPR	-	Ash, slag, cinders	-
FS7	2/24/2014	40.5	611806.8	683607.1	-	-	-	No COPR/GGM identified at this location.
FS8	2/28/2014	40.0	611854.4	683648.6	-	-	Ash	No COPR/GGM identified at this location.
FS9	3/5/2014	40.0	611856.1	683655.9	-	-	Tar-like material	No COPR/GGM identified at this location.

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FSI1	4/8/2014	1.5	611883.0	683645.9	-	-	-	No COPR/GGM identified at this location.
FSI10	6/5/2015	20.0	611918.0	683566.8	-	-	Ash, cinders	No COPR/GGM identified at this location.
FSI1A	4/9/2014	2.0	611878.2	683636.5	-	-	-	No COPR/GGM identified at this location.
FSI1B	4/9/2014	0.5	611868.0	683645.0	-	-	-	No COPR/GGM identified at this location.
FSI1C	4/9/2014	0.4	611877.0	683653.0	-	-	-	No COPR/GGM identified at this location.
FSI2	4/9/2014	1.0	611867.0	683626.0	-	-	-	No COPR/GGM identified at this location.
FSI3	4/12/2014	12.0	611840.6	683601.3	-	-	Cinders, coal	No COPR/GGM identified at this location.
FSI4	4/12/2014	5.5	611820.8	683565.6	-	-	-	5.0 ft of void space beneath concrete floor. Unable to continue drilling/sampling.
FSI4A	6/13/2015	12.0	611814.2	683567.4	-	-	Coal, ash	No COPR/GGM identified at this location.
FSI5	4/9/2014	1.5	611855.2	683547.7	-	-	-	No COPR/GGM identified at this location.
FSI5A	6/9/2015	13.0	611855.2	683547.7	-	-	-	No COPR/GGM identified at this location.
FSI6	4/10/2014	0.9	611872.7	683609.6	-	-	-	No COPR/GGM identified at this location.
FSI6A	6/10/2015	10.0	611872.7	683609.6	-	-	-	No COPR/GGM identified at this location.
FSI7	4/11/2014	12.0	611928.0	683608.0	-	-	-	No COPR/GGM identified at this location.
FSI8	4/11/2014	12.0	611933.1	683666.3	-	-	-	No COPR/GGM identified at this location.
FSI9	4/7/2014	20.0	611906.7	683546.9	-	-	-	No COPR/GGM identified at this location.
FSTP1	02/12/14	8.0	611843.0	683650.0	-	-	-	No CCPW observed. Two metal water lines exposed going across the alleyway. One 12.0-inch steel water line at 5.2 ft bgs and one 18.0-inch clay sewer line 7.1 ft bgs.
FSTP2-WaterLine1	3/5/2014	5.0	611780.9	683570.2	-	-	-	No CCPW observed. Water utility line encountered at 4.3 ft bgs
FSTP3	3/6/2014	8.0	611770.0	683584.0	-	-	-	No CCPW observed. Water utility line encountered at 4.6 ft bgs and the sewer utility line at 6.8 ft bgs
FSTP4	4/3/2014	2.0	611756.0	683693.0	-	-	-	This test pit was advanced to confirm the presence or absence of CCPW observed at location FS19. No CCPW was observed.
H0	2/19/2014	20.5	611597.3	683014.0	-	-	Ash	No COPR/GGM identified at this location.
H0A	2/18/2014	20.5	611614.1	682997.4	-	-	Ash	No COPR/GGM identified at this location.
H0B	2/19/2014	20.5	611632.3	682979.1	-	-	Ash	No COPR/GGM identified at this location.
H1	12/10/2011	20.0	611566.0	682990.4	-	-	Coal, ash, cinders, slag	No COPR/GGM identified at this location.
H1A	12/10/2011	20.0	611582.6	682968.1	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
H1A1	9/20/2012	0.9	611586.3	682971.5	-	-	Slag	Green staining identified in concrete.
H1A11	2/21/2014	4.0	611576.3	682952.5	-	-	Ash, cinders	Green staining on concrete. No COPR/GGM encountered at any interval in this boring.
H1A12	2/21/2014	4.0	611572.0	682978.7	-	-	Ash	No COPR/GGM identified at this location.
H1A2	9/20/2012	1.1	611586.1	682964.4	-	-	Coal, slag	Green staining identified from 0.0 - 1.1 ft bgs.
H1A3	9/20/2012	0.9	611578.9	682964.7	-	-	Coal, slag	Green staining identified in concrete.

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H1A3V	2/21/2014	20.2	611581.7	682962.0	-	-	Ash	Green staining on concrete. No COPR/GGM encountered at any interval in this boring.
H1A4	9/20/2012	0.9	611579.3	682971.8	-	-	Coal, slag	No COPR/GGM identified at this location.
H1A5	9/20/2012	1.1	611590.0	682974.9	-	-	Coal, slag	No COPR/GGM identified at this location.
H1A6	9/20/2012	0.8	611589.4	682960.8	-	-	Coal, slag	No COPR/GGM identified at this location.
H1A7	9/20/2012	0.9	611575.3	682961.4	-	-	Coal, slag	Green staining identified in concrete.
H1A8	9/20/2012	0.9	611575.9	682975.5	-	-	Coal, slag	No COPR/GGM identified at this location.
H1A9	2/21/2014	4.0	611593.4	682978.6	-	-	Ash	No COPR/GGM identified at this location.
H1B	12/10/2011	35.0	611610.0	682942.8	-	-	Ash, cinders, naphthalene odor	No COPR/GGM identified at this location.
H2	12/10/2011	20.0	611538.9	682970.2	-	-	Ash, cinders	No COPR/GGM identified at this location.
H2A	12/10/2011	20.0	611559.1	682946.9	-	-	Ash, cinders	No COPR/GGM identified at this location.
H2B	12/10/2011	35.0	611592.0	682925.8	-	-	Coal fragments, naphthalene odor	No COPR/GGM identified at this location.
H3	12/11/2011	20.0	611493.1	682918.0	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
H3A	12/11/2011	20.0	611506.0	682893.5	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
H3B	12/11/2011	35.0	611542.1	682883.0	-	-	Ash, cinders, naphthalene odor	No COPR/GGM identified at this location.
H4	12/11/2011	20.0	611388.5	682829.1	-	-	Ash, cinders	No COPR/GGM identified at this location.
H4A	12/11/2011	20.0	611410.2	682805.1	-	-	Ash, cinders	No COPR/GGM identified at this location.
H4A1	9/21/2012	1.0	611413.9	682808.5	-	-	Coal, slag	No COPR/GGM identified at this location.
H4A10	3/7/2014	5.0	611420.7	682794.3	-	-	Cinders, ash	No COPR/GGM identified at this location.
H4A11	3/7/2014	5.0	611398.3	682808.9	-	-	Cinders, ash	No COPR/GGM identified at this location.
H4A12	3/7/2014	5.0	611399.8	682815.9	-	-	Cinders, ash	No COPR/GGM identified at this location.
H4A2	9/21/2012	0.9	611413.6	682801.4	-	-	Coal, slag	No COPR/GGM identified at this location.
H4A3	9/21/2012	0.9	611406.5	682801.7	-	-	Coal, slag	No COPR/GGM identified at this location.
H4A4	9/21/2012	1.1	611406.8	682808.7	-	-	Coal, slag	No COPR/GGM identified at this location.
H4A4V	3/7/2014	20.0	611407.1	682813.6	-	-	Ash, coal slag, cinders	No COPR/GGM identified at this location.
H4A5	9/21/2012	1.1	611417.5	682811.8	-	-	Coal, slag	No COPR/GGM identified at this location.
H4A6	9/21/2012	0.9	611417.0	682797.7	-	-	Slag	No COPR/GGM identified at this location.
H4A7	9/21/2012	0.9	611402.9	682798.3	-	-	Slag	No COPR/GGM identified at this location.
H4A8	9/21/2012	0.9	611403.5	682812.4	-	-	-	No COPR/GGM identified at this location.
H4A9	3/7/2014	4.0	611420.8	682815.7	-	-	Cinders, ash	No COPR/GGM identified at this location.
H4B	12/11/2011	20.0	611428.1	682783.4	-	-	Coal, ash, cinders, naphthalene odor	No COPR/GGM identified at this location.
H5	2/26/2014	20.0	611431.5	682858.8	-	-	Ash, cinders	No COPR/GGM identified at this location.
H5A	2/26/2014	20.0	611448.7	682841.9	-	-	Ash, coal slag, cinders	No COPR/GGM identified at this location.

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H5B	2/26/2014	20.0	611468.0	682823.0	-	-	Ash, coal slag, cinders	No COPR/GGM identified at this location.
H6	3/1/2014	12.0	611378.9	682802.1	-	-	Cinders, ash	No COPR/GGM identified at this location.
H6A	3/1/2014	20.0	611394.0	682783.0	-	-	Cinders, ash	No COPR/GGM identified at this location.
H6B	3/1/2014	20.0	611415.0	682764.0	-	-	Ash, slag, cinders	No COPR/GGM identified at this location.
HAL-AOC3	No boring Log							
HL-TP	11/14/2017	2.0	611834.2	683313.8	-	-	-	This test pit was advanced to confirm the presence or absence of CCPW observed at location HL. No CCPW was observed.
HTP1	2/22/2014	2.0	611578.9	682964.7	-	-	Ash, slag, cinders	Green stained concrete. No COPR/GGM encountered.
HTP2	3/8/2014	2.0	611406.8	682808.7	-	-	Ash, slag, cinders	Green staining identified. No COPR/GGM encountered.
ICO-01	8/29/2012	13.0	610331.8	682514.3	-	-	Coal, slight petroleum odor	No COPR/GGM identified at this location.
ICO-02	8/29/2012	10.5	610294.2	682447.5	-	-	Coal	No COPR/GGM identified at this location.
ICO-03A	8/29/2012	12.0	610144.3	682387.9	-	-	Coal	No COPR/GGM identified at this location.
ICO-11	4/5/2012	20.0	610536.1	682780.7	-	-	Cinders, ash, coal	No COPR/GGM identified at this location.
ICO-18	4/5/2012	20.0	610609.8	682296.5	-	-	Cinders	No COPR/GGM identified at this location.
ICO-23	2/3/2012	14.0	611953.0	683600.0	-	-	-	No COPR/GGM identified at this location.
ICO-24	9/19/2012	20.0	611976.8	683511.8	-	-	Coal, slag	No COPR/GGM identified at this location.
ICO-26	9/19/2012	20.0	612082.6	683500.2	-	-	-	No COPR/GGM identified at this location.
ICO-27	9/14/2012	20.0	612046.8	683394.5	-	-	Coal	No COPR/GGM identified at this location.
ICO-28	9/13/2012	20.0	612173.1	683379.4	-	-	Slag	No COPR/GGM identified at this location.
ICO-29	9/13/2012	20.0	612184.6	683496.0	-	-	Coal, moderate solvent odor	No COPR/GGM identified at this location.
SCB-16	8/23/2012	20.0	610550.6	682239.7	-	-	Coal, ash, cinders, petroleum odor	No COPR/GGM identified at this location.
SCB-17	8/23/2012	20.0	610563.1	682227.9	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.
SCB-18	8/23/2012	20.0	610578.1	682214.8	-	-	Coal, ash	No COPR/GGM identified at this location.
TWA-1/ICO-12	4/5/2012	25.0	610735.5	682590.8	0.5 - 2.5 = 10% 2.5 - 6.0 = 100%	7.0 - 15.0	Coal	Sampled on 4/6/12.
TWA-10	4/4/2012	25.0	610525.1	682491.7	-	-	Cinders, ash, coal	No COPR/GGM identified at this location.
TWA-11/ICO-16	4/4/2012	25.0	610487.6	682414.3	-	-	Ash, cinders	No COPR/GGM identified at this location.
TWA-2	4/5/2012	25.0	610699.0	682516.0	0.5 - 2.5 = 75%	-	Cinders, ash, coal	Sampled on 4/6/12.
TWA-3/ICO-15	4/5/2012	25.0	610648.5	682428.1	-	-	Cinders, ash, coal	No COPR/GGM identified at this location.
TWA-4	4/5/2012	25.0	610671.9	682620.8	-	-	Cinders, ash	No COPR/GGM identified at this location.
TWA-5	4/5/2012	25.0	610631.7	682542.2	-	-	Ash, cinders, coal	No COPR/GGM identified at this location.
TWA-6	4/4/2012	25.0	610588.7	682453.4	-	-	Ash, cinders	No COPR/GGM identified at this location.
TWA-7	4/4/2012	25.0	610548.0	682332.6	-	-	Cinders	No COPR/GGM identified at this location.
TWA-8	4/5/2012	25.0	610611.1	682653.5	-	-	Ash, cinders, coal	No COPR/GGM identified at this location.

Table 4-1
 Sample Investigation Details
 Garfield Avenue Group
 PPG, Jersey City, New Jersey

Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
TWA-9/ICO-13	4/5/2012	25.0	610568.1	682573.1	-	-	Ash, cinders, coal	No COPR/GGM identified at this location.
Northern Canal Area Borings								
NTB-A1	9/29/2011	15.0	612187.18	685527.66	-	-	Ash, tar odor	No COPR/GGM identified at this location. No canal bottom encountered
NTB-A2	9/29/2011	20.0	612204.31	685512.72	-	-	Cinders	No COPR/GGM identified at this location. Canal bottom at 10.9 ft bgs.
NTB-A3	9/29/2011	20.0	612222.73	685496.65	-	-	Coal, cinders, ash, naphthalene odor with sheen	No COPR/GGM identified at this location. Canal bottom at 15 ft bgs.
NTB-A4	9/29/2011	15.0	612249.75	685473.08	-	-	-	No COPR/GGM identified at this location. No canal bottom encountered.
NTB-A5	9/27/2011	5.0	612268.50	685456.72	-	-	-	No COPR/GGM identified at this location.
NTB-B1	9/30/2011	15.0	612073.59	685345.73	-	-	Ash	No COPR/GGM identified at this location. No canal bottom encountered.
NTB-B2	9/28/2011	15.0	612111.56	685362.06	-	-	Cinders	No COPR/GGM identified at this location. Canal bottom at 10.9 ft bgs.
NTB-B3	9/28/2011	20.0	612130.31	685352.50	-	-	Cinders	No COPR/GGM identified at this location. Canal bottom at 17.5 ft bgs.
NTB-B4	9/28/2011	20.0	612149.43	685340.73	-	-	Black cinders	No COPR/GGM identified at this location. Canal bottom at 12 ft bgs.
NTB-B5	9/30/2011	15.0	612184.35	685345.14	-	-	Coal	No COPR/GGM identified at this location. No canal bottom encountered.
NTB-C1	9/28/2011	20.0	612022.95	685188.14	-	-	Naphthalene odor	No COPR/GGM identified at this location. Canal bottom at 17 ft bgs.
NTB-C2	9/28/2011	15.0	612040.59	685180.79	-	-	Cinders, ash	No COPR/GGM identified at this location. Canal bottom at 13.5 ft bgs.
NTB-C3	9/28/2011	20.0	612058.24	685172.33	-	-	Black cinders, ash	No COPR/GGM identified at this location. Canal bottom at 15.5 ft bgs.
NTB-C4	9/29/2011	15.0	612076.26	685162.77	-	-	Black cinders, ash and silt	No COPR/GGM identified at this location. No canal bottom encountered.
NTB-C5	9/30/2011	20.0	611992.50	685159.78	-	-	Ash	No COPR/GGM identified at this location. No canal bottom encountered.
NSB-D1	8/21/2012	25.0	611996.5	685165.4	-	-	Coal, ash, cinders	No COPR/GGM identified at this location. No canal bottom encountered.
NSB-D2	8/21/2012	25.0	612018.4	685155.0	-	-	Coal, slag, ash, cinders, strong petroleum odor	No COPR/GGM identified at this location. Canal bottom 15-16.9 ft bgs.
NSB-D3	8/22/2012	25.0	612029.3	685149.3	-	-	Coal, ash, cinders, slag, moderate petroleum odor, slight sheen	No COPR/GGM identified at this location. Canal bottom 15-15.7 ft bgs.
NSB-D4	8/22/2012	25.0	612040.1	685143.2	-	-	Slight petroleum odor	No COPR/GGM identified at this location. Canal bottom 11.8-11.9 ft bgs.
NSB-D5	8/20/2012	25.0	612052.4	685116.8	-	-	Ash, cinders, slag, slight naphthalene odor	No COPR/GGM identified at this location.
NSB-E1	8/24/2012	25.0	611954.3	685096.4	-	-	Coal, slight petroleum odor	No COPR/GGM identified at this location.
NSB-E2	8/24/2012	25.0	611971.5	685090.6	-	-	Coal, ash	No COPR/GGM identified at this location. Canal bottom 12.1-13 ft bgs.
NSB-E3	8/24/2012	25.0	611986.8	685083.2	-	-	Coal, slight petroleum odor, tar paper	No COPR/GGM identified at this location. Canal bottom 15-16 ft bgs.
NSB-E4	8/27/2012	25.0	612008.3	685075.4	-	-	Coal	No COPR/GGM identified at this location.
NSB-E5	8/21/2012	5.5	612028.6	685074.7	-	-	Coal, slag, ash, cinders	No COPR/GGM identified at this location. Refusal at 6.0 ft bgs.
NSB-F1	8/27/2012	25.0	611923.2	685042.8	-	-	-	No COPR/GGM identified at this location.
NSB-F2	8/28/2012	25.0	611942.4	685041.3	-	-	Coal	No COPR/GGM identified at this location.
NSB-F3	8/28/2012	25.0	611950.1	685027.7	-	-	Coal, ash, cinders	No COPR/GGM identified at this location.

Table 4-1
Sample Investigation Details
Garfield Avenue Group
PPG, Jersey City, New Jersey

Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
NSB-F4	8/28/2012	25.0	611972.7	685024.9	-	-	Coal, slight petroleum odor, slight sheen.	No COPR/GGM identified at this location.
NSB-F5	8/21/2012	25.0	611994.3	685001.6	-	-	-	No COPR/GGM identified at this location.
Additional Non-RI Borings								
10W-J33A	5/22/2014	20.0	610695.5	682636.7	-	-	Cinders, ash	No COPR/GGM identified at this location.
10W-J35A	5/22/2014	20.0	610667.4	682582.6	-	-	Cinders, ash	No COPR/GGM identified at this location.
10W-J38A	5/16/2014	20.0	610635.6	682522.1	-	-	Cinders, ash	No COPR/GGM identified at this location.
10W-L35A	5/20/2014	15.0	610721.9	682556.4	1.0 - 1.5 4.0 - 6.0	7.5 - 15	Cinders, ash	-
10W-L37A	5/21/2014	25.0	610697.2	682503.2	-	-	Cinders, ash	No COPR/GGM identified at this location.
10W-L39A	5/19/2014	25.0	610668.6	682450.1	-	-	Cinders, ash, hydrocarbon odor and staining	No COPR/GGM identified at this location.
10W-L41A	5/20/2014	25.0	610640.6	682396.8	-	-	Cinders, ash	No COPR/GGM identified at this location.
135-P3C-V42A	4/15/2014	20.0	610906.5	682239.0	-	-	Cinders, ash, hydrocarbon odor and staining	No COPR/GGM identified at this location.
135-P3C-W45A	3/19/2014	20.0	610893.7	682145.7	-	-	Ash	No COPR/GGM identified at this location.
ASM-W46A	8/15/2016	20.0	610875.6	682126.1	-	-	Ash, cinders	No COPR/GGM identified at this location.
ASM-X44A	8/17/2016	20.0	610933.1	682158.4	-	-	Ash, fuel oil-like odor, light sheen	No COPR/GGM identified at this location.
ASM-Y44A	8/16/2016	20.0	610956.5	682145.2	-	-	-	No COPR/GGM identified at this location.
CAR-PDI-AA19A	6/13/2016	20.0	611350.9	682789.2	-	-	Trace ash	No COPR/GGM identified at this location.
CAR-PDI-AA20A	6/9/2016	20.0	611330.2	682753.4	-	-	Slight petroleum odor.	No COPR/GGM identified at this location.
CAR-PDI-BB20A	6/10/2016	15.0	611363.1	682749.5	-	-	Trace coal, ash, petroleum odor and staining	No COPR/GGM identified at this location.
CAR-PDI-CC21A	6/9/2016	15.0	611377.5	682702.8	-	-	-	No COPR/GGM identified at this location.
CAR-PDI-EE20A	6/14/2016	20.0	611431.9	682699.4	-	-	Slight gasoline-like odor	No COPR/GGM identified at this location.
CAR-PDI-EE21A	6/7/2016	15.0	611430.4	682677.6	-	-	Petroleum odor and staining	No COPR/GGM identified at this location.
CAR-PDI-FF21A	6/7/2016	20.0	611459.7	682658.8	-	-	Slight petroleum odor and staining	No COPR/GGM identified at this location.
EF-05A	9/7/2016	25.0	611661.6	683648.3	-	-	Cinders, ash, coal tar, MGP-like odor, tar staining	No COPR/GGM identified at this location.
FBP-I31A	5/5/2014	20.0	610705.6	682708.4	-	-	Cinders, ash	No COPR/GGM identified at this location.
FBP-J31A	5/5/2014	20.0	610731.6	682694.3	1.5 - 2.0	-	Cinders, ash	-
FSP-T14B-SW-N	5/19/2017	0.5	611620.7	683793.2	Post-excavation grab sample. No boring log generated.			
FSP-U14B-SW-N4	5/19/2017	0.5	611646.5	683774.2	Post-excavation grab sample. No boring log generated.			
GAR-PDI-A'3B	11/22/2016	20.0	610925.6	683740.3	-	-	Cinders, ash	No COPR/GGM identified at this location.
GAR-PDI-A'4B	10/23/2016	20.0	610941.1	683767.3	-	-	-	No COPR/GGM identified at this location.

Table 4-1
 Sample Investigation Details
 Garfield Avenue Group
 PPG, Jersey City, New Jersey

Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
GAR-PDI-B'12A	11/13/2016	20.0	610692.1	683357.1	-	-	Trace coal and ash	No COPR/GGM identified at this location.
GAR-PDI-B'8A	11/6/2016	20.0	610751.9	683457.0	-	-	-	No COPR/GGM identified at this location.
HSD-PDI-CC14A	5/26/2016	20.0	611478.0	682900.6	-	-	Cinders, ash, slight petroleum odor and black staining	No COPR/GGM identified at this location.
HSD-PDI-DD15A	5/26/2016	20.0	611483.4	682851.7	-	-	Cinders, coal, slight petroleum odor	No COPR/GGM identified at this location.
HSD-PDI-EE17A	6/2/2016	15.0	611478.8	682794.5	-	-	Ash, coal cinders	No COPR/GGM identified at this location.
HSD-PDI-GG5A	5/18/2016	20.0	611698.4	683079.0	-	-	Ash, coal	No COPR/GGM identified at this location.
NFS-PDI-U14B	8/31/2016	21.0	611634.4	683752.9	-	-	-	No COPR/GGM identified at this location.
NFS-PDI-CC12B	9/9/2016	21.0	611819.3	611819.3	-	-	Cinders	No COPR/GGM identified at this location.
NFS-PDI-CC12BR	11/14/2016	21.0	611828.8	683594.5	-	-	Ash	No COPR/GGM identified at this location.
NFS-PDI-CC14B	9/16/2016	20.0	611849.4	683648.2	-	-	-	No COPR/GGM identified at this location.
NFS-PDI-EE15B	9/13/2016	21.0	611906.4	683651.4	-	-	Trace ash	No COPR/GGM identified at this location.
P4-FOR-CC10B	6/23/2016	15.0	611793.1	683535.0	-	-	Trace ash, fuel oil-like odor, sheen	No COPR/GGM identified at this location.
P4-FOR-FF9B	6/23/2016	15.0	611859.1	683467.1	-	-	Trace ash, coal, gasoline-like odor, black staining, sheen	No COPR/GGM identified at this location.
P4-FOR-GG8B	6/24/2016	10.0	611875.4	683430.9	-	-	Trace ash	No COPR/GGM identified at this location.
P4-FOR-GG9B	6/24/2016	10.0	611886.8	683452.0	-	-	Solvent-like odor	No COPR/GGM identified at this location.
P4-FOR-HH8B	6/27/2016	15.0	611901.6	683414.1	-	-	-	No COPR/GGM identified at this location.
P4-FOR-HH9B	6/28/2016	15.0	611916.6	683443.9	-	-	-	No COPR/GGM identified at this location.
P4-FOR-II9B	6/27/2016	15.0	611941.6	683427.6	-	-	-	No COPR/GGM identified at this location.
P4-FOR-Y12B	6/23/2016	15.0	611711.7	683638.1	-	-	Ash, coal	No COPR/GGM identified at this location.
P4-FOR-Y12BR	10/20/2016	21.0	611711.7	683638.0	-	-	Cinders, ash, coal, slight fuel oil-like odor	No COPR/GGM identified at this location.
P4-FOR-Z11B	6/17/2016	10.0	611725.1	683603.9	-	-	Ash	No COPR/GGM identified at this location.
P4-HAL-O47A	9/12/2014	15.0	610665.4	682204.0	-	-	Ash	No COPR/GGM identified at this location.
P4-HSN-AA16A	5/4/2016	20.0	611391.8	682868.4	-	-	Trace ash, sheen, slight petroleum odor	No COPR/GGM identified at this location.
P4-HSN-CC12A	5/9/2016	20.0	611495.7	682949.4	-	-	Ash	No COPR/GGM identified at this location.
P4-HSN-DD8A	5/3/2016	20.0	611578.9	683041.1	-	-	Cinders, coal, slight petroleum odor	No COPR/GGM identified at this location.
P4-HSN-EE6A	5/2/2016	15.0	611633.2	683081.9	-	-	Petroleum odor and staining, some cinders	No COPR/GGM identified at this location.
P4-HSN-EE7A	5/10/2016	20.0	611620.5	683055.8	-	-	-	No COPR/GGM identified at this location.
P4-HSN-GG3B	4/28/2016	20.0	611808.3	683296.3	-	-	Petroleum odor, sheen, ash	No COPR/GGM identified at this location.
P4-HSN-HH5B	4/27/2016	21.0	611860.7	683336.0	-	-	Slight petroleum odor, sheen, staining	No COPR/GGM identified at this location.
PSEG-SB37B	9/20/2016	10.0	611605.6	683804.9	-	-	Trace coal	No COPR/GGM identified at this location.

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 Sample Investigation Details
 Garfield Avenue Group
 PPG, Jersey City, New Jersey

Boring/Test Pit ID	Date Installed	Total Boring/Excavation Depth (ft bgs)	Easting Coordinates (ft NAD83)	Northing Coordinates (ft NAD83)	COPR Depth if encountered (ft bgs)	Green-Gray Mud Depth (ft bgs)	Coal Tar, Ash, Oil or other Petroleum encountered	Comments
Additional Monitoring Well Locations								
114-MW14B	1/29/2007	35.0	611250.0	684019.7	0.5 - 1.5 = 5% COPR	-	Ash, slag, coal	-
114-MW16A	1/5/2007	19.0	610609.6	683362.9	-	-	-	Original boring log identified potential COPR from 4 - 4.5 ft bgs. Verification borings (included in Appendix J) advanced in January 2017 determined COPR was not present at this location.
114-MW20C	12/27/2013	84.0	611555.6	683020.2	-	-	-	No COPR/GGM identified at this location.
114-MW25B	1/24/2014	35.0	611795.8	683596.0	0 - 3 = some COPR	-	-	-
114-MW37A	7/22/2015	15.0	611912.7	683693.1	-	-	Ash, cinders, slag, tar-like odor	No COPR/GGM identified at this location.
114-MW37B	6/23/2015	35.0	611917.3	683689.1	-	-	Ash, cinders, slag, tar-like odor	No COPR/GGM identified at this location.
133-MW6A	11/21/2013	15.0	610556.4	682210.1	-	-	Ash, cinders, slag	No COPR/GGM identified at this location.
135-MW3A	11/26/2013	15.0	611125.5	682308.2	-	-	Ash, slag	No COPR/GGM identified at this location.
135-MW3B	12/5/2013	33.0	611114.8	682301.5	-	-	Ash, cinders, slag	No COPR/GGM identified at this location.
MW7D	7/14/2005	48.0	611819.5	682963.4	-	-	Heavy oil odors and staining	Original boring log identified suspected COPR from 6.2 - 6.4 ft bgs. Verification borings (included in Appendix J) advanced in January 2017 determined COPR was not present at this location.
MW8S	11/26/2013	15.0	611487.5	682643.0	-	-	-	-
MW8D	7/15/2005	49.0	611495.2	682650.1	-	-	-	Original boring log identified suspected COPR from 5.1 - 9.5 ft bgs. Verification borings (included in Appendix J) advanced in January 2017 determined COPR was not present at this location.
MW8F	12/19/2013	84.0	611479.9	682647.6	-	-	-	-

NOTES:
 - = not encountered
 CCPW = Chromate Chemical Production Waste
 COPR = Chromite Ore Processing Residue
 ft bgs = feet below ground surface
 ft NAD83 = feet in the New Jersey State Plane North American Datum of 1983
 GGM = green-gray mud
 MGP = manufactured gas plant
 RI = Remedial Investigation