

**Table 5-1**  
**Summary of Remedial Investigation Visible and Olfactory Impacts**  
**Metropolitan Former MGP Site, Brooklyn, New York**

Boring ID	Ground Surface Elevation NAVD88	Top of Impact (ft bgs)	Bottom of Impact (ft bgs)	Top Elevation NAVD88	Bottom Elevation NAVD88	Impacts
SB-1 / MW -1	12.09	0	0.75	12.09	11.34	None
SB-1 / MW -1	12.09	0.75	7	11.34	5.09	strong gasoline-like odor
SB-1 / MW -1	12.09	7	10	5.09	2.09	moderate gasoline-like odor
SB-1 / MW -1	12.09	10	72	2.09	-59.91	None
SB-2 / MW-2	10.26	0	4	10.26	6.26	None
SB-2 / MW-2	10.26	4	5	6.26	5.26	strong gasoline-like odor
SB-2 / MW-2	10.26	5	72	5.26	-61.74	None
SB-3 / MW-3	8.61	0	1	8.61	7.61	None
SB-3 / MW-3	8.61	1	2	7.61	6.61	trace naphthalene-like odor
SB-3 / MW-3	8.61	2	2.5	6.61	6.11	None
SB-3 / MW-3	8.61	2.5	5	6.11	3.61	strong naphthalene-like odor
SB-3 / MW-3	8.61	5	8	3.61	0.61	strong naphthalene-like odor and sheen, slight tar coating
SB-3 / MW-3	8.61	10	12	-1.39	-3.39	strong naphthalene-like odor
SB-3 / MW-3	8.61	12	18	-3.39	-9.39	slight naphthalene-like odor
SB-3 / MW-3	8.61	18	20	-9.39	-11.39	None
SB-3 / MW-3	8.61	20	30	-11.39	-21.39	strong naphthalene-like odor and sheen, pockets of tar saturated
SB-3 / MW-3	8.61	30	35	-21.39	-26.39	strong naphthalene-like odor and sheen, tar saturated in sand
SB-3 / MW-3	8.61	35	40	-26.39	-31.39	None
SB-3 / MW-3	8.61	40	45	-31.39	-36.39	strong naphthalene-like odor, tar saturated in sand lenses
SB-3 / MW-3	8.61	45	60	-36.39	-51.39	None
SB-4 / MW-4	6.86	0	21	6.86	-14.14	None
SB-4 / MW-4	6.86	21	25	-14.14	-18.14	moderate naphthalene-like odor and sheen, tar blebs
SB-4 / MW-4	6.86	25	26	-18.14	-19.14	moderate naphthalene-like odor
SB-4 / MW-4	6.86	26	29.5	-19.14	-22.64	slight naphthalene-like odor, tar coating, trace tar stingers
SB-4 / MW-4	6.86	29.5	30	-22.64	-23.14	slight naphthalene-like odor
SB-4 / MW-4	6.86	30	31.5	-23.14	-24.64	strong naphthalene-like odor
SB-4 / MW-4	6.86	31.5	34	-24.64	-27.14	tar saturated
SB-4 / MW-4	6.86	34	40	-27.14	-33.14	slight naphthalene-like odor
SB-4 / MW-4	6.86	40	43	-33.14	-36.14	faint naphthalene-like odor, slight tar-like staining
SB-4 / MW-4	6.86	43	60	-36.14	-53.14	None
MW-4D1	6.85	0	1	6.85	5.85	None
MW-4D1	6.85	1	2	5.85	4.85	slight naphthalene-like odor
MW-4D1	6.85	2	2.5	4.85	4.35	None
MW-4D1	6.85	2.5	5	4.35	1.85	slight naphthalene-like odor
MW-4D1	6.85	5	21	1.85	-14.15	None
MW-4D1	6.85	21	25	-14.15	-18.15	moderate naphthalene-like odor and sheen, tar blebs
MW-4D1	6.85	25	26	-18.15	-19.15	moderate naphthalene-like odor
MW-4D1	6.85	26	29.5	-19.15	-22.65	slight naphthalene-like odor, tar coating, trace tar stingers
MW-4D1	6.85	29.5	30	-22.65	-23.15	slight naphthalene-like odor
MW-4D1	6.85	30	31.5	-23.15	-24.65	strong naphthalene-like odor
MW-4D1	6.85	31.5	34	-24.65	-27.15	tar saturated
MW-4D1	6.85	34	40	-27.15	-33.15	slight naphthalene-like odor
MW-4D1	6.85	40	43	-33.15	-36.15	faint naphthalene-like odor, slight tar-like staining
MW-4D1	6.85	43	60	-36.15	-53.15	None
MW-4D1	6.85	60	120	-53.15	-113.15	None
MW-4D2	6.8	0	1	6.8	5.8	none
MW-4D2	6.8	1	3	5.8	3.8	slight naphthalene-like odor
MW-4D2	6.8	3	21	3.8	-14.2	None
MW-4D2	6.8	21	25	-14.2	-18.2	moderate naphthalene-like odor and sheen, tar blebs
MW-4D2	6.8	25	26	-18.2	-19.2	moderate naphthalene-like odor
MW-4D2	6.8	26	29.5	-19.2	-22.7	slight naphthalene-like odor, tar coating, trace tar stingers
MW-4D2	6.8	29.5	30	-22.7	-23.2	slight naphthalene-like odor
MW-4D2	6.8	30	31.5	-23.2	-24.7	strong naphthalene-like odor
MW-4D2	6.8	31.5	34	-24.7	-27.2	tar saturated
MW-4D2	6.8	34	40	-27.2	-33.2	slight naphthalene-like odor
MW-4D2	6.8	40	43	-33.2	-36.2	faint naphthalene-like odor, slight tar-like staining
MW-4D2	6.8	43	150	-36.2	-143.2	None
SB-5 / MW-5	9.79	0	39	9.79	-29.21	None
SB-5 / MW-5	9.79	39	41	-29.21	-31.21	faint naphthalene-like odor

**Table 5-1 (continued)**  
**Summary of Remedial Investigation Visible and Olfactory Impacts**  
**Metropolitan Former MGP Site, Brooklyn, New York**

Boring ID	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Top Elevation NAVD88	Bottom Elevation NAVD88	Impacts
SB-5 / MW-5	9.79	41	72	-31.21	-62.21	None
SB-6 / MW-6	9.81	0	0.25	9.81	9.56	None
SB-6 / MW-6	9.81	0.25	2	9.56	7.81	slight petroleum-like odor
SB-6 / MW-6	9.81	2	3	7.81	6.81	moderate petroleum-like odor
SB-6 / MW-6	9.81	3	5	6.81	4.81	None
SB-6 / MW-6	9.81	5	16	4.81	-6.19	slight petroleum-like odor
SB-6 / MW-6	9.81	16	26.5	-6.19	-16.69	None
SB-6 / MW-6	9.81	26.5	28	-16.69	-18.19	slight naphthalene-like odor
SB-6 / MW-6	9.81	28	30.5	-18.19	-20.69	None
SB-6 / MW-6	9.81	30.5	37	-20.69	-27.19	slight naphthalene-like odor
SB-6 / MW-6	9.81	37	50	-27.19	-40.19	None
SB-7 / MW-7	10.36	0	4	10.36	6.36	None
SB-7 / MW-7	10.36	4	5	6.36	5.36	petroleum-like odor
SB-7 / MW-7	10.36	5	10	5.36	0.36	heavy petroleum-like odor
SB-7 / MW-7	10.36	10	12	0.36	-1.64	heavy petroleum-like odor and sheen
SB-7 / MW-7	10.36	12	50	-1.64	-39.64	None
SB-8 / MW-8	7.46	0	2.5	7.46	4.96	None
SB-8 / MW-8	7.46	2.5	5	4.96	2.46	strong hydrocarbon/NAPL-like odor
SB-8 / MW-8	7.46	5	10	2.46	-2.54	None
SB-8 / MW-8	7.46	10	15	-2.54	-7.54	strong tar-like odor
SB-8 / MW-8	7.46	15	27	-7.54	-19.54	None
SB-8 / MW-8	7.46	27	31	-19.54	-23.54	moderate naphthalene-like odor
SB-8 / MW-8	7.46	31	34	-23.54	-26.54	None
SB-8 / MW-8	7.46	34	35	-26.54	-27.54	strong tar-like odor
SB-8 / MW-8	7.46	35	40	-27.54	-32.54	moderate tar-like odor
SB-8 / MW-8	7.46	40	50	-32.54	-42.54	None
SB-9 / MW-9	9.29	0	2	9.29	7.29	None
SB-9 / MW-9	9.29	2	3	7.29	6.29	faint hydrocarbon/petroleum-like odor
SB-9 / MW-9	9.29	3	4.5	6.29	4.79	None
SB-9 / MW-9	9.29	4.5	5	4.79	4.29	slight hydrocarbon/petroleum-like odor
SB-9 / MW-9	9.29	5	7.5	4.29	1.79	None
SB-9 / MW-9	9.29	7.5	10	1.79	-0.71	faint hydrocarbon/petroleum-like odor
SB-9 / MW-9	9.29	10	15	-0.71	-5.71	slight hydrocarbon/petroleum-like odor detected and sewer-like odor, slight sheen
SB-9 / MW-9	9.29	15	20	-5.71	-10.71	strong hydrocarbon/petroleum-like odors, small tar blebs
SB-9 / MW-9	9.29	20	25	-10.71	-15.71	strong tar-like odor, water has NAPL tar blebs
SB-9 / MW-9	9.29	25	30	-15.71	-20.71	None
SB-9 / MW-9	9.29	30	40	-20.71	-30.71	NAPL coating, strong tar-like odor
SB-9 / MW-9	9.29	40	45	-30.71	-35.71	NAPL coating
SB-9 / MW-9	9.29	45	50	-35.71	-40.71	None
SB-9 / MW-9	9.29	50	55	-40.71	-45.71	moderate NAPL-like odor, sheen
SB-9 / MW-9	9.29	55	55	-45.71	-45.71	coated NAPL globual 2-inch by 2-inch
SB-9 / MW-9	9.29	55	60	-45.71	-50.71	None
SB-9 / MW-9	9.29	60	60	-50.71	-50.71	faint tar-like odor
SB-9 / MW-9	9.29	60	80	-50.71	-70.71	None
SB-10	9.27	0	50	9.27	-40.73	None
SB-11	9.44	0	0.25	9.44	9.19	None
SB-11	9.44	0.25	1	9.19	8.44	moderate naphthalene-like odor
SB-11	9.44	1	8	8.44	1.44	strong naphthalene-like odor
SB-11	9.44	8	29	1.44	-19.56	None
SB-11	9.44	29	40	-19.56	-30.56	strong naphthalene-like odor
SB-11	9.44	40	42	-30.56	-32.56	slight naphthalene-like odor
SB-11	9.44	42	47	-32.56	-37.56	strong naphthalene-like odor
SB-11	9.44	47	48	-37.56	-38.56	slight naphthalene-like odor
SB-11	9.44	48	50	-38.56	-40.56	strong naphthalene-like odor
SB-11	9.44	50	60	-40.56	-50.56	None
SB-12	9.56	0	4	9.56	5.56	None
SB-12	9.56	4	7	5.56	2.56	strong naphthalene-like odor
SB-12	9.56	7	8	2.56	1.56	None

**Table 5-1 (continued)**  
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Boring ID	Ground Surface Elevation NAVD88	Top of Impact (ft bgs)	Bottom of Impact (ft bgs)	Top Elevation NAVD88	Bottom Elevation NAVD88	Impacts
SB-12	9.56	8	9	1.56	0.56	strong naphthalene-like odor
SB-12	9.56	9	10	0.56	-0.44	None
SB-12	9.56	10	16	-0.44	-6.44	strong naphthalene-like odor, tar blebs
SB-12	9.56	16	19	-6.44	-9.44	strong naphthalene-like odor
SB-12	9.56	19	25	-9.44	-15.44	moderate naphthalene-like odor
SB-12	9.56	25	30	-15.44	-20.44	strong naphthalene-like odor, sheen, tar blebs
SB-12	9.56	30	35	-20.44	-25.44	lenses saturated with tar
SB-12	9.56	35	50	-25.44	-40.44	None
SB-13	8.42	0	0.25	8.42	8.17	None
SB-13	8.42	0.25	2	8.17	6.42	moderate tar-like odor
SB-13	8.42	2	5	6.42	3.42	strong tar-like odor
SB-13	8.42	5	14	3.42	-5.58	strong tar-like odor, heavy tar sheen
SB-13	8.42	14	14	-5.58	-5.58	tar coating
SB-13	8.42	14	15	-5.58	-6.58	strong tar-like odor, heavy tar sheen
SB-13	8.42	15	18	-6.58	-9.58	moderate tar-like odor
SB-13	8.42	18	20	-9.58	-11.58	None
SB-13	8.42	20	23	-11.58	-14.58	moderate tar-like odor
SB-13	8.42	23	25	-14.58	-16.58	strong tar-like odor
SB-13	8.42	25	27	-16.58	-18.58	strong tar-like odor
SB-13	8.42	27	27	-18.58	-18.58	saturated with tar
SB-13	8.42	27	31	-18.58	-22.58	strong tar-like odor
SB-13	8.42	31	37	-22.58	-28.58	strong tar-like odor, saturated with tar
SB-13	8.42	37	40	-28.58	-31.58	strong tar-like odor, small seams of heavy tar sheen
SB-13	8.42	40	45	-31.58	-36.58	strong tar-like odor, heavy tar sheen
SB-13	8.42	45	50	-36.58	-41.58	strong tar-like odor, small blebs of tar in groundwater
SB-13	8.42	50	58	-41.58	-49.58	strong tar-like odor, heavy tar sheen
SB-13	8.42	58	70	-49.58	-61.58	None
SB-14	9.23	0	2	9.23	7.23	None
SB-14	9.23	2	6	7.23	3.23	strong tar-like odor, tar sheen
SB-14	9.23	6	8	3.23	1.23	moderate tar-like odor, tar sheen
SB-14	9.23	8	50	1.23	-40.77	None
SB-14	9.23	50	55	-40.77	-45.77	moderate coal/tar-like odor
SB-14	9.23	55	70	-45.77	-60.77	None
SB-15	11.46	0	0.25	11.46	11.21	None
SB-15	11.46	0.25	4	11.21	7.46	slight tar-like odor
SB-15	11.46	4	5	7.46	6.46	strong tar-like odor, small blebs of tar
SB-15	11.46	5	10	6.46	1.46	strong tar-like odor, heavy tar sheen, slight coating of tar
SB-15	11.46	10	15	1.46	-3.54	strong tar-like odor, heavy tar sheen
SB-15	11.46	15	20	-3.54	-8.54	moderate organic-like odor
SB-15	11.46	20	25	-8.54	-13.54	faint tar-like odor
SB-15	11.46	25	34	-13.54	-22.54	strong tar-like odor, weeping tar, heavy tar sheen
SB-15	11.46	34	34	-22.54	-22.54	tar coating
SB-15	11.46	34	35	-22.54	-23.54	strong tar-like odor
SB-15	11.46	35	37	-23.54	-25.54	moderate tar-like odor
SB-15	11.46	37	39	-25.54	-27.54	saturated with tar
SB-15	11.46	39	40	-27.54	-28.54	strong tar-like odor
SB-15	11.46	45	49	-33.54	-37.54	faint tar sheen, moderate tar-like odor
SB-15	11.46	49	52	-37.54	-40.54	faint tar-like odor
SB-15	11.46	52	70	-40.54	-58.54	None
SB-16	7.58	0	10	7.58	-2.42	None
SB-16	7.58	10	13	-2.42	-5.42	strong tar-like odor, tar coating
SB-16	7.58	13	20	-5.42	-12.42	None
SB-16	7.58	20	31	-12.42	-23.42	moderate tar-like odor
SB-16	7.58	31	36	-23.42	-28.42	strong tar-like odor
SB-16	7.58	36	70	-28.42	-62.42	moderate tar-like odor
SB-17	7.15	0	0.25	7.15	6.90	slight hydrocarbon/naphthalene odor
SB-17	7.15	0.25	2	6.90	5.15	slight hydrocarbon/naphthalene-like odor
SB-17	7.15	2	4	5.15	3.15	moderate hydrocarbon/naphthalene-like odor
SB-17	7.15	4	5	3.15	2.15	strong hydrocarbon/naphthalene-like odor

**Table 5-1 (continued)**  
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**Metropolitan Former MGP Site, Brooklyn, New York**

Boring ID	Ground Surface Elevation NAVD88	Top of Impact (ft bgs)	Bottom of Impact (ft bgs)	Top Elevation NAVD88	Bottom Elevation NAVD88	Impacts
SB-17	7.15	5	11	2.15	-3.85	None
SB-17	7.15	11	15	-3.85	-7.85	strong tar-like odor
SB-17	7.15	15	30	-7.85	-22.85	None
SB-17	7.15	30	32	-22.85	-24.85	slight tar-like odor
SB-17	7.15	32	50	-24.85	-42.85	None
SB-18	7.00	0	0.75	7.00	6.25	None
SB-18	7.00	0.75	4	6.25	3.00	strong tar-like odor
SB-18	7.00	4	5	3.00	2.00	strong tar-like odor, slight tar sheen
SB-18	7.00	5	10	2.00	-3.00	slight tar-like odor
SB-18	7.00	10	16	-3.00	-9.00	slight organic odor
SB-18	7.00	16	16	-9.00	-9.00	small bleb
SB-18	7.00	16	21	-9.00	-14.00	slight organic odor
SB-18	7.00	21	24	-14.00	-17.00	moderate tar-like odor
SB-18	7.00	24	26	-17.00	-19.00	slight tar-like odor
SB-18	7.00	26	28	-19.00	-21.00	strong tar-like odor
SB-18	7.00	28	30	-21.00	-23.00	strong tar-like odor, tar saturated
SB-18	7.00	30	34.5	-23.00	-27.50	strong tar-like odor, tar weeping from soil, heavy tar sheen
SB-18	7.00	34.5	50	-27.50	-43.00	strong tar-like odor
SB-18	7.00	50	61	-43.00	-54.00	slight tar-like odor
SB-18	7.00	61	70	-54.00	-63.00	None
SB-19/MW-19S/I	10.91	0	5	10.91	5.91	None
SB-19/MW-19S/I	10.91	5	10	5.91	0.91	non-MGP staining
SB-19/MW-19S/I	10.91	10	13	0.91	-2.09	tar-like odor
SB-19/MW-19S/I	10.91	13	15	-2.09	-4.09	trace DNAPL
SB-19/MW-19S/I	10.91	15	25	-4.09	-14.09	None
SB-19/MW-19S/I	10.91	25	27.5	-14.09	-16.59	slight organic odor
SB-19/MW-19S/I	10.91	27.5	30	-16.59	-19.09	naphthalene-like odor, two inch tar coated lens
SB-19/MW-19S/I	10.91	30	32.5	-19.09	-21.59	moderate naphthalene-like odor
SB-19/MW-19S/I	10.91	32.5	34	-21.59	-23.09	tar coating
SB-19/MW-19S/I	10.91	34	37	-23.09	-26.09	slight naphthalene-like odor, top 4 inches tar-like staining
SB-19/MW-19S/I	10.91	37	37.5	-26.09	-26.59	trace NAPL, tar coated and tar saturated
SB-19/MW-19S/I	10.91	37.5	40.5	-26.59	-29.59	slight naphthalene-like odor
SB-19/MW-19S/I	10.91	40.5	43.5	-29.59	-32.59	moderate naphthalene-like odor
SB-19/MW-19S/I	10.91	43.5	55	-32.59	-44.09	None
SB-19/MW-19S/I	10.91	55	57.5	-44.09	-46.59	slight naphthalene-like odor
SB-19/MW-19S/I	10.91	57.5	60	-46.59	-49.09	None
SB-19/MW-19S/I	10.91	60	63	-49.09	-52.09	slight naphthalene-like odor
SB-19/MW-19S/I	10.91	63	65	-52.09	-54.09	None
SB-19/MW-19S/I	10.91	65	69	-54.09	-58.09	slight naphthalene-like odor
SB-19/MW-19S/I	10.91	69	70	-58.09	-59.09	None
SB-19/MW-19S/I	10.91	70	75	-59.09	-64.09	slight naphthalene-like odor
SB-19/MW-19S/I	10.91	75	85	-64.09	-74.09	None
SB-20/MW-201I/S	11.69	0	4	11.69	7.69	None
SB-20/MW-201I/S	11.69	4	5	7.69	6.69	trace black staining
SB-20/MW-201I/S	11.69	5	7	6.69	4.69	slight black staining
SB-20/MW-201I/S	11.69	7	9	4.69	2.69	trace black staining
SB-20/MW-201I/S	11.69	9	10	2.69	1.69	tar-like odor, slight black staining
SB-20/MW-201I/S	11.69	10	12.5	1.69	-0.81	slight tar-like odor, little tar-like staining
SB-20/MW-201I/S	11.69	12.5	15	-0.81	-3.31	tar-like odor, black staining
SB-20/MW-201I/S	11.69	15	20	-3.31	-8.31	naphthalene-like odor
SB-20/MW-201I/S	11.69	20	30	-8.31	-18.31	None
SB-20/MW-201I/S	11.69	30	32	-18.31	-20.31	slight tar-like odor
SB-20/MW-201I/S	11.69	32	32	-20.31	-20.31	black stained lens
SB-20/MW-201I/S	11.69	32	35	-20.31	-23.31	slight tar-like odor
SB-20/MW-201I/S	11.69	35	40	-23.31	-28.31	None
SB-20/MW-201I/S	11.69	40	45	-28.31	-33.31	slight naphthalene-like odor
SB-20/MW-201I/S	11.69	45	50	-33.31	-38.31	naphthalene-like odor
SB-20/MW-201I/S	11.69	50	57.5	-38.31	-45.81	moderate naphthalene-like odor
SB-20/MW-201I/S	11.69	57.5	60	-45.81	-48.31	naphthalene-like odor

**Table 5-1 (continued)**  
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**Metropolitan Former MGP Site, Brooklyn, New York**

Boring ID	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Top Elevation NAVD88	Bottom Elevation NAVD88	Impacts
SB-20/MW-201I/S	11.69	60	68	-48.31	-56.31	None
SB-20/MW-201I/S	11.69	68	70	-56.31	-58.31	slight naphthalene-like odor
SB-20/MW-201I/S	11.69	70	85	-58.31	-73.31	None
SB-21/MW-21/D	10.07	0	10	10.07	0.07	None
SB-21/MW-21/D	10.07	10	14	0.07	-3.93	trace black staining
SB-21/MW-21/D	10.07	14	22	-3.93	-11.93	little black staining
SB-21/MW-21/D	10.07	22	28	-11.93	-17.93	slight naphthalene-like odor
SB-21/MW-21/D	10.07	28	31	-17.93	-20.93	None
SB-21/MW-21/D	10.07	31	43.5	-20.93	-33.43	naphthalene-like odor
SB-21/MW-21/D	10.07	43.5	90	-33.43	-79.93	None
SB-22/MW-22I/D	8.12	0	12	8.12	-3.88	None
SB-22/MW-22I/D	8.12	12	15	-3.88	-6.88	Tar-like odor
SB-22/MW-22I/D	8.12	15	15.1	-6.88	-6.98	None
SB-22/MW-22I/D	8.12	15.1	15.2	-6.98	-7.08	Tar staining
SB-22/MW-22I/D	8.12	15.2	90	-7.08	-81.88	None
SB-23/MW-23D	5.22	0	90	5.22	-84.78	None
SB-24	8.16	0	90	8.16	-81.84	None
SB-25/MW-25S/I	6.51	0	90	6.51	-83.49	None
SB-26	12.35	0	70	12.35	-57.65	None
TP-1	8.85	0	3.85	8.85	5	None
TP-2	11.4	1	2.5	10.4	8.9	Fuel oil like odor
TP-2	11.4	2.5	4.5	8.9	6.9	MGP-like odor
TP-2	11.4	4.5	4.6	6.9	6.8	2 centimeter thick oil like material on infiltrating water
TP-2	11.4	4.6	6.5	6.8	4.9	MGP-like odor

Notes:

NAVD 88 - North American Vertical Datum of 1988

ft bgs - feet below ground surface

NAPL - non-aqueous phase liquid

DNAPL - dense non-aqueous phase liquid

MGP - manufactured gas plant