

**Table 3-1  
Top of Bedrock Elevation  
Groundwater Remedial Investigation Report  
Garfield Avenue Group of Sites  
PPG, Jersey City, New Jersey**

Location	Easting (ft NAD83)	Northing (ft NAD83)	Ground Surface Elevation (ft NAVD88)	Depth to Bedrock (ft bgs)	Bedrock Elevation <sup>2</sup> (ft NAVD88)	Notes	Rock Type
114-BSB-01	611145.10	683901.80	14.7	63	-48.3	Sonic, drilled 5 ft into bedrock	Igneous - Diabase
114-BSB-02	611029.00	683757.30	13.5	61.5	-48.0	Sonic, drilled 11.5 ft into bedrock	Igneous - Diabase
114-BSB-03	611026.80	683530.40	13.9	76	-62.1	Sonic, drilled 5 ft into bedrock	Sedimentary
114-MW15A	610888.50	683851.50	13.44	6	7.4	HSA/Mud rotary, refusal	Indeterminate
114-MW16B	610610.20	683366.40	16.1	19	-2.9	HSA/Air rotary, drilled 16.5 ft into bedrock	Igneous - Diabase
114-MW19C	611263.30	682737.30	10.94	101	-90.1	HSA/Mud rotary, refusal with observed weathered bedrock	Indeterminate
114-MW20C	611555.60	683020.20	12.4	84	-71.6	Mud rotary, refusal	Indeterminate
114-MW22B	610693.50	683254.90	12.6	35.5	-22.9	HSA/Mud rotary, refusal	Sedimentary
114-MW25C	611795.80	683600.40	10.4	55	-44.6	Sonic, drilled 3 ft into bedrock	Indeterminate
114-MW4D	610821.80	683258.90	12.91	87	-74.1	Mud and air rotary, drilled 20 ft into bedrock	Igneous - Diabase
114-MW6D	611298.40	683683.30	12.66	77	-64.3	Mud and air rotary, drilled 34 ft into bedrock	Sedimentary - Lockatong
114-MW7D	611189.20	683329.10	12.44	76.5	-64.1	Air rotary, drilled 13.5 ft into bedrock	Indeterminate
114-MW45C	611411.80	683675.00	11.5	71	-59.5	Sonic, drilled 5 ft into bedrock	Sedimentary - Lockatong
114-MW48C	611163.80	683919.40	15	58	-43.0	Sonic, drilled 6 ft into bedrock	Igneous - Diabase
114-MW49C	611378.10	683872.00	14.6	70	-55.4	Sonic, drilled 5 ft into bedrock	Sedimentary - Lockatong
114-MW50C	611043.10	683769.80	13.4	62	-48.6	Sonic, drilled 5 ft into bedrock	Igneous - Diabase
114-MW51C	611633.30	683637.40	12.2	77	-64.8	Sonic, drilled 5 ft into bedrock	Sedimentary - Stockton
114-MW52C	611034.70	683527.70	14	73	-59.0	Sonic, drilled 5 ft into bedrock	Sedimentary - Lockatong
114-MW52D	611077.50	683544.40	13.9	68	-54.1	Sonic & rock core, drilled 37 ft into bedrock	Sedimentary - Lockatong
114-MW53C	611157.60	683435.60	13.9	45.5	-31.6	Sonic, drilled 9.5 ft into bedrock	Sedimentary - Lockatong
114-MW54C	611214.90	683276.50	10.8	77	-66.2	Sonic, drilled 7 ft into bedrock	Sedimentary - Stockton
114-MW55C	611439.10	683519.80	11.1	68	-56.9	Sonic, drilled 7 ft into bedrock	Sedimentary - Stockton
114-MW56C	610934.80	683324.40	14	72	-58.0	Sonic, drilled 8 ft into bedrock	Sedimentary - Lockatong
114-MW57C	610949.90	683210.40	12.9	68	-55.1	Sonic, drilled 7 ft into bedrock	Sedimentary - Lockatong
114-MW57D	610903.90	683215.50	12.7	67	-54.3	Sonic & rock core, drilled 45.5 ft into bedrock	Sedimentary - Lockatong
114-MW58C	611371.20	683296.60	11.2	74	-62.8	Sonic, drilled 6 ft into bedrock	Sedimentary - Stockton
114-MW59C	611255.20	683079.60	12.1	92.5	-80.4	Sonic, drilled 7.5 ft into bedrock	Sedimentary - Stockton
114-MW60C	611340.10	682895.50	11	119.5	-108.5	Sonic, drilled 5.5 ft into bedrock	Sedimentary - Stockton
114-MW61C	610879.40	683478.60	14	63	-49.0	Sonic, drilled 12 ft into bedrock	Igneous - Diabase
114-MW61D	610873.20	683469.80	14.4	63	-48.6	Sonic & rock core, drilled 46 ft into bedrock	Igneous - Diabase
114-MW62C	611139.00	683749.80	13	71	-58.0	Sonic, drilled 9 ft into bedrock	Sedimentary - Lockatong
114-MW63C	611437.00	683762.10	15.5	66	-50.5	Sonic, drilled 6 ft into bedrock	Sedimentary - Lockatong
114-MW64C	611381.90	683046.00	10.8	93	-82.2	Sonic, drilled 7 ft into bedrock	Sedimentary - Stockton
114-MW65C	611291.70	683583.00	12.4	66	-53.6	Sonic, drilled 5 ft into bedrock	Sedimentary - Lockatong
114-MW66D	610941.40	683423.40	14.1	77	-62.9	Sonic & rock core, drilled 38 ft into bedrock	Sedimentary - Lockatong
114-MW67C	611022.24	683616.07	13.2	83	-69.8	Sonic, drilled 2 ft into bedrock	Sedimentary - Lockatong
114-MW68C	610851.13	683321.17	14.1	73	-58.9	Sonic, drilled 7 ft into bedrock	Igneous - Diabase
114-MW69C	611145.23	683213.16	10.8	68	-57.2	Sonic, drilled 7 ft into bedrock	Sedimentary - Stockton
132-MW2B	610555.00	682811.80	14.6	31	-16.4	HSA/Mud rotary, refusal	Indeterminate
133-MW1C	610670.80	682283.10	11.86	77	-65.1	HSA/Mud rotary, refusal	Indeterminate
133-MW2C	610792.70	682151.10	10.31	99	-88.7	HSA/Mud rotary, refusal	Indeterminate
135-MW1C	610951.30	682131.10	9.90	103	-93.1	HSA/Mud rotary, refusal	Indeterminate
137-MW1C	611036.70	683020.30	13.47	73	-59.5	HSA/Mud rotary, refusal	Indeterminate
137-MW2C	610918.50	682801.10	14.38	85	-70.6	HSA, refusal	Indeterminate
AE-2	611239.05	683932.09	15.063	63.3	-48.2	HSA, cored approximately 9 ft into bedrock	Igneous - Diabase
EF-37	610679.53	683445.78	12.93	16.5	-3.6	Geoprobe, refusal on observed weathered bedrock	Igneous - Diabase

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GT-10A	611023.04	683257.89	13.606	68	-54.4	HSA, refusal	Indeterminate
GT-14	610731.51	683345.66	11.327	34	-22.7	HSA/Mud rotary, drilled 11 ft into bedrock	Indeterminate
GT-15	610798.01	683454.83	11.156	50	-38.8	HSA, refusal with observed weathered bedrock	Indeterminate
GT-9C	611129.51	683317.36	13.476	67	-53.5	HSA, refusal on weathered bedrock	Indeterminate
ICO-05	610279.35	682297.33	24.51	8.5	16.0	Geoprobe, refusal	Igneous - Diabase
MW-4F	611637.00	683326.50	12.88	77	-64.1	HSA/Mud rotary, refusal on bedrock	Indeterminate
MW-7F	611837.52	682964.08	11.05	49	-38.0	HSA/Mud rotary, drilled 7 ft into bedrock then cored 5 ft into bedrock	Sedimentary
SB-23	611381.08	683099.76	15.05	88	-73.0	HSA/roller bit, drilled 3 ft into bedrock	Sedimentary
SB-24A	611600.92	683591.80	12.75	80	-67.3	No boring log available. Data taken from Table 5-3 of PSEG 2007 RIR <sup>1</sup>	Indeterminate
SB-25	611476.89	682936.23	11.67	92.5	-80.8	HSA/roller bit, drilled 2.5 ft into bedrock	Sedimentary
SB-26	611718.13	683020.72	14.83	72	-57.2	HSA/roller bit, drilled 6 ft into bedrock	Sedimentary
SB-30	611570.48	682885.34	11.31	77	-65.7	HSA/mud rotary/roller bit, drilled 1 ft into bedrock	Sedimentary
SB-33	612010.49	683282.29	14.92	56.5	-41.6	HSA/mud rotary/roller bit, drilled 3 ft into bedrock	Sedimentary
SB-34	611847.36	683458.68	12.05	55	-43.0	HSA, refusal	Indeterminate
SB-57	611376.60	683257.40	12.18	73.5	-61.3	No boring log available. Data taken from Table 5-3 of PSEG 2007 RIR <sup>1</sup>	Indeterminate
SB-58	611677.40	683213.90	14.15	70	-55.9	No boring log available. Data taken from Table 5-3 of PSEG 2007 RIR <sup>1</sup>	Indeterminate

**Notes:**

<sup>1</sup>PSEG, 2007. *Remedial Investigation Report - Former Halladay Street Gas Works*, Jersey City, New Jersey, December 2007.

<sup>2</sup>Blue shading denotes locations at which bedrock elevation is inferred based on refusal encountered during drilling.

bgs - below ground surface

ft - feet

HSA - Hollow stem auger

NAD83 - North American Datum of 1983

NAVD88 - North American Vertical Datum of 1988

PSEG - Public Service Electric and Gas Company

RIR - Remedial investigation report