

TABLES

Table 2-1
Groundwater Elevations in Micro-Wells
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Well Designation	Top of Riser Elevation	05/22/03		06/03/03		07/16/03		07/30/03	
		Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)
MW-1	498.69	2.89	495.80	3.27	495.42	3.07	495.62	5.99	492.70
MW-2	499.80	5.33	494.47	5.92	493.88	7.41	492.39	8.15	491.65
MW-3	496.09	3.92	492.17	4.17	491.92	7.83	488.26	8.83	487.26
MW-4	501.03	4.74	496.29	5.09	495.94	6.39	494.64	6.77	494.26
MW-5	499.11	3.34	495.77	3.70	495.41	6.15	492.96	6.89	492.22
MW-6	500.48	5.02	495.46	5.36	495.12	9.22	491.26	10.69	489.79
MW-11	499.75	4.88	494.87	5.05	494.70	10.83	488.92	10.83	488.92
MW-12	498.05	4.11	493.94	4.45	493.60	9.83	488.22	11.56	486.49

Well Designation	Top of Riser Elevation	09/03/03		10/01/03		10/31/03		11/21/03	
		Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)
MW-1	498.69	6.39	492.30	7.83	490.86	4.50	494.19	2.97	495.72
MW-2	499.80	8.97	490.83	9.72	490.08	8.91	490.89	5.66	494.14
MW-3	496.09	10.75	485.34	12.67	483.42	11.57	484.52	7.30	488.79
MW-4	501.03	8.63	492.40	10.37	490.66	11.26	489.77	9.65	491.38
MW-5	499.11	8.14	490.97	10.25	488.86	9.27	489.84	5.67	493.44
MW-6	500.48	11.38	489.10	11.38	489.10	11.38	489.10	11.38	489.10
MW-11	499.75	10.83	488.92	10.83	488.92	10.83	488.92	10.83	488.92
MW-12	498.05	11.56	486.49	11.56	486.49	11.56	486.49	11.56	486.49

Notes:

Shaded values represent dry wells. The depths given are to the bottom of the well screen.

Table 2-1
Groundwater Elevations in Micro-Wells
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Well Designation	Top of Riser Elevation	04/16/08		04/29/08		05/22/08		06/25/08	
		Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)	Depth to Water (ft)	Elevation (ft amsl)
MW-1	498.69	3.03	495.66	3.33	495.36	3.69	495.00	6.57	492.12
MW-2	499.80	5.54	494.26	5.52	494.28	5.76	494.04	7.37	492.43
MW-3	496.09	3.91	492.18	4.05	492.04	4.47	491.62	6.15	489.94
MW-4	501.03	4.83	496.20	5.15	495.88	5.45	495.58	6.49	494.54
MW-5	499.11	3.68	495.43	3.85	495.26	4.09	495.02	6.37	492.74
MW-6	500.48	5.13	495.35	5.26	495.22	5.56	494.92	8.94	491.54
MW-11	499.75	4.79	494.96	4.87	494.88	5.40	494.35	9.65	490.10
MW-12	498.05	4.24	493.81	4.37	493.68	4.72	493.33	8.06	489.99

Notes:

Shaded values represent dry wells. The depths given are to the bottom of the well screen.

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Lime Waste Samples						
W-2	12/17/99	1500	2.0'	Metals, Cyanide, Leachable pH	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
WP-13	06/21/00	1345	0.0' - 2.4'	Herbicides, Metals, Sulfur, Boron	Coarse grained, cream colored, lime-like material in the Filled Lagoon. EPA boring WP-13	Table 2-3
SB-4	05/21/03	1300	0.0' - 4.0'	SVOCs, Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
SB-8	05/21/03	1530	0.0' - 4.0'	Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
SB-9	05/21/03	1450	0.0' - 4.0'	Metals, Sulfur, Boron	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
SB-10	05/21/03	1410	0.0' - 4.0'	SVOCs, Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
SB-13	05/21/03	1430	3.5' - 5.0'	Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Coarse grained, cream colored, lime-like material in the Filled Lagoon	Table 2-3
Sludge Samples						
WP-13	06/21/00	1345	2.4' - 3.2'	Herbicides, Metals, Sulfur, Boron	Dark green sludge in Filled Lagoon. EPA boring WP-13	Table 2-4A
SLDG-5	01/24/01	1500	NR	Metals	Stabilized lagoon sludge in the South Lagoon	Table 2-4A
SB-4	05/21/03	1300	4.0' - 8.0'	SVOCs, Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Green-blue sludge in the Filled Lagoon	Table 2-4A
SB-9	05/21/03	1450	4.0' - 8.0'	Metals, Sulfur, Boron	Green-blue sludge in the Filled Lagoon	Table 2-4A
SB-13	05/21/03	1430	5.0' - 6.0'	Herbicides, Metals, Sulfur, Boron	Green-blue sludge in the Filled Lagoon	Table 2-4A
SB-14	05/21/03	1410	4.0' - 7.0'	Pesticides, Herbicides, Metals, Sulfur, Boron	Green-blue sludge in the South Lagoon	Table 2-4A
A(-2)	08/07/13	0850	4.0'	RCRA Metals	Sludge from the southern portion of the site	Table 2-4B
A1	08/05/13	0953	4.0'	Arsenic	Sludge from the southern portion of the site	Table 2-4B
B(-2)	08/07/13	0930	4.0'	RCRA Metals	Sludge from the southern portion of the site	Table 2-4B
B(-1)	08/06/13	0930	4.0'	RCRA Metals	Sludge from the southern portion of the site	Table 2-4B
C(-1)	08/06/13	1002	3.0'	RCRA Metals	Sludge from the southern portion of the site	Table 2-4B
Miscellaneous Fill Samples						
A(-2)	08/07/13	0850	2.0'	Arsenic	Reworked soil from the southern portion of the site	Table 2-5A
A0	08/05/13	1500	2.3'	Arsenic	Granular fill from the southern portion of the site	Table 2-5A
A2	08/05/13	1025	1.2'	Arsenic	Cinder fill from the southern portion of the site	Table 2-5A

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Miscellaneous Fill Samples (continued)						
B(-2)	08/07/13	0930	2.0'	Arsenic	Reworked soil from the southern portion of the site	Table 2-5A
B(-2)	08/07/13	0930	5.5'	RCRA Metals	Granular fill from the southern portion of the site	Table 2-5B
B(-1)	08/06/13	0930	2.0'	Arsenic	Reworked soil from the southern portion of the site	Table 2-5A
C(-2)	08/07/13	0955	2.0'	Arsenic	Reworked soil from the southern portion of the site	Table 2-5A
D7	07/15/13	1147	2.0'	Arsenic	Granular fill from the southern portion of the site	Table 2-5A
G(-1)	08/06/13	1300	2.2'	RCRA Metals	Cinder fill from the southern portion of the site	Table 2-5B
G1	08/07/13	1312	1.6'	RCRA Metals	Ash with coal from the southern portion of the site	Table 2-5B
B-5R	08/06/13	0845	6.0'	RCRA Metals	Fill from the southern portion of the site	Table 2-5B
Surface Soil Samples						
S-16	08/23/01	1708	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-17	08/23/01	1705	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-22	08/23/01	1715	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-25	08/23/01	1630	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-26	08/23/01	1635	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-27	08/23/01	1639	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-28	08/23/01	1644	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-29	08/23/01	1648	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-30	08/23/01	1655	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-31	08/23/01	1700	Surface ●	Arsenic	Soil from the former Chip Area	Table 2-6A
S-32	08/23/01	1719	Surface ●	Arsenic	Soil from the Swale near the former Chip Area	Table 2-6A
S-33	08/23/01	1725	Surface ●	Arsenic	Soil from the Swale near the former Chip Area	Table 2-6A
S-34	08/23/01	1730	Surface ●	Arsenic	Soil from the Swale near the former Chip Area	Table 2-6A
SS-3	06/13/12	1300	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil near the gravel drive near West Somerset Road	Table 2-6B
SS-6	06/13/12	1300	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil west of the former Office Building	Table 2-6B
SS-13	06/13/12	1300	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil east of the Western Storage Building	Table 2-6B
SS-29	06/13/12	1515	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil northwest of the former Chip Area	Table 2-6B
SS-40	06/13/12	1515	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from the NE portion of the property in woods	Table 2-6B
SS-45	06/13/12	1515	Surface ●	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from the NW corner of the property in woods	Table 2-6B
A2	05/07/13	0940	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Surface Soil Samples (continued)						
A7	05/07/13	1005	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
B5	05/07/13	1045	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
B7	05/07/13	1035	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
D4	05/07/13	1325	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
D5	05/07/13	1320	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
D6	05/07/13	1315	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
D7	05/07/13	1200	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
E3	05/14/13	1035	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
E5	05/14/13	1025	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
E6	05/14/13	1020	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
E7	05/14/13	1015	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
F2	05/14/13	1118	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
F3	05/14/13	1112	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
F4	05/14/13	1107	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
F5	05/14/13	1103	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
F6	05/14/13	1100	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
SB-2	07/17/13	1033	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
SB-3	07/17/13	0932	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
SB-5	07/17/13	0842	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
SB-6	07/17/13	1055	0.0' - 0.17'	Arsenic	Soil from the southern portion of the site	Table 2-6A
Subsurface Soil Samples						
WP-6	06/21/00	1515	5.7' - 8.0'	SVOCs, Herbicides, Metals, Sulfur, Boron, Leachable pH	Dark red glacial till under the Filled Lagoon. EPA boring WP-6	Table 2-7A
WP-13	06/21/00	1345	3.2' - 4.2'	SVOCs, Herbicides, Metals, Sulfur, Boron, TPH, Leachable pH	Black stained glacial till under the Filled Lagoon. EPA boring WP-13	Table 2-7A
S-4B	12/13/00	1410	3.0' - 4.0'	VOCs, SVOCs, PCBs, TCLP, Pesticides, Herbicides, Metals	Soil underlying the former Production Building EPA sample PB-SB-01	Table 2-7A
S-5B	12/13/00	1420	3.0' - 4.0'	VOCs, SVOCs, PCBs, TCLP, Pesticides, Herbicides, Metals	Soil underlying the former Production Building	Table 2-7A
S-6B	12/13/00	1430	3.0' - 4.0'	VOCs, SVOCs, PCBs, TCLP, Pesticides, Herbicides, Metals	Soil underlying the former Production Building	Table 2-7A

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
S-8A	08/22/01	1711	2.0'	Pesticides, Herbicides, Metals, TCLP Metals	Soil underlying the former Eastern Storage Building	Table 2-7A
S-8B	08/22/01	1630	4.0'	Pesticides, Herbicides, Metals, TCLP Metals	Soil underlying the former Eastern Storage Building	Table 2-7A
S-11	08/22/01	1142	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-11	08/22/01	1147	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-12	08/22/01	1243	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-12	08/22/01	1245	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-13	08/22/01	1350	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-13	08/22/01	1351	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-15	08/22/01	1436	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-16	08/23/01	1108	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-16	08/23/01	1110	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-17	08/23/01	1141	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-17	08/23/01	1143	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-18	08/22/01	1154	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-18	08/22/01	1155	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-19	08/22/01	1237	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-19	08/22/01	1240	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-20	08/22/01	1357	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-20	08/22/01	1359	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-21	08/22/01	1414	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-21	08/22/01	1416	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-22	08/22/01	1445	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-22	08/22/01	1447	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-23	08/23/01	1113	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-23	08/23/01	1114	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-24	08/23/01	1150	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-24	08/23/01	1154	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-25	08/22/01	1211	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-25	08/22/01	1214	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
S-26	08/22/01	1219	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-26	08/22/01	1220	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-27	08/23/01	1105	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-27	08/23/01	1106	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-28	08/22/01	1422	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-28	08/22/01	1424	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-29	08/23/01	1059	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-29	08/23/01	1100	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-30	08/23/01	1054	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-30	08/23/01	1055	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-31	08/23/01	1202	2.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-31	08/23/01	1204	4.0'	Arsenic	Soil from the former Chip Area	Table 2-7B
S-32	08/23/01	1310	2.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
S-32	08/23/01	1313	4.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
S-33	08/23/01	1322	2.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
S-33	08/23/01	1325	4.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
S-34	08/23/01	1434	2.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
S-34	08/23/01	1438	4.0'	Arsenic	Soil from the Swale near the former Chip Area	Table 2-7B
SB-1	05/20/03	1130	0.0' - 4.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Sand zone in boring SB-1 near West Somerset Road	Table 2-7C
SB-2	05/20/03	1250	0.0' - 4.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Sand zone in boring SB-2 near West Somerset Road	Table 2-7C
SB-3	05/20/03	1455	9.0' - 9.8'	Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Gray-blue stained soil in boring SB-3 (east of the South Lagoon) with a hydrogen sulfide odor	Table 2-7C
SB-5	05/21/03	1115	4.0' - 5.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Stained soil in boring SB-5 (west of the North Lagoon) with a hydrogen sulfide odor	Table 2-7C
SB-6	05/21/03	0920	0.0' - 4.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Till zone in boring SB-6 in the former Chip Area	Table 2-7C
SB-7	05/20/03	1545	0.0' - 4.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Sand zone in boring SB-7 north of the North Lagoon	Table 2-7C
SB-10	05/21/03	1410	4.0' - 8.0'	SVOCs, Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	Stained soil in boring SB-10 in the Filled Lagoon	Table 2-7C
SB-12	05/21/03	0815	0.0' - 4.0'	Pesticides, Herbicides, Metals, Boron, Leachable pH	Sand zone in boring SB-12 north of the North Lagoon	Table 2-7D
B1	06/14/12	0900	8.0' - 10.0'	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from the former Chip Area	Table 2-7D

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
B2	06/14/12	1000	8.0' - 10.0'	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from the former Chip Area	Table 2-7D
B3	06/14/12	1120	8.0' - 10.0'	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from the former Chip Area	Table 2-7D
B4	06/15/12	0830	7.0' - 9.0'	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil from Storage Tank spill area	Table 2-7D
B9	06/15/12	1620	5.0' - 7.0'	SVOCs, Pesticides, Metals, Sulfur, Leachable pH	Soil west of the former Office Building	Table 2-7D
A(-2)	08/07/13	0850	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A(-2)	08/07/13	0850	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A(-1)	08/05/13	1600	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A(-1)	08/05/13	1600	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A0	08/05/13	1500	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A0	08/05/13	1500	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A0	08/05/13	1500	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A1	07/10/13	1020	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A1	07/10/13	1020	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A1	07/10/13	1020	10.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A2	07/10/13	1107	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A2	07/10/13	1107	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A2	07/10/13	1107	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A3	08/05/13	1052	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A3	07/10/13	1140	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A3	08/05/13	1052	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A3	07/10/13	1140	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A3	07/10/13	1140	8.3'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A4	07/10/13	1207	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A4	07/10/13	1207	5.6'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A5	07/10/13	1320	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A5	07/10/13	1320	6.9'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A6	07/10/13	1350	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A6	07/10/13	1350	6.4'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A7	07/10/13	1415	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
A7	07/10/13	1415	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
A7	07/10/13	1415	5.4'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B(-2)	08/07/13	0930	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B(-1)	08/06/13	0930	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B(-1)	08/06/13	0930	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B0	08/05/13	1412	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B0	08/05/13	1412	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B1	07/12/13	1007	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B1	07/12/13	1007	6.9'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B2	07/12/13	0940	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B2	07/12/13	0940	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B3	07/12/13	0905	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B3	07/12/13	0905	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B4	07/12/13	0817	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B4	07/12/13	0817	5.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B5	07/10/13	1520	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B5	07/10/13	1520	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B5	07/10/13	1520	6.4'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B6	07/10/13	1500	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B6	07/10/13	1500	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B7	07/10/13	1440	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B7	07/10/13	1440	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B7	07/10/13	1440	5.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C(-2)	08/07/13	0955	4.0'	RCRA Metals	Stained soil from the southern portion of the site	Table 2-7F
C(-2)	08/07/13	0955	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C(-1)	08/06/13	1002	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C(-1)	08/06/13	1002	7.3'	RCRA Metals	Stained soil from the southern portion of the site	Table 2-7F
C0(-5)	07/12/13	1110	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C0(-5)	07/12/13	1110	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
C0(-5)	07/12/13	1110	8.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C1	08/05/13	1340	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C1	08/05/13	1340	7.3'	Arsenic	Stained soil from the southern portion of the site	Table 2-7E
C2	07/12/13	1155	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C2	07/12/13	1155	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C3	07/12/13	1312	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C4	07/12/13	1342	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C4	07/12/13	1342	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C5	07/12/13	1407	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C5	07/12/13	1407	5.6'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C6	07/12/13	1430	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C6	07/12/13	1430	5.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C7	07/12/13	1450	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
C7	07/12/13	1450	5.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D(-2)	08/07/13	1030	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D(-2)	08/07/13	1030	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D(-1)	08/06/13	1045	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D(-1)	08/06/13	1045	7.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D0	07/15/13	0825	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D0	07/15/13	0825	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D0	07/15/13	0825	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D0	07/15/13	0825	7.5'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D1	08/05/13	1105	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D1	07/15/13	0852	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D1	07/15/13	0852	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D1	07/15/13	0852	7.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D2	07/15/13	0920	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D2	07/15/13	0920	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D2	07/15/13	0920	7.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
D3	07/15/13	1010	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D3	07/15/13	1010	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D3	07/15/13	1010	7.6'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D4	07/15/13	1037	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D4	07/15/13	1037	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D4	07/15/13	1037	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D5	07/15/13	1105	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D5	07/15/13	1105	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D5	07/15/13	1105	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D6	07/15/13	1125	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D6	07/15/13	1125	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D6	07/15/13	1125	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D7	07/15/13	1147	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
D7	07/15/13	1147	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E(-2)	08/07/13	1132	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E(-1)	08/06/13	1115	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E(-1)	08/06/13	1115	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E(-1)	08/06/13	1115	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E0	07/16/13	1007	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E0	07/16/13	1007	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E0	07/16/13	1007	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E1	08/05/13	1143	2.2'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E1	07/16/13	0922	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E1	07/16/13	0922	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E1	07/16/13	0922	7.3'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E2	07/16/13	0840	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E2	07/16/13	0840	5.6'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E3	07/16/13	0807	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E3	07/16/13	0807	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
E3	07/16/13	0807	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E4	07/15/13	1432	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E4	07/15/13	1432	5.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E5	07/15/13	1410	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E5	07/15/13	1410	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E5	07/15/13	1410	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E6	07/15/13	1340	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E6	07/15/13	1340	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E7	07/15/13	1315	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E7	07/15/13	1315	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
E7	07/15/13	1315	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F(-1)	08/06/13	1142	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F(-1)	08/06/13	1142	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F(-1)	08/06/13	1142	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F0	07/16/13	1105	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F0	07/16/13	1105	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F0	07/16/13	1105	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F1	07/16/13	1130	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F1	07/16/13	1130	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F1	07/16/13	1130	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F2	07/16/13	1252	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F2	07/16/13	1252	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F3	07/16/13	1321	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F3	07/16/13	1321	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F4	07/16/13	1345	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F4	07/16/13	1345	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F4	07/16/13	1345	5.7'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F5	07/16/13	1406	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
F5	07/16/13	1406	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F6	07/16/13	1442	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F6	07/16/13	1442	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F6	07/16/13	1442	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F7	07/17/13	0810	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
F7	07/17/13	0810	5.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G(-1)	08/06/13	1300	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G0	08/06/13	1340	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G0	08/06/13	1340	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G1	08/07/13	1312	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G1	08/07/13	1312	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G2	08/07/13	1341	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G2	08/07/13	1341	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
G2	08/07/13	1341	5.8'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-1	07/16/13	1030	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-1	07/16/13	1030	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-1	07/16/13	1030	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-2	07/17/13	1033	1.9'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-2	07/17/13	1033	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-3	07/17/13	0932	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-3	07/17/13	0932	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-4	07/17/13	0900	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-4	07/17/13	0900	5.5'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-5	07/17/13	0842	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-5	07/17/13	0842	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-5	07/17/13	0842	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-6	07/17/13	1055	3.1'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-6	07/17/13	1055	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-7	07/17/13	1130	2.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
SB-7	07/17/13	1130	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-7	07/17/13	1130	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
SB-7	07/17/13	1130	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-5R	08/06/13	0845	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-7R	08/05/13	1307	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-7R	08/05/13	1307	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-7R	08/05/13	1307	8.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-8R	08/07/13	1140	4.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
B-8R	08/07/13	1140	6.0'	Arsenic	Native soil from the southern portion of the site	Table 2-7E
Sediment Samples						
SED-1	06/21/00	NR	NR	Herbicides, Metals, Sulfur, Boron	Boundary Ditch downstream of the former Low pH Trough	Table 2-9A
SED-2	06/21/00	NR	NR	Herbicides, Metals, Sulfur, Boron	Boundary Ditch upstream of the former Low pH Trough	Table 2-9A
SED-5	12/14/00	1100	NR	VOCs, SVOCs, PCBs, Pesticides, Metals	Boundary Ditch at the 90 ^o bend	Table 2-9A
SED-6	09/03/03	830	0.0' - 0.08'	SVOCs, Pesticides, Herbicides, Metals, Boron, Leachable pH	Boundary Ditch at West Somerset Road	Table 2-9A
SED-7	09/03/03	905	0.0' - 0.17'	SVOCs, Pesticides, Herbicides, Metals, Boron, Leachable pH	Boundary Ditch at the 90 ^o bend	Table 2-9B
SED-8	09/03/03	915	0.17' - 0.33'	SVOCs, Pesticides, Herbicides, Metals, Boron, Leachable pH	Historic Ditch east of the North Lagoon	Table 2-9B
SED-11	09/03/03	935	0.0' - 0.17'	SVOCs, Pesticides, Herbicides, Metals, Sulfur, Boron, Leachable pH	North end of Poned Water Area	Table 2-9B
Surface Water Samples						
SW-7	04/30/08	1425	N/A	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Center of the Poned Water Area	Table 2-10
SW-8	05/01/08	1155	N/A	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Southeast corner of the North Lagoon	Table 2-10
SW-9	04/30/08	1345	N/A	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Former Low pH Trough south of Filled Lagoon	Table 2-10
SW-1	06/13/12	1145	N/A	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Boundary Ditch at the 90 ^o bend	Table 2-10
SW-2	06/13/12	1200	N/A	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Northeast corner of the North Lagoon	Table 2-10

Table 2.2A
Summary of Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Groundwater Samples						
MW-1	04/30/08 & 05/01/08	1000 & 1020	4.0' - 6.0'	VOCs, Pesticides, Metals, Sulfate, Sulfide	West side of site near the Western Storage Building and West Somerset Road	Table 2-12A
MW-2	04/30/08 & 05/01/08	1030 & 1030	4.0' - 6.0'	VOCs, Pesticides, Metals, Sulfate, Sulfide	East side of site near West Somerset Road	Table 2-12A
MW-3	04/30/08 & 05/01/08	1040 & 1050	5.0' - 9.0'	VOCs, Pesticides, Metals, Sulfate, Sulfide	West of the 90° bend in the Eastern Boundary Ditch	Table 2-12A
MW-4	04/30/08	1315	3.5' - 10.5'	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	In the Filled Lagoon	Table 2-12A
MW-5	04/30/08 & 05/01/08	1100 & 1105	3.0' - 13.0'	VOCs, Pesticides, Metals, Sulfate, Sulfide	West of the North Lagoon	Table 2-12A
MW-6	04/30/08 & 05/01/08	1115 & 1110	4.0' - 7.5'	VOCs, Pesticides, Metals, Sulfate, Sulfide	Northwest of the North Lagoon	Table 2-12B
MW-12	04/30/08	1140	4.0' - 8.0'	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	Northeast of the North Lagoon	Table 2-12B
MW-3	06/15/12	1140	5.0' - 9.0'	Pesticides	West of the 90° bend in the Eastern Boundary Ditch	Table 2-12A
MW-5	06/15/12	1115	3.0' - 13.0'	Pesticides, Metals, Sulfate, Sulfide	West of the North Lagoon	Table 2-12A
TPMW-3	06/15/12	1250	4.0' - 9.0'	VOCs, SVOCs, Pesticides, Metals, Sulfate, Sulfide	In the Storage Tank spill area	Table 2-12B

Notes:

VOCs = Volatile Organic Compounds.

SVOCs = Semivolatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

TPHs = Total Petroleum Hydrocarbons.

N/A = Not Applicable.

NR = Not Reported.

● = The sample was described as a surface soil sample but the exact sample interval was not specified.

For groundwater samples, the sample interval is the screen interval.

Table 2.2B
Summary of Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Confirmatory Samples						
CONF-1	11/15/00	NR	1.5'	VOCS, SVOCS, PCBs, Pesticides, Metals	Native soil underlying the former Barren Strip	Table 2-8A
CONF-2	11/15/00	NR	1.5'	VOCS, SVOCS, PCBs, Pesticides, Metals	Native soil underlying the former Barren Strip	Table 2-8A
CONF-3	11/15/00	NR	1.5'	VOCS, SVOCS, PCBs, Pesticides, Metals	Native soil underlying the former Barren Strip	Table 2-8A
CONF-4	12/14/00	1045	NR	VOCs, SVOCs, PCBs, Pesticides, Metals	Native soil underlying the Ponded Water Area east of the South Lagoon	Table 2-8A
CONF-5	12/14/00	1015	NR	VOCs, SVOCs, PCBs, Pesticides, Metals	Native soil underlying the former Low pH Trough	Table 2-8A
CONF-6	12/14/00	1030	NR	VOCs, SVOCs, PCBs, Pesticides, Metals	Native soil underlying the former Low pH Trough	Table 2-8A
CONF-7	05/15/01	1230	NR	Metals	Native soil underlying the Drainage Ditch south of the Filled Lagoon	Table 2-8B
CONF-8	05/15/01	1130	2.0'	Metals	Native soil underlying the former Production Building	Table 2-8B
CONF-9	05/15/01	1145	2.0'	Metals	Native soil underlying the former Production Building	Table 2-8B
CONF-10	06/25/01	1530	NR	Pesticides, Herbicides, Metals	Native soil underlying the North Lagoon	Table 2-8B
CONF-11	06/25/01	1530	NR	Pesticides, Herbicides, Metals	Native soil underlying the North Lagoon	Table 2-8B
F-1	02/26/14	0950	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-2	02/26/14	0956	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-1	02/26/14	1000	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-2	02/26/14	1005	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-3	02/26/14	1011	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-3	02/26/14	1212	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-4	02/26/14	1232	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-5	02/28/14	0915	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-6	02/28/14	0922	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-5	02/28/14	0928	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-7	02/28/14	1357	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-8	02/28/14	1405	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-6	03/03/14	0905	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-7	03/03/14	0909	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-9	03/03/14	0918	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-10	03/03/14	0923	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C

Table 2.2B
Summary of Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Confirmatory Samples (continued)						
W-9	03/03/14	0932	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-10	03/03/14	0937	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-11	03/03/14	0944	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-12	03/03/14	0951	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-11	03/03/14	1152	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-12	03/03/14	1156	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-13	03/03/14	1159	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-13	03/03/14	1205	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-14	03/03/14	1232	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-14	03/03/14	1234	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-15	03/03/14	1240	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-15	03/03/14	1457	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-16	03/03/14	1450	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-16	03/04/14	1405	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-17	03/04/14	1410	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-18	03/04/14	1415	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-19	03/04/14	1420	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-20	03/04/14	1425	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-21	03/04/14	1430	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-17	03/04/14	1440	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-4R	03/04/14	0805	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-22	03/04/14	1450	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-23	03/04/14	1455	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-24	03/05/14	1220	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-25	03/05/14	1225	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-26	03/05/14	1230	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-27	03/05/14	1235	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-18	03/05/14	1240	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-19	03/05/14	1245	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C

Table 2.2B
Summary of Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Confirmatory Samples (continued)						
W-20	03/05/14	1250	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-21	03/05/14	1255	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-22	03/05/14	1300	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-23	03/05/14	1305	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-24	03/05/14	1310	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-28	03/05/14	1535	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-25	03/05/14	1540	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-29	03/07/14	1100	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-26	03/07/14	1107	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-27	03/07/14	1111	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-28	03/07/14	1119	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-30	03/07/14	1127	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-31	03/07/14	1134	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-29	03/07/14	1144	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-32	03/10/14	0845	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-33	03/10/14	0851	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-30	03/10/14	0900	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-31	03/10/14	0911	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-32	03/10/14	0917	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-33	03/10/14	0933	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-34	03/10/14	1117	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-35	03/10/14	1123	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-34	03/10/14	1129	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-36	03/10/14	1400	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-37	03/10/14	1408	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-36	03/10/14	1416	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-37	03/10/14	1420	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-38	03/11/14	0855	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-39	03/11/14	0902	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C

Table 2.2B
Summary of Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Confirmatory Samples (continued)						
W-38	03/11/14	0907	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-39	03/11/14	0912	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-40	03/11/14	0917	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-40	03/11/14	0930	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-41	03/11/14	0937	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-42	03/11/14	0941	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-43	03/11/14	0946	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-44	03/11/14	0950	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-41	03/11/14	1140	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-42	03/11/14	1146	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-45	03/11/14	1150	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-46	03/11/14	1154	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-47	03/11/14	1158	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-43	03/14/14	0834	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-44	03/14/14	0842	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-48	03/14/14	0847	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-49	03/14/14	0851	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-50	03/14/14	0856	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-45	03/14/14	0950	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-46	03/14/14	0956	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-47	03/14/14	1325	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-48	03/14/14	1332	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-49	03/17/14	0910	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-50	03/17/14	0916	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-51	03/17/14	0936	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-51	03/17/14	1144	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-52	03/17/14	1151	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-52	03/17/14	1156	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-53	03/17/14	1200	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C

Table 2.2B
Summary of Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample ID	Date Sampled	Time Sampled	Sample Depth	Analytical Parameters	Sample Description and/or Location	Table Reference
Confirmatory Samples (continued)						
W-54	03/17/14	0923	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-53	03/18/14	0900	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-54	03/18/14	0912	≈ 3'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-55	03/18/14	0920	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-56	03/18/14	0927	≈ 1.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-55	03/18/14	1336	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-56	03/18/14	1345	≈ 5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-57	03/18/14	1350	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-58	03/18/14	1357	≈ 2.5'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-57	03/18/14	1112	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
F-58	03/18/14	1118	≈ 2'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-59	03/18/14	1130	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-60	03/18/14	1138	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-61	03/18/14	1142	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-62	03/18/14	1151	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C
W-63	03/18/14	1210	≈ 1'	Arsenic	Native soil from the southern portion of the site	Table 2-8C

Notes:

VOCs = Volatile Organic Compounds.

SVOCs = Semivolatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

N/A = Not Applicable.

NR = Not Reported.

Sample depths for the 2014 arsenic removal action were not recorded. Excavations, however, were completed to either 2', 3' or 5' depth. As an estimate, the sample intervals for the floor samples (designated F-) were assigned the excavation depth in that cell. Wall samples were assigned the midpoint depth between ground surface and the excavation depth.

Table 2-3
Analytical Results for Lime Waste Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-2 12/17/99 2.0' Filled Lagoon	WP-13 06/21/00 0.0' - 2.4' Filled Lagoon	SB-4 05/21/03 0.0' - 4.0' Filled Lagoon	SB-8 05/21/03 0.0' - 4.0' Filled Lagoon	SB-9 05/21/03 0.0' - 4.0' Filled Lagoon	SB-10 05/21/03 0.0' - 4.0' Filled Lagoon	SB-13 05/21/03 3.5' - 5.0' Filled Lagoon
Semivolatile Organic Compounds (µg/kg or ppb)									
Butylbenzylphthalate	NC	100,000 **	NA	NA	14 J	NA	NA	17 J	NA
4',5-Dihydroxy-7-methoxyflavone	NC	NC	"	"	120 J	"	"	220 J	"
Di-n-butylphthalate	NC	100,000 **	"	"	19 J	"	"	20 J	"
Fluoranthene (PAH)	100,000	500,000	"	"	NA	"	"	21 J	"
Phenanthrene (PAH)	100,000	500,000	"	"	"	"	"	37 J	"
Pyrene (PAH)	100,000	500,000	"	"	"	"	"	21 J	"
Pesticides (µg/kg or ppb)									
Aldrin	5.0	680.0	NA	NA	ND (25)	ND (12)	NA	ND (28)	ND (1,100)
alpha-BHC	20.0	3,400	"	"	ND (25)	3.0 J	"	ND (28)	280 J
delta-BHC	40.0	500,000	"	"	ND (25)	2.4 J	"	ND (28)	250 J
gamma-BHC (Lindane)	100.0	9,200	"	"	ND (25)	3.9 J	"	ND (28)	ND (1,100)
Chlordane	94.0	24,000	"	"	ND (120)	ND (61)	"	ND (140)	ND (5,400)
4,4'-DDD	3.3	92,000	"	"	ND (50)	ND (24)	"	5.6 J	5,400 J
4,4'-DDE	3.3	62,000	"	"	ND (50)	ND (24)	"	17 J	670 J
4,4'-DDT	3.3	47,000	"	"	ND (50)	ND (24)	"	5.8 J	21,000
Dieldrin	5.0	1,400	"	"	ND (50)	ND (24)	"	ND (56)	ND (2,100)
Endosulfan (I)	2,400	200,000	"	"	ND (50)	ND (24)	"	ND (56)	ND (2,100)
Endosulfan (II)	2,400	200,000	"	"	ND (50)	ND (24)	"	ND (56)	ND (2,100)
Endrin	14.0	89,000	"	"	ND (50)	ND (24)	"	ND (56)	ND (2,100)
Endrin Ketone	NC	NC	"	"	ND (50)	3.0 J	"	ND (56)	180 J
Heptachlor	42.0	15,000	"	"	ND (25)	ND (12)	"	ND (28)	ND (1,100)
Methoxychlor	NS	100,000 **	"	"	ND (250)	3.3 J	"	ND (280)	250 J
Herbicides (µg/kg or ppb)									
2,4-D	NC	100,000 **	NA	3.4 JBP	ND (1,200)	ND (1,200)	NA	ND (1,400)	ND (1,100)
2,4,5-TP (Silvex)	3,800	500,000	"	1.8 JBP	ND (500)	ND (490)	"	ND (560)	ND (430)
2,4,5-T	NC	100,000 **	"	2.0 JBP	ND (500)	ND (490)	"	ND (560)	ND (430)

Table 2-3
Analytical Results for Lime Waste Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-2 12/17/99 2.0' Filled Lagoon	WP-13 06/21/00 0.0' - 2.4' Filled Lagoon	SB-4 05/21/03 0.0' - 4.0' Filled Lagoon	SB-8 05/21/03 0.0' - 4.0' Filled Lagoon	SB-9 05/21/03 0.0' - 4.0' Filled Lagoon	SB-10 05/21/03 0.0' - 4.0' Filled Lagoon	SB-13 05/21/03 3.5' - 5.0' Filled Lagoon
Metals (mg/kg or ppm)									
Aluminum	NC	10,000 ●	2,950 E	4,350	NA	NA	NA	NA	NA
Arsenic ■	13.0	16.0	16.1 N	3.7 N	3.9	11.6	3.6	4.7	12.5
Beryllium ■	7.2	590.0	ND (0.30)	0.15 B	0.22 B	0.03 B	0.18 B	0.19 B	0.10 B
Cadmium ■	2.5	9.3	ND (0.21)	ND (0.042)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.09 B
Chromium ■	30.0	1,500	4.0	5.8	4.5 E	2.2 E	3.6 E	3.2 E	3.6 E
Cobalt	NC	30 **	0.76 B	0.3 B	0.77 B	0.4 B	0.76 B	0.69 B	0.39 B
Copper ■	50.0	270.0	52.3 E	3.4 N	6.0 E	143.0 E	6.2 E	7.4 E	6.8 E
Cyanide	27.0	27.0	ND (1.6)	NA	NA	NA	NA	NA	NA
Iron	NC	2,000 **	3,270 E	3,450	NA	NA	NA	NA	NA
Lead ■	63.0	1,000	33.1	5.7 N	2.6	6.3	15.0	7.0	61.8
Manganese	1,600	10,000	88.3 N	56.6 N	NA	NA	NA	NA	NA
Mercury ■	0.18	2.8	ND (0.15)	0.032 BN	ND (0.007)	ND (0.007)	ND (0.008)	ND (0.009)	ND (0.007)
Nickel ■	30.0	310.0	2.5 B	2.2	3.0 BE	1.8 BE	2.6 BE	2.5 BE	1.6 BE
Vanadium	NC	100 **	3.6 B	5.8	4.7 BE	1.3 BE	3.3 BE	4.3 BE	1.8 BE
Zinc ■	109.0	10,000	15.1 E	7.4	7.4 E	4.1 E	18.5 E	37.3 E	18.9 E
Miscellaneous Compounds (mg/kg or ppm)									
Sulfur	NC	NC	NA	352,000	18,000	22,000	22,000	10,000	24,000
Boron	NC	NC	"	10.4	1.4 B	0.44 B	1.6 B	3.2	1.3 B
Leachable pH (pH units)	≤2; ≥12.5	NC	6.70	NA	7.06	3.34	NA	7.01	7.54

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

Table 2-3
Analytical Results for Lime Waste Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes (Continued):

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-4A
Analytical Results for Sludge Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	WP-13 06/21/00 2.4' - 3.2' Filled Lagoon	SLDG-5 01/24/01 NR South Lagoon	SB-4 05/21/03 0.0' - 4.0' Filled Lagoon	SB-9 05/21/03 4.0' - 8.0' Filled Lagoon	SB-13 05/21/03 5.0' - 6.0' Filled Lagoon	SB-14 05/21/03 4.0' - 7.0' Filled Lagoon
Semivolatile Organic Compounds (µg/kg or ppb)								
Naphthalene (PAH)	12,000	500,000	NA	NA	10 J	NA	NA	NA
Pesticides (µg/kg or ppb)								
Aldrin	5.0	680.0	NA	NA	ND (19)	NA	NA	ND (14)
alpha-BHC	20.0	3,400	"	"	ND (19)	"	"	ND (14)
delta-BHC	40.0	500,000	"	"	ND (19)	"	"	ND (14)
gamma-BHC (Lindane)	100.0	9,200	"	"	ND (19)	"	"	ND (14)
Chlordane	94.0	24,000	"	"	ND (94)	"	"	ND (68)
4,4'-DDD	3.3	92,000	"	"	ND (38)	"	"	3.8 J
4,4'-DDE	3.3	62,000	"	"	ND (38)	"	"	35.0
4,4'-DDT	3.3	47,000	"	"	ND (38)	"	"	ND (27)
Dieldrin	5.0	1,400	"	"	ND (38)	"	"	ND (27)
Endosulfan (I)	2,400	200,000	"	"	ND (38)	"	"	ND (27)
Endosulfan (II)	2,400	200,000	"	"	ND (38)	"	"	ND (27)
Endrin	14.0	89,000	"	"	ND (38)	"	"	ND (27)
Endrin Ketone	NC	NC	"	"	ND (38)	"	"	ND (27)
Heptachlor	42.0	15,000	"	"	ND (19)	"	"	ND (14)
Methoxychlor	NS	100,000 **	"	"	ND (190)	"	"	ND (140)
Herbicides (µg/kg or ppb)								
2,4-D	NC	100,000 **	9.0 JB	NA	ND (920)	NA	ND (1,200)	ND (1,400)
2,4,5-TP (Silvex)	3,800	500,000	1.1 JBP	"	ND (370)	"	ND (480)	ND (550)
2,4,5-T	NC	100,000 **	3.1 JBP	"	ND (370)	"	ND (480)	ND (550)
Metals (mg/kg or ppm)								
Aluminum	NC	10,000 ●	1,960	7,300	NA	NA	NA	NA
Arsenic ■	13.0	16.0	3.3 N	ND (3)	3.7	2.3	4.5	3.5
Beryllium ■	7.2	590.0	0.089 B	0.51	0.34 B	0.29 B	0.24 B	0.57 B
Cadmium ■	2.5	9.3	ND (0.045)	0.81	ND (0.04)	ND (0.04)	ND (0.05)	ND (0.05)

Table 2-4A
Analytical Results for Sludge Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	WP-13 06/21/00 2.4' - 3.2' Filled Lagoon	SLDG-5 01/24/01 NR South Lagoon	SB-4 05/21/03 0.0' - 4.0' Filled Lagoon	SB-9 05/21/03 4.0' - 8.0' Filled Lagoon	SB-13 05/21/03 5.0' - 6.0' Filled Lagoon	SB-14 05/21/03 4.0' - 7.0' Filled Lagoon
Date Sampled								
Sample Depth								
Sample Location								
Metals (continued)								
Chromium ■	30.0	1,500	2.4	19.0	11.0 E	9.3 E	7.4 E	21.0
Cobalt	NC	30 **	ND (0.1)	ND (2)	5.9 B	4.9 B	3.7 B	4.2 B
Copper ■	50.0	270.0	2.8 N	34.0	15.5 E	13.0 E	11.6 E	17.3
Iron	NC	2,000 **	1,770	12,000	NA	NA	NA	NA
Lead ■	63.0	1,000	3.7 N	ND (10)	3.6	3.0	6.6	6.4
Manganese	1,600	10,000	146 N	450.0	NA	NA	NA	NA
Mercury ■	0.18	2.8	0.031 BN	ND (0.202)	ND (0.006)	0.024	0.124	ND (0.008)
Nickel ■	30.0	310.0	1.9	8.9	10.6 E	9.5 E	8.0 E	11.7
Vanadium	NC	100 **	3.3	20.0	18.4 E	16.8 E	12.6 E	18.8
Zinc ■	109.0	10,000	7.0	74.0	25.2 E	23.5 E	24.8 E	39.6
Miscellaneous Compounds (mg/kg or ppm)								
Sulfur	NC	NC	551,000	NA	8,200	7,700	23,000	22,000
Boron	NC	NC	14.6	"	2.5	4.5	3.0	13.5
Leachable pH (pH units)	≤2; ≥12.5	NC	NA	"	9.65	NA	NA	NA

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

Table 2-4A
Analytical Results for Sludge Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes (Continued):

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-4B
Analytical Results for Sludge Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	A(-2) 08/07/13 4.0' South Area	A1 08/05/13 4.0' South Area	B(-2) 08/07/13 4.0' South Area	B(-1) 08/06/13 4.0' South Area	C(-1) 08/06/13 3.0' South Area
Metals (mg/kg or ppm)							
Arsenic ■	13.0	16.0	4.3	4.7	4.4	3.9	12.8
Barium	350.0	400.0	190.0	NA	93.1	90.7	201.0
Cadmium ■	2.5	9.3	0.11 J	"	0.27	0.18 J	0.94
Chromium ■	30.0	1,500	13.0	"	7.3	32.8	8.3
Lead ■	63.0	1,000	5.4	"	3.8	2.5	90.0
Mercury ■	0.18	2.8	0.030	"	0.019 J	ND (0.024)	0.12
Selenium ■	3.9	1,500	ND (5.5)	"	ND (4.4)	ND (4.4)	0.69 J
Silver ■	2.0	1,500	ND (0.68)	"	ND (0.55)	ND (0.56)	1.8

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

■ = Environmental Protection Agency priority pollutant metal.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

NA = Not analyzed.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-5A
Analytical Results for Miscellaneous Fill Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	A(-2) 08/07/13 2.0' Arsenic Area	A0 08/05/13 2.3' Arsenic Area	A2 08/05/13 1.2' South Area	B(-2) 08/07/13 2.0' South Area	B(-1) 08/06/13 2.0' South Area	C(-2) 08/07/13 2.0' South Area	D7 07/15/13 2.0' South Area
Arsenic ■	13.0	16.0	4.9	4.5	6.5	5.9	4.7	4.2	ND (2.2)

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

■ = Environmental Protection Agency priority pollutant metal.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-5B
Analytical Results for Miscellaneous Fill Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	B(-2) 08/07/13 5.5' Arsenic Area	G(-1) 08/06/13 2.2' Arsenic Area	G1 08/07/13 1.6' Arsenic Area	B-5R 08/06/13 6.0' Arsenic Area
Metals (mg/kg or ppm)						
Arsenic ■	13.0	16.0	3.5	6.4	12.2	9.8
Barium	350.0	400.0	68.2	74.6	122.0	100.0
Cadmium ■	2.5	9.3	0.056 J	0.043 J	0.33	0.59
Chromium ■	30.0	1,500	12.0	5.4	7.8	18.4
Lead ■	63.0	1,000	3.1	32.8	34.4	8.4
Mercury ■	0.18	2.8	ND (0.023)	0.045	0.039	ND (0.022)
Selenium ■	3.9	1,500	ND (4.3)	ND (5.0)	1.2 J	ND (4.1)
Silver ■	2.0	1,500	ND (0.53)	ND (0.63)	ND (0.66)	ND (0.52)

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

■ = Environmental Protection Agency priority pollutant metal.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-6A
Analytical Results for Surface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-16 08/23/01 Surface ** Chip Area	S-17 08/23/01 Surface ** Chip Area	S-22 08/22/01 Surface ** Chip Area	S-25 08/22/01 Surface ** Chip Area	S-26 08/22/01 Surface ** Chip Area	S-27 08/23/01 Surface ** Chip Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	16.0	7.4	17.0	4.9	9.9	6.8

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-28 08/22/01 Surface ** Chip Area	S-29 08/23/01 Surface ** Chip Area	S-30 08/23/01 Surface ** Chip Area	S-31 08/23/01 Surface ** Chip Area	S-32 08/23/01 Surface ** Chip Area	S-33 08/23/01 Surface ** Chip Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	4.6	2.7	7.4	3.0	3.8	7.1

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-34 08/23/01 Surface ** Chip Area	A2 05/07/13 0.0' - 0.17' Arsenic Area	A7 05/07/13 0.0' - 0.17' Arsenic Area	B5 05/07/13 0.0' - 0.17' Arsenic Area	B7 05/07/13 0.0' - 0.17' Arsenic Area	D4 05/07/13 0.0' - 0.17' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.4	6.7	14.8	7.9	15.2	11.9

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	D5 05/07/13 0.0' - 0.17' Arsenic Area	D6 05/07/13 0.0' - 0.17' Arsenic Area	D7 05/07/13 0.0' - 0.17' Arsenic Area	E3 05/14/13 0.0' - 0.17' Arsenic Area	E5 05/14/13 0.0' - 0.17' Arsenic Area	E6 05/14/13 0.0' - 0.17' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.9	5.2	5.4	12.5	3.8	4.0

Table 2-6A
Analytical Results for Surface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	E7 05/14/13 0.0' - 0.17' Arsenic Area	F2 05/14/13 0.0' - 0.17' Arsenic Area	F3 05/14/13 0.0' - 0.17' Arsenic Area	F4 05/14/13 0.0' - 0.17' Arsenic Area	F5 05/14/13 0.0' - 0.17' Arsenic Area	F6 05/14/13 0.0' - 0.17' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	4.5	15.0	5.3	4.9	7.6	3.4

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-2 07/17/13 0.0' - 0.17' Arsenic Area	SB-3 07/17/13 0.0' - 0.17' Arsenic Area	SB-5 07/17/13 0.0' - 0.17' Arsenic Area	SB-6 07/17/13 0.0' - 0.17' Arsenic Area		
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	3.6	4.5	7.4	4.4		

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = The sample was described as a surface soil sample but the exact sample interval was not specified.

■ = Environmental Protection Agency priority pollutant metal.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objective for arsenic.

Table 2-6B
Analytical Results for Surface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SS-3 06/13/12 Surface Near Road	SS-6 06/13/12 Surface Office Bldg.	SS-13 06/13/12 Surface Western Bldg.	SS-29 06/13/12 Surface Near Chip Area	SS-40 06/13/12 Surface NE Woods	SS-45 06/13/12 Surface NW Corner
Semivolatile Organic Compounds (µg/kg or ppb)								
Acenaphthylene (PAH)	100,000	500,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Anthracene (PAH)	100,000	500,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Benzo[a]anthracene (PAH)	1,000	5,600	ND (350)	ND (350)	86 J	ND (390)	ND (440)	ND (430)
Benzo[a]pyrene (PAH)	1,000	1,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Benzo[b]fluoranthene (PAH)	1,000	5,600	ND (350)	ND (350)	97 J	ND (390)	ND (440)	130 J
Benzo[g,h,i]perylene (PAH)	100,000	500,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Benzo[k]fluoranthene (PAH)	800.0	56,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Chrysene (PAH)	1,000	56,000	ND (350)	ND (350)	110 J	ND (390)	ND (440)	87 J
Dibenzo[a,h]anthracene (PAH)	330.0	560.0	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Di-n-butylphthalate	NC	100,000 **	ND (350)	ND (350)	88 J	ND (390)	ND (440)	ND (430)
Fluoranthene (PAH)	100,000	500,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Hexachlorobenzene	330.0	6,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Indeno[1,2,3-cd]pyrene (PAH)	500.0	5,600	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Pentachlorophenol	800.0	6,700	ND (710)	ND (720)	ND (720)	ND (790)	ND (900)	ND (860)
Phenanthrene (PAH)	100,000	500,000	ND (350)	ND (350)	ND (360)	ND (390)	ND (440)	ND (430)
Pyrene (PAH)	100,000	500,000	ND (350)	ND (350)	150 J	ND (390)	ND (440)	140 J
Pesticides (µg/kg or ppb)								
Aldrin	5.0	680.0	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
alpha-BHC	20.0	3,400	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
beta-BHC	36.0	3,000	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
delta-BHC	40.0	500,000	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
gamma-BHC (Lindane)	100.0	9,200	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
Chlordane	94.0	24,000	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
4,4'-DDD	3.3	92,000	ND (3.6)	ND (3.6)	280.0	ND (3.9)	ND (4.4)	ND (4.2)
4,4'-DDE	3.3	62,000	ND (3.6)	ND (3.6)	120.0	ND (3.9)	ND (4.4)	4 J
4,4'-DDT	3.3	47,000	ND (3.6)	ND (3.6)	100.0	ND (3.9)	ND (4.4)	3 PJ

Table 2-6B
Analytical Results for Surface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SS-3 06/13/12 Surface Near Road	SS-6 06/13/12 Surface Office Bldg.	SS-13 06/13/12 Surface Western Bldg.	SS-29 06/13/12 Surface Near Chip Area	SS-40 06/13/12 Surface NE Woods	SS-45 06/13/12 Surface NW Corner
Pesticides (continued)								
Dieldrin	5.0	1,400	ND (3.6)	ND (3.6)	ND (74)	ND (3.9)	ND (4.4)	ND (4.2)
Endosulfan (I)	2,400	200,000	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
Endosulfan (II)	2,400	200,000	ND (3.6)	ND (3.6)	ND (74)	ND (3.9)	ND (4.4)	ND (4.2)
Endrin	14.0	89,000	ND (3.6)	ND (3.6)	ND (74)	ND (3.9)	ND (4.4)	ND (4.2)
Endrin Ketone	NC	NC	ND (3.6)	ND (3.6)	ND (74)	ND (3.9)	ND (4.4)	ND (4.2)
Heptachlor	42.0	15,000	ND (1.8)	ND (1.9)	ND (38)	ND (2.0)	ND (2.3)	ND (2.2)
Methoxychlor	NS	100,000 **	ND (18)	ND (19)	ND (380)	ND (20)	ND (23)	ND (22)
Metals (mg/kg or ppm)								
Aluminum	NC	10,000 •	1,530	1,630	2,330	11,000	10,600	10,300
Antimony ■	NC	12 •	ND (0.35)	ND (0.25)	ND (0.34)	ND (0.44)	2.9	ND (0.41)
Arsenic ■	13.0	16.0	4.6	5.6	15.9	6.2	4.9	5.9
Barium	350.0	400.0	8.5 B	9.5	17.4	71.9	96.1	103.0
Beryllium ■	7.2	590.0	0.14 B	0.14 B	0.16 B	0.33	0.25 B	0.35
Cadmium ■	2.5	9.3	ND (0.014)	ND (0.0099)	ND (0.013)	0.29 B	0.15 B	0.20 B
Chromium ■	30.0	1,500	2.6	2.8	4.1	12.1	13.4	12.3
Cobalt	NC	30 **	1.6 B	1.7	1.4 B	6.3	4.4	5.0
Copper ■	50.0	270.0	5.5	5.4	27.2	31.1	16.8	21.2
Iron	NC	2,000 **	6,080	6,530	5,470	143,000	13,200	14,800
Lead ■	63.0	1,000	16.0	14.9	25.5	39.4	572.0	29.7
Manganese	1,600	10,000	498.0	486.0	385.0	828.0	281.0	568.0
Mercury ■	0.18	2.8	0.022 B	0.010 B	0.10	0.042 B	0.11	0.09
Nickel ■	30.0	310.0	2.8	2.9	3.0	11.7	10.8	12.8
Selenium ■	3.9	1,500	1.1 B	1.7	2.7	ND (0.73)	ND (0.67)	ND (0.69)
Thallium	NC	5 •	2.6	2.7	1.7	0.92 B	ND (0.23)	0.57 B
Vanadium	NC	100 **	4.0	4.5	4.9	19.3	19.6	21.6
Zinc ■	109.0	10,000	29.2	25.6	56.6	102.0	95.6	73.6

Table 2-6B
Analytical Results for Surface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SS-3 06/13/12 Surface Near Road	SS-6 06/13/12 Surface Office Bldg.	SS-13 06/13/12 Surface Western Bldg.	SS-29 06/13/12 Surface Near Chip Area	SS-40 06/13/12 Surface NE Woods	SS-45 06/13/12 Surface NW Corner
Date Sampled								
Sample Depth								
Sample Location								
Miscellaneous Compounds (mg/kg or ppm)								
Sulfur	NC	NC	3,200	2,650	1,770	158.0	218.0	188.0
Leachable pH (pH units)	≤2; ≥12.5	NC	8.3	8.3	8.2	7.2	6.9	6.7

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Purple shaded values exceed the Commissioner's Policy CP-51 Protection of Ecological Resources Soil Cleanup Objectives.

Table 2-7A
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	WP-6 06/21/00 5.7' - 8.0' Filled Lagoon	WP-13 06/21/00 3.2' - 4.2' Filled Lagoon	S-4B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-5B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-6B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-8A 08/21/01 2.0' Eastern Bldg.	S-8B 08/21/01 4.0' Eastern Bldg.
Semivolatile Organic Compounds (µg/kg or ppb)									
Acenaphthene (PAH)	20,000	500,000	ND (370)	180 J	ND (660)	ND (660)	ND (660)	NA	NA
Anthracene (PAH)	100,000	500,000	ND (370)	190 J	ND (660)	ND (330)	ND (660)	"	"
Benzo[a]anthracene (PAH)	1,000	5,600	ND (370)	140 J	ND (660)	780.0	ND (660)	"	"
Benzo[a]pyrene (PAH)	1,000	1,000	ND (370)	93 J	ND (660)	520.0	ND (660)	"	"
Benzo[b]fluoranthene (PAH)	1,000	5,600	ND (370)	ND (540)	ND (660)	810.0	ND (660)	"	"
Benzo[k]fluoranthene (PAH)	800.0	56,000	ND (370)	62 J	ND (660)	ND (330)	ND (660)	"	"
Bis[2-ethylhexyl]phthalate	NC	50,000 **	78 J	3,100	ND (660)	ND (330)	ND (660)	"	"
Carbazole	NC	NC	ND (370)	150 J	ND (660)	ND (330)	ND (660)	"	"
Chrysene (PAH)	1,000	56,000	ND (370)	150 J	ND (660)	1,100	ND (660)	"	"
Dibenzofuran	7,000	350,000	ND (370)	120 J	ND (660)	ND (660)	ND (660)	"	"
Fluoranthene (PAH)	100,000	500,000	ND (370)	330 J	ND (660)	1,400	ND (660)	"	"
Fluorene	30,000	500,000	ND (370)	200 J	ND (660)	ND (660)	ND (660)	"	"
Indeno[1,2,3-cd]pyrene (PAH)	500.0	5,600	ND (370)	ND (540)	ND (660)	360.0	ND (660)	"	"
2-Methylnaphthalene	NC	410 **	ND (370)	120 J	ND (660)	ND (660)	ND (660)	"	"
Naphthalene (PAH)	12,000	500,000	ND (370)	170 J	ND (660)	ND (660)	ND (660)	"	"
Phenanthrene (PAH)	100,000	500,000	ND (370)	800.0	700.0	1,900	ND (660)	"	"
Pyrene (PAH)	100,000	500,000	ND (370)	390 J	860.0	2,200	ND (660)	"	"
Pesticides (µg/kg or ppb)									
Aldrin	5.0	680.0	NA	NA	ND (50)	ND (50)	270.0	ND (2)	ND (1)
alpha-BHC	20.0	3,400	"	"	ND (50)	1,200	1,200	ND (2)	ND (1)
beta-BHC	36.0	3,000	"	"	ND (50)	170.0	ND (50)	ND (2)	ND (1)
delta-BHC	40.0	500,000	"	"	ND (50)	ND (50)	ND (50)	ND (2)	ND (1)
gamma-BHC (Lindane)	100.0	9,200	"	"	ND (50)	ND (50)	ND (50)	ND (2)	ND (1)
Chlordane	94.0	24,000	"	"	ND (100)	ND (100)	ND (100)	ND (40)	ND (20)
4,4'-DDD	3.3	92,000	"	"	ND (100)	ND (100)	ND (100)	85.0	ND (6)
4,4'-DDE	3.3	62,000	"	"	ND (100)	ND (100)	ND (100)	ND (4)	ND (2)

Table 2-7A
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	WP-6 06/21/00 5.7' - 8.0' Filled Lagoon	WP-13 06/21/00 3.2' - 4.2' Filled Lagoon	S-4B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-5B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-6B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-8A 08/21/01 2.0' Eastern Bldg.	S-8B 08/21/01 4.0' Eastern Bldg.
Pesticides (Continued)									
4,4'-DDT	3.3	47,000	NA	NA	ND (100)	400.0	230.0	300.0	16.0
Dieldrin	5.0	1,400	"	"	ND (100)	ND (100)	ND (100)	13.0	ND (2)
Endosulfan (I)	2,400	200,000	"	"	ND (50)	ND (50)	ND (50)	ND (4)	ND (2)
Endosulfan (II)	2,400	200,000	"	"	ND (100)	ND (100)	ND (100)	ND (4)	ND (2)
Endrin	14.0	89,000	"	"	ND (100)	ND (100)	ND (100)	11.0	ND (2)
Endrin Ketone	NC	NC	"	"	ND (100)	ND (100)	ND (100)	NA	NA
Heptachlor	42.0	15,000	"	"	ND (50)	ND (50)	ND (50)	ND (2)	ND (1)
Methoxychlor	NS	100,000 **	"	"	ND (500)	ND (500)	ND (500)	ND (40)	ND (20)
Herbicides (µg/kg or ppb)									
2,4-D	NC	100,000 **	47 BP	6.4 JBP	ND (100)	ND (100)	ND (100)	ND (1,000)	ND (1,000)
2,4,5-TP (Silvex)	3,800	500,000	10 BP	6.8 B	ND (10)	ND (10)	ND (10)	ND (1,000)	ND (1,000)
2,4,5-T	NC	100,000 **	16 BP	16 BP	NA	NA	NA	ND (1,000)	ND (1,000)
Metals (mg/kg or ppm)									
Aluminum	NC	10,000 ●	4,240	8,810	6,500	6,000	6,100	4,500	7,700
Arsenic ■	13.0	16.0	2.6 N	1.2 BN	4.7	8.2	78.0	8.2	16.0
Beryllium ■	7.2	590.0	0.19 B	0.4 B	0.23	ND (0.2)	0.22	0.26	0.49
Cadmium ■	2.5	9.3	ND (0.031)	ND (0.044)	1.4	0.4	2.3	ND (0.2)	ND (0.2)
Chromium ■	30.0	1,500	6.4	9.2	8.7	1.8	8.8	5.6	12.0
Cobalt	NC	30 **	4.0	3.4	3.9	1.1	4.6	3.2	5.5
Copper ■	50.0	270.0	19.1 N	8.9 N	16.0	40.0	39.0	40.0	51.0
Iron	NC	2,000 **	9,690	8,780	5,900	830.0	9,700	9,000	17,000
Lead ■	63.0	1,000	2.9 N	3.5 N	7.0	25.0	9.4	9.1	43.0
Manganese	1,600	10,000	610 N	269 N	80.0	20.0	270.0	870.0	820.0
Mercury ■	0.18	2.8	0.032 BN	ND (0.018)	0.34	0.34	0.25	ND (0.1)	ND (0.1)
Nickel ■	30.0	310.0	8.4	8.0	9.1	2.6	10.0	5.7	12.0
Vanadium	NC	100 **	10.3	13.3	13.0	5.9	9.1	11.0	19.0
Zinc ■	109.0	10,000	21.6	30.8	41.0	230.0	110.0	69.0	66.0

Table 2-7A
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	WP-6 06/21/00 5.7' - 8.0' Filled Lagoon	WP-13 06/21/00 3.2' - 4.2' Filled Lagoon	S-4B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-5B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-6B 12/13/00 3.0' - 4.0' Prod. Bldg.	S-8A 08/21/01 2.0' Eastern Bldg.	S-8B 08/21/01 4.0' Eastern Bldg.
Date Sampled									
Sample Depth									
Sample Location									
Miscellaneous Compounds (mg/kg or ppm)									
Sulfur	NC	NC	27,400	198,000	NA	NA	NA	NA	NA
Boron	NC	NC	17.8	25.7	"	"	"	"	"
Leachable pH (pH units)	≤2; ≥12.5	NC	8.6	12.0	"	"	"	"	"
TPH	NC	NC	NA	131.0	"	"	"	"	"

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-7B
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-11 08/22/01 Chip Area	S-12 08/22/01 Chip Area	S-13 08/22/01 Chip Area	S-15 08/22/01 Chip Area	S-16 08/23/01 Chip Area	S-17 08/23/01 Chip Area	S-18 08/22/01 Chip Area	S-19 08/22/01 Chip Area
Date Sampled										
Sample Location										
Sample Depth										
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	4.5	3.5	4.5	Excavated	3.1	2.1	4.8	3.3
4.0'	13.0	16.0	3.3	10.0	3.9	4.8	3.5	2.9	3.2	5.5

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-20 08/22/01 Chip Area	S-21 08/22/01 Chip Area	S-22 08/22/01 Chip Area	S-23 08/23/01 Chip Area	S-24 08/23/01 Chip Area	S-25 08/22/01 Chip Area	S-26 08/22/01 Chip Area	S-27 08/23/01 Chip Area
Date Sampled										
Sample Location										
Sample Depth										
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	4.7	3.5	3.3	3.9	6.5	4.0	5.2	6.9
4.0'	13.0	16.0	2.9	3.8	2.7	3.1	3.0	3.0	4.2	4.5

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	S-28 08/22/01 Chip Area	S-29 08/23/01 Chip Area	S-30 08/23/01 Chip Area	S-31 08/23/01 Chip Area	S-32 08/23/01 Chip Area	S-33 08/23/01 Chip Area	S-34 08/23/01 Chip Area	
Date Sampled										
Sample Location										
Sample Depth										
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	4.2	4.3	4.2	NA	3.6	2.6	2.4	
4.0'	13.0	16.0	5.4	5.4	4.0	2.6	4.0	5.2	6.3	

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objective for arsenic.

Table 2-7C
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-1 05/20/03 0.0' - 4.0' Near Road	SB-2 05/20/03 0.0' - 4.0' Near Road	SB-3 05/20/03 9.0' - 9.8' Gravel Rd.	SB-5 05/21/03 4.0' - 5.0' Near Ditch	SB-6 05/21/03 0.0' - 4.0' Chip Area	SB-7 05/20/03 0.0' - 4.0' Near Chip Area	SB-10 05/21/03 4.0' - 8.0' Filled Lagoon
Semivolatile Organic Compounds (µg/kg or ppb)									
Acenaphthene (PAH)	20,000	500,000	NA	NA	NA	NA	NA	NA	ND (360)
Anthracene (PAH)	100,000	500,000	"	"	"	"	"	"	ND (360)
Benzo[a]anthracene (PAH)	1,000	5,600	"	"	"	"	"	"	ND (360)
Benzo[a]pyrene (PAH)	1,000	1,000	"	"	"	"	"	"	ND (360)
Benzo[b]fluoranthene (PAH)	1,000	5,600	"	"	"	"	"	"	ND (360)
Benzo[k]fluoranthene (PAH)	800.0	56,000	"	"	"	"	"	"	ND (360)
Bis[2-ethylhexyl]phthalate	NC	50,000 **	"	"	"	"	"	"	ND (360)
Carbazole	NC	NC	"	"	"	"	"	"	ND (360)
Chrysene (PAH)	1,000	56,000	"	"	"	"	"	"	ND (360)
Dibenzofuran	7,000	350,000	"	"	"	"	"	"	ND (360)
Fluoranthene (PAH)	100,000	500,000	"	"	"	"	"	"	ND (360)
Fluorene	30,000	500,000	"	"	"	"	"	"	ND (360)
Indeno[1,2,3-cd]pyrene (PAH)	500.0	5,600	"	"	"	"	"	"	ND (360)
2-Methylnaphthalene	NC	410 **	"	"	"	"	"	"	ND (360)
Naphthalene (PAH)	12,000	500,000	"	"	"	"	"	"	ND (360)
Phenanthrene (PAH)	100,000	500,000	"	"	"	"	"	"	ND (360)
Pyrene (PAH)	100,000	500,000	"	"	"	"	"	"	ND (360)
Pesticides (µg/kg or ppb)									
Aldrin	5.0	680.0	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
alpha-BHC	20.0	3,400	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
beta-BHC	36.0	3,000	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
delta-BHC	40.0	500,000	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
gamma-BHC (Lindane)	100.0	9,200	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
Chlordane	94.0	24,000	ND (46)	ND (49)	ND (43)	ND (44)	ND (48)	ND (46)	ND (43)
4,4'-DDD	3.3	92,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
4,4'-DDE	3.3	62,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)

Table 2-7C
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-1 05/20/03 0.0' - 4.0' Near Road	SB-2 05/20/03 0.0' - 4.0' Near Road	SB-3 05/20/03 9.0' - 9.8' Gravel Rd.	SB-5 05/21/03 4.0' - 5.0' Near Ditch	SB-6 05/21/03 0.0' - 4.0' Chip Area	SB-7 05/20/03 0.0' - 4.0' Near Chip Area	SB-10 05/21/03 4.0' - 8.0' Filled Lagoon
Pesticides (Continued)									
4,4'-DDT	3.3	47,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Dieldrin	5.0	1,400	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Endosulfan (I)	2,400	200,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Endosulfan (II)	2,400	200,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Endrin	14.0	89,000	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Endrin Ketone	NC	NC	ND (18)	ND (20)	ND (17)	ND (17)	ND (19)	ND (18)	ND (17)
Heptachlor	42.0	15,000	ND (9.2)	ND (9.8)	ND (8.5)	ND (8.7)	ND (9.6)	ND (9.2)	ND (8.6)
Methoxychlor	NS	100,000 **	ND (92)	ND (98)	ND (85)	ND (87)	ND (96)	ND (92)	ND (86)
Herbicides (µg/kg or ppb)									
2,4-D	NC	100,000 **	ND (930)	ND (980)	ND (880)	ND (890)	ND (960)	ND (910)	ND (860)
2,4,5-TP (Silvex)	3,800	500,000	ND (370)	ND (390)	ND (350)	ND (360)	ND (380)	ND (360)	ND (340)
2,4,5-T	NC	100,000 **	ND (370)	ND (390)	ND (350)	ND (360)	ND (380)	ND (360)	ND (340)
Metals (mg/kg or ppm)									
Aluminum	NC	10,000 ●	NA	NA	NA	NA	NA	NA	NA
Arsenic ■	13.0	16.0	1.9	8.1	4.4	2.3	2.9	2.2	3.0
Beryllium ■	7.2	590.0	0.25 B	0.34 B	0.44 B	0.27 B	0.42 B	0.21 B	0.2 B
Cadmium ■	2.5	9.3	ND (0.03)	ND (0.04)	ND (0.03)	ND (0.03)	ND (0.04)	ND (0.03)	ND (0.03)
Chromium ■	30.0	1,500	8.2 E	11.0 E	12.5 E	8.7 E	13.5 E	7.1 E	7.2 E
Cobalt	NC	30 **	3.6 B	5.9 B	8.2	5.8	5.5 B	4.9 B	5.2 B
Copper ■	50.0	270.0	19.2 E	23.9 E	7.4 E	10.8 E	17.8 E	17.0 E	21.5 E
Iron	NC	2,000 **	NA	NA	NA	NA	NA	NA	NA
Lead ■	63.0	1,000	3.0	8.6	4.3	2.8	4.3	2.5	3.2
Manganese	1,600	10,000	NA	NA	NA	NA	NA	NA	NA
Mercury ■	0.18	2.8	0.06	0.046	ND (0.005)	ND (0.005)	0.019	ND (0.005)	ND (0.005)
Nickel ■	30.0	310.0	9.5 E	16.7 E	17.3 E	11.6 E	13.4 E	9.6 E	10.5 E
Vanadium	NC	100 **	14.3 E	16.7 E	19.0 E	14.6 E	22.6 E	12.4 E	12.2 E
Zinc ■	109.0	10,000	21.5 E	32.1 E	35.9 E	26.5 E	27.3 E	24.4 E	29.2 E

Table 2-7C
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-1 05/20/03 0.0' - 4.0' Near Road	SB-2 05/20/03 0.0' - 4.0' Near Road	SB-3 05/20/03 9.0' - 9.8' Gravel Rd.	SB-5 05/21/03 4.0' - 5.0' Near Ditch	SB-6 05/21/03 0.0' - 4.0' Chip Area	SB-7 05/20/03 0.0' - 4.0' Near Chip Area	SB-10 05/21/03 4.0' - 8.0' Filled Lagoon
Date Sampled									
Sample Depth									
Sample Location									
Miscellaneous Compounds (mg/kg or ppm)									
Sulfur	NC	NC	NA	NA	2,600	NA	NA	NA	2,200
Boron	NC	NC	2.9	2.5	8.6	4.4	2.4	3.6	3.7
Leachable pH (pH units)	≤2; ≥12.5	NC	6.32	7.20	7.12	7.82	7.68	8.26	8.10

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-7D
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-12 05/21/03 0.0' - 4.0' Near Chip Area	B-1 06/14/12 8.0' - 10.0' Chip Area	B-2 06/14/12 8.0' - 10.0' Chip Area	B-3 06/14/12 8.0' - 10.0' Chip Area	B-4 06/15/12 7.0' - 9.0' Spill Area	B-9 06/15/12 5.0' - 7.0' Office Bldg.	
Semivolatile Organic Compounds (µg/kg or ppb)									
Acenaphthene (PAH)	20,000	500,000	NA	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Anthracene (PAH)	100,000	500,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Benzo[a]anthracene (PAH)	1,000	5,600	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Benzo[a]pyrene (PAH)	1,000	1,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Benzo[b]fluoranthene (PAH)	1,000	5,600	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Benzo[k]fluoranthene (PAH)	800.0	56,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Bis[2-ethylhexyl]phthalate	NC	50,000 **	"	110 J	ND (350)	ND (350)	ND (370)	ND (370)	
Carbazole	NC	NC	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Chrysene (PAH)	1,000	56,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Dibenzofuran	7,000	350,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Fluoranthene (PAH)	100,000	500,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Fluorene	30,000	500,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Indeno[1,2,3-cd]pyrene (PAH)	500.0	5,600	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
2-Methylnaphthalene	NC	410 **	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Naphthalene (PAH)	12,000	500,000	"	ND (360)	ND (350)	ND (350)	150 J	ND (370)	
Phenanthrene (PAH)	100,000	500,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Pyrene (PAH)	100,000	500,000	"	ND (360)	ND (350)	ND (350)	ND (370)	ND (370)	
Pesticides (µg/kg or ppb)									
Aldrin	5.0	680.0	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
alpha-BHC	20.0	3,400	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
beta-BHC	36.0	3,000	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
delta-BHC	40.0	500,000	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
gamma-BHC (Lindane)	100.0	9,200	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
Chlordane	94.0	24,000	ND (45)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
4,4'-DDD	3.3	92,000	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
4,4'-DDE	3.3	62,000	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	

Table 2-7D
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-12 05/21/03 0.0' - 4.0' Near Chip Area	B-1 06/14/12 8.0' - 10.0' Chip Area	B-2 06/14/12 8.0' - 10.0' Chip Area	B-3 06/14/12 8.0' - 10.0' Chip Area	B-4 06/15/12 7.0' - 9.0' Spill Area	B-9 06/15/12 5.0' - 7.0' Office Bldg.	
Pesticides (Continued)									
4,4'-DDT	3.3	47,000	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
Dieldrin	5.0	1,400	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
Endosulfan (I)	2,400	200,000	ND (18)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
Endosulfan (II)	2,400	200,000	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
Endrin	14.0	89,000	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
Endrin Ketone	NC	NC	ND (18)	ND (3.6)	ND (3.5)	ND (3.6)	ND (3.8)	ND (3.7)	
Heptachlor	42.0	15,000	ND (9.0)	ND (1.9)	ND (1.8)	ND (1.9)	ND (2.0)	ND (1.9)	
Methoxychlor	NS	100,000 **	ND (90)	ND (19)	ND (18)	ND (19)	ND (20)	ND (19)	
Herbicides (µg/kg or ppb)									
2,4-D	NC	100,000 **	ND (900)	NA	NA	NA	NA	NA	
2,4,5-TP (Silvex)	3,800	500,000	ND (360)	"	"	"	"	"	
2,4,5-T	NC	100,000 **	ND (360)	"	"	"	"	"	
Metals (mg/kg or ppm)									
Aluminum	NC	10,000 ●	NA	6,280	6,670	6,190	6,600	7,830	
Antimony ■	NC	12 ●	1.1 BN	ND (0.40)	0.55 B	ND (0.35)	ND (0.33)	ND (0.39)	
Arsenic ■	13.0	16.0	2.1	3.6	3.0	2.1	1.7	2.3	
Barium	350.0	400.0	131 E	92.6	89.0	94.2	41.3	77.0	
Beryllium ■	7.2	590.0	0.46 B	0.20 B	0.22 B	0.20 B	0.22	0.28	
Cadmium ■	2.5	9.3	ND (0.03)	0.53	0.56	0.50	0.57	0.63	
Chromium ■	30.0	1,500	11.6 E	9.6	9.9	8.5	7.7	11.0	
Cobalt	NC	30 **	4.1 B	6.6	6.5	6.0	6.9	7.6	
Copper ■	50.0	270.0	21.9 E	20.0	13.9	14.3	12.0	10.9	
Iron	NC	2,000 **	NA	14,100	14,500	13,000	11,300	15,700	
Lead ■	63.0	1,000	4.1	3.7	3.4	2.9	3.2	4.1	
Manganese	1,600	10,000	NA	696.0	716.0	647.0	190.0	708.0	
Mercury ■	0.18	2.8	0.021	ND (0.0024)	ND (0.0025)	ND (0.0024)	0.0059 B	0.0029 B	

Table 2-7D
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-12 05/21/03 0.0' - 4.0' Near Chip Area	B-1 06/14/12 8.0' - 10.0' Chip Area	B-2 06/14/12 8.0' - 10.0' Chip Area	B-3 06/14/12 8.0' - 10.0' Chip Area	B-4 06/15/12 7.0' - 9.0' Spill Area	B-9 06/15/12 5.0' - 7.0' Office Bldg.	
Metals (continued)									
Nickel ■	30.0	310.0	10.1 E	13.0	13.5	12.2	12.7	15.7	
Thallium	NC	5 ●	ND (0.59)	0.60 B	1.1	0.36 B	0.39 B	0.94 B	
Vanadium	NC	100 **	19.4 E	14.5	14.6	13.0	13.0	15.1	
Zinc ■	109.0	10,000	29.7 E	29.6	30.4	28.2	74.4	33.8	
Miscellaneous Compounds (mg/kg or ppm)									
Sulfur	NC	NC	NA	136.0	103.0	105.0	22,400	117.0	
Boron	NC	NC	1.5	NA	NA	NA	NA	NA	
Leachable pH (pH units)	≤2; ≥12.5	NC	6.83	8.4	8.8	8.6	4.6	8.4	

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-7E
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	A(-2) 08/07/13 Arsenic Area	A(-1) 08/05/13 Arsenic Area	A0 08/05/13 Arsenic Area	A1 07/10/13 Arsenic Area	A2 07/10/13 Arsenic Area	A3 07/10/13 Arsenic Area	A4 07/10/13 Arsenic Area	A5 07/10/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Misc. Fill	Excavated	Misc. Fill	Excavated	Misc. Fill	3.1	Excavated	Excavated
4.0'	13.0	16.0	Sludge	Excavated	7.1	Sludge	3.5	3.7 (3.2)	3.5	Excavated
6.0'	13.0	16.0	5.9	7.8	5.5	4.1	3.1	NS	3.6 (5.6')	3.6
8.0'	13.0	16.0	5.0	3.8	2.8	5.4	5.2	5.0	NS	5.8 (6.9')
10.0'	13.0	16.0	NS	NS	NS	4.4	NS	4.6 (8.3')	NS	

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	A6 07/10/13 Arsenic Area	A7 07/10/13 Arsenic Area	B(-2) 08/07/13 Arsenic Area	B(-1) 08/06/13 Arsenic Area	B0 08/05/13 Arsenic Area	B1 07/12/13 Arsenic Area	B2 07/12/13 Arsenic Area	B3 07/12/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Excavated	2.6	Misc. Fill	Misc. Fill	Excavated	Excavated	Excavated	Excavated
4.0'	13.0	16.0	5.1	2.4	Sludge	Sludge	NS	Excavated	3.5	3.4
6.0'	13.0	16.0	6.4 (6.4')	4.1 (5.4')	Misc. Fill	3.1	3.4	5.1	6.1	4.3
8.0'	13.0	16.0			3.5	4.9	7.2	4.6 (6.9')		
10.0'	13.0	16.0								

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	B4 07/12/13 Arsenic Area	B5 07/10/13 Arsenic Area	B6 07/10/13 Arsenic Area	B7 07/10/13 Arsenic Area	C(-2) 08/07/13 Arsenic Area	C(-1) 08/06/13 Arsenic Area	C0(-5) 07/12/13 Arsenic Area	C1 08/05/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Excavated	6.1	Excavated	2.9	Misc. Fill	NS	Excavated	Excavated
4.0'	13.0	16.0	3.3	3.8	3.4	3.6	13.8	Sludge	Excavated	Excavated
6.0'	13.0	16.0	3.7 (5.8')	11.4 (6.4')	3.8	4.4 (5.8')	3.1	11.6	3.0	11.6
8.0'	13.0	16.0						3.1 (7.3')	3.6	3.7 (7.3')
10.0'	13.0	16.0							4.1 (8.8')	

Table 2-7E
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	C2 07/12/13 Arsenic Area	C3 07/12/13 Arsenic Area	C4 07/12/13 Arsenic Area	C5 07/12/13 Arsenic Area	C6 07/12/13 Arsenic Area	C7 07/12/13 Arsenic Area	D(-2) 08/07/13 Arsenic Area	D(-1) 08/06/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Excavated	Excavated	Excavated	Excavated	Excavated	Excavated	Excavated	Excavated
4.0'	13.0	16.0	3.0	Excavated	2.9	2.8	2.9	3.2	3.5	Excavated
6.0'	13.0	16.0	4.0	4.0	9.7	3.4 (5.6')	4.3 (5.0')	3.6 (5.0')	3.3	2.9
8.0'	13.0	16.0								3.7 (7.8')
10.0'	13.0	16.0								

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	D0 07/15/13 Arsenic Area	D1 08/05/13 Arsenic Area	D2 07/15/13 Arsenic Area	D3 07/15/13 Arsenic Area	D4 07/15/13 Arsenic Area	D5 07/15/13 Arsenic Area	D6 07/15/13 Arsenic Area	D7 07/15/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	10.8	3.7	Excavated	Excavated	4.7	2.0 J	2.2 J	Misc. Fill
4.0'	13.0	16.0	3.0	5.0	3.0	4.0	7.9	3.5	3.7	2.7
6.0'	13.0	16.0	3.0	2.9	3.1	3.7	3.7	2.9	3.0	3.3
8.0'	13.0	16.0	4.8 (7.5')	4.6 (7.8')	3.5 (7.0')	5.3 (7.6')				
10.0'	13.0	16.0								

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	E(-2) 08/07/13 Arsenic Area	E(-1) 08/06/13 Arsenic Area	E0 07/16/13 Arsenic Area	E1 08/05/13 Arsenic Area	E2 07/16/13 Arsenic Area	E3 07/16/13 Arsenic Area	E4 07/15/13 Arsenic Area	E5 07/15/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Excavated	Excavated	Excavated	9.6 (2.2')	Excavated	4.1	Excavated	4.0
4.0'	13.0	16.0	Excavated	4.2	3.4	2.8	4.1	3.8	3.8	3.0
6.0'	13.0	16.0	3.4	3.3	3.0	3.5	3.6 (5.6')	3.3	3.3 (5.8')	6.7
8.0'	13.0	16.0		4.4	5.1	3.1 (7.3')				
10.0'	13.0	16.0								

Table 2-7E
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	E6 07/15/13 Arsenic Area	E7 07/15/13 Arsenic Area	F(-1) 08/06/13 Arsenic Area	F0 07/16/13 Arsenic Area	F1 07/16/13 Arsenic Area	F2 07/16/13 Arsenic Area	F3 07/16/13 Arsenic Area	F4 07/16/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	NS	2.7	Excavated	Excavated	Excavated	3.1	8.7	3.7
4.0'	13.0	16.0	3.5	3.1	3.6	3.8	3.3	3.4	3.1	6.2
6.0'	13.0	16.0	3.2	2.5	3.3	2.5	2.8			2.5 (5.7')
8.0'	13.0	16.0			3.4	4.5	3.1			
10.0'	13.0	16.0								

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F5 07/16/13 Arsenic Area	F6 07/16/13 Arsenic Area	F7 07/17/13 Arsenic Area	G(-1) 08/06/13 Arsenic Area	G0 08/06/13 Arsenic Area	G1 08/07/13 Arsenic Area	G2 08/07/13 Arsenic Area	SB-1 07/16/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	10.6	5.3	Excavated	Misc. Fill	Excavated	Misc. Fill	3.5	Excavated
4.0'	13.0	16.0	3.3	3.6	3.5	5.7	4.2	3.7	3.7	3.5
6.0'	13.0	16.0		2.9	2.7 (5.0')	NS	3.4	3.3	5.3 (5.8')	3.3
8.0'	13.0	16.0				NS				5.7
10.0'	13.0	16.0								

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	SB-2 07/17/13 Arsenic Area	SB-3 07/17/13 Arsenic Area	SB-4 07/17/13 Arsenic Area	SB-5 07/17/13 Arsenic Area	SB-6 07/17/13 Arsenic Area	SB-7 07/17/13 Arsenic Area	B-5R 08/06/13 Arsenic Area	B-7R 08/05/13 Arsenic Area
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	15.0 (1.9')	Excavated	Excavated	2.4	3.6 (3.1')	18.0	Excavated	Excavated
4.0'	13.0	16.0	3.4	2.5	3.5	3.1	3.6	16.8	Excavated	4.0
6.0'	13.0	16.0		2.6	5.6 (5.5')	2.8		3.0	Misc. Fill	3.2
8.0'	13.0	16.0						3.2	4.5	8.9
10.0'	13.0	16.0								

Table 2-7E
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Department of
Environmental
Conservation

Sample Number Date Sampled Sample Location Sample Depth	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	B-8R 08/07/13 Arsenic Area							
Arsenic (mg/kg or ppm)										
2.0'	13.0	16.0	Excavated							
4.0'	13.0	16.0	3.8							
6.0'	13.0	16.0	4.6							
8.0'	13.0	16.0								
10.0'	13.0	16.0								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

SCO = Soil cleanup objective.

Grey shaded cells indicate that bedrock was encountered before the associated depth.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objective for arsenic.

(3.2) = Duplicate sample collected on August 5, 2013.

(6.4') = Depth of sample collection when it is different from the standards depths of 2.0', 4.0', 6.0', 8.0' and 10.0'.

Results for miscellaneous fill and sludge samples are in other tables.

Table 2-7F
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Type	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	C(-1) 08/06/13 7.3' Stained Soil	C(-2) 08/07/13 4.0' Stained Soil			
Metals (mg/kg or ppm)							
Aluminum	NC	10,000 ●	NA	NA			
Arsenic ■	13.0	16.0	3.1	13.8			
Barium	350	400	64.8	222			
Beryllium ■	7.2	590	NA	NA			
Cadmium ■	2.5	9.3	0.072 J	0.37			
Chromium ■	30.0	1,500	6.4	14.5			
Cobalt	NC	30 **	NA	NA			
Copper ■	50.0	270	NA	NA			
Iron	NC	2,000 **	NA	NA			
Lead ■	63.0	1,000	2.7	41.4			
Manganese	1,600	10,000	NA	NA			
Mercury ■	0.18	2.8	ND (0.022)	2.3			
Nickel ■	30.0	310	NA	NA			
Selenium ■	3.9	1,500	ND (4.9)	0.52 J			
Silver ■	2.0	1,500	ND (0.61)	ND (0.63)			
Vanadium	NC	100 **	NA	NA			
Zinc ■	109	10,000	NA	NA			

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

Table 2-7F
Analytical Results for Subsurface Soil Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Notes (continued):

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-8A
Analytical Results for EPA Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	CONF-1 11/15/00 1.5' Barren Strip	CONF-2 11/15/00 1.5' Barren Strip	CONF-3 11/15/00 1.5' Barren Strip	CONF-4 12/14/00 NR Ponded Water	CONF-5 12/14/00 NR Low pH Trough	CONF-6 12/14/00 NR Low pH Trough
Pesticides (µg/kg or ppb)								
Aldrin	5.0	680.0	ND (170)	ND (50)	ND (50)	ND (50)	ND (50)	ND (170)
alpha-BHC	20.0	3,400	ND (170)	ND (50)	56.0	ND (50)	ND (50)	ND (170)
delta-BHC	40.0	500,000	ND (170)	ND (50)	ND (50)	ND (50)	ND (50)	ND (170)
gamma-BHC (Lindane)	100.0	9,200	ND (170)	ND (50)	ND (50)	ND (50)	ND (50)	ND (170)
Chlordane	94.0	24,000	ND (340)	ND (100)	ND (100)	ND (100)	ND (100)	ND (340)
4,4'-DDD	3.3	92,000	490.0	ND (100)	ND (100)	ND (100)	970.0	2,400
4,4'-DDE	3.3	62,000	5,600	ND (100)	ND (100)	ND (100)	120.0	ND (340)
4,4'-DDT	3.3	47,000	1,500	ND (100)	ND (100)	ND (100)	890.0	3,000
Dieldrin	5.0	1,400	ND (340)	ND (100)	ND (100)	ND (100)	ND (100)	ND (340)
Endosulfan (I)	2,400	200,000	ND (170)	ND (50)	ND (50)	ND (50)	ND (50)	ND (170)
Endosulfan (II)	2,400	200,000	ND (340)	ND (100)	ND (100)	ND (100)	ND (100)	ND (340)
Endrin	14.0	89,000	ND (340)	ND (100)	ND (100)	ND (100)	ND (100)	440.0
Endrin Ketone	NC	NC	ND (340)	ND (100)	ND (100)	ND (100)	ND (100)	ND (340)
Heptachlor	42.0	15,000	ND (170)	ND (50)	ND (50)	ND (50)	ND (50)	ND (170)
Methoxychlor	NS	100,000 **	ND (1,700)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1,700)
Herbicides (µg/kg or ppb)								
2,4-D	NC	100,000 **	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	3,800	500,000	"	"	"	"	"	"
2,4,5-T	NC	100,000 **	"	"	"	"	"	"
PCBs (µg/kg or ppb)								
PCBs (Total)	12,000	500,000	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)
Metals (mg/kg or ppm)								
Aluminum	NC	10,000 •	2,400	1,700	1,400	3,700	3,700	2,800
Arsenic ■	13.0	16.0	2.8	4.9	31.0	1.5	7.4	5.3
Beryllium ■	7.2	590.0	ND (0.2)	ND (0.2)	ND (0.2)	0.23	ND (0.2)	ND (0.2)
Cadmium ■	2.5	9.3	0.40	1.2	0.55	1.3	1.2	0.78

Table 2-8A
Analytical Results for EPA Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	CONF-1 11/15/00 1.5' Barren Strip	CONF-2 11/15/00 1.5' Barren Strip	CONF-3 11/15/00 1.5' Barren Strip	CONF-4 12/14/00 NR Ponded Water	CONF-5 12/14/00 NR Low pH Trough	CONF-6 12/14/00 NR Low pH Trough
Metals (continued)								
Chromium ■	30.0	1,500	3.0	2.3	1.7	4.9	6.3	4.5
Cobalt	NC	30 **	ND (1)	ND (1)	3.4	3.4	3.7	2.3
Copper ■	50.0	270.0	6.2	3.2	280.0	21.0	19.0	22.0
Iron	NC	2,000 **	2,400	7,100	1,500	6,300	5,500	3,300
Lead ■	63.0	1,000	6.3	4.0	5.3	2.4	9.8	12.0
Manganese	1,600	10,000	31.0	13.0	19.0	380.0	210.0	140.0
Mercury ■	0.18	2.8	0.23	0.19	ND (0.1)	ND (0.1)	0.18	0.64
Nickel ■	30.0	310.0	ND (2)	ND (2)	5.3	6.6	6.8	4.6
Vanadium	NC	100 **	5.3	7.8	2.8	7.5	7.7	4.9
Zinc ■	109.0	10,000	4.3	1.9	13.0	14.0	14.0	23.0

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-8B
Analytical Results for EPA Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	CONF-7 05/15/01 NR Drainage Ditch	CONF-8 05/15/01 2.0' Prod. Bldg.	CONF-9 05/15/01 2.0' Prod. Bldg.	CONF-10 06/25/01 NR North Lagoon	CONF-11 06/25/01 NR North Lagoon	
Pesticides (µg/kg or ppb)								
Aldrin	5.0	680.0	NA	NA	NA	ND (1.4)	ND (1)	
alpha-BHC	20.0	3,400	"	"	"	ND (1.4)	ND (1)	
delta-BHC	40.0	500,000	"	"	"	ND (1.4)	ND (1)	
gamma-BHC (Lindane)	100.0	9,200	"	"	"	ND (1.4)	ND (1)	
Chlordane	94.0	24,000	"	"	"	ND (28)	ND (20)	
4,4'-DDD	3.3	92,000	"	"	"	10.0	ND (6)	
4,4'-DDE	3.3	62,000	"	"	"	3.3	ND (2)	
4,4'-DDT	3.3	47,000	"	"	"	ND (8.3)	ND (6)	
Dieldrin	5.0	1,400	"	"	"	ND (2.8)	ND (2)	
Endosulfan (I)	2,400	200,000	"	"	"	ND (2.8)	ND (2)	
Endosulfan (II)	2,400	200,000	"	"	"	ND (2.8)	ND (2)	
Endrin	14.0	89,000	"	"	"	ND (2.8)	ND (2)	
Endrin Ketone	NC	NC	"	"	"	NA	NA	
Heptachlor	42.0	15,000	"	"	"	ND (1.4)	ND (1)	
Methoxychlor	NS	100,000 **	"	"	"	ND (28)	ND (20)	
Herbicides (µg/kg or ppb)								
2,4-D	NC	100,000 **	NA	NA	NA	ND (5,000)	ND (5,000)	
2,4,5-TP (Silvex)	3,800	500,000	"	"	"	ND (5,000)	ND (5,000)	
2,4,5-T	NC	100,000 **	"	"	"	ND (5,000)	ND (5,000)	
PCBs (µg/kg or ppb)								
PCBs (Total)	12,000	500,000	NA	NA	NA	NA	NA	
Metals (mg/kg or ppm)								
Aluminum	NC	10,000 •	6,800	3,400	1,300	6,200	7,400	
Arsenic ■	13.0	16.0	3.4	8.3	17.0	4.7	2.4	
Beryllium ■	7.2	590.0	0.35	ND (0.2)	ND (0.2)	ND (0.28)	0.36	
Cadmium ■	2.5	9.3	0.23	0.56	0.43	0.28	0.36	

Table 2-8B
Analytical Results for EPA Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	CONF-7 05/15/01 NR Drainage Ditch	CONF-8 05/15/01 2.0' Prod. Bldg.	CONF-9 05/15/01 2.0' Prod. Bldg.	CONF-10 06/25/01 NR North Lagoon	CONF-11 06/25/01 NR North Lagoon	
Metals (continued)								
Chromium ■	30.0	1,500	9.3	20.0	2.0	9.1	11.0	
Cobalt	NC	30 **	8.4	5.9	3.0	3.2	6.1	
Copper ■	50.0	270.0	290.0	32.0	160.0	36.0	34.0	
Iron	NC	2,000 **	17,000	12,000	5,200	9,000	14,000	
Lead ■	63.0	1,000	12.0	21.0	15.0	7.8	7.6	
Manganese	1,600	10,000	1,800	70.0	53.0	220.0	360.0	
Mercury ■	0.18	2.8	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.138)	ND (0.1)	
Nickel ■	30.0	310.0	8.3	12.0	ND (2.5)	7.8	12.0	
Vanadium	NC	100 **	12.0	43.0	3.6	15.0	19.0	
Zinc ■	109.0	10,000	84.0	820.0	29.0	23.0	35.0	

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

● = Protection of ecological resources soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

■ = Environmental Protection Agency priority pollutant metal.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Grey shaded values exceed the Commissioner's Policy CP-51 Residential Use Soil Cleanup Objectives.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-1 02/26/14 ≈ 3' Arsenic Area	F-2 02/26/14 ≈ 3' Arsenic Area	W-1 02/26/14 ≈ 1.5' Arsenic Area	W-2 02/26/14 ≈ 1.5' Arsenic Area	W-3 02/26/14 ≈ 1.5' Arsenic Area	F-3 02/26/14 ≈ 2' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	4.9	3.7	4.3	3.9	21.0	4.2

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-4 02/26/14 ≈ 1' Arsenic Area	F-5 02/28/14 ≈ 2' Arsenic Area	F-6 02/28/14 ≈ 3' Arsenic Area	W-5 02/28/14 ≈ 1.5' Arsenic Area	F-7 02/28/14 ≈ 5' Arsenic Area	F-8 02/28/14 ≈ 5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	7.3	3.1	3.2	4.9	4.2	3.3

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-6 03/03/14 ≈ 1' Arsenic Area	W-7 03/03/14 ≈ 1' Arsenic Area	F-9 03/03/14 ≈ 2' Arsenic Area	F-10 03/03/14 ≈ 2' Arsenic Area	W-9 03/03/14 ≈ 1' Arsenic Area	W-10 03/03/14 ≈ 1' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	3.1	3.2	5.8	4.3	4.1	3.4

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-11 03/03/14 ≈ 2' Arsenic Area	F-12 03/03/14 ≈ 2' Arsenic Area	W-11 03/03/14 ≈ 1.5' Arsenic Area	W-12 03/03/14 ≈ 1.5' Arsenic Area	W-13 03/03/14 ≈ 1.5' Arsenic Area	F-13 03/03/14 ≈ 3' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.0	2.8	3.7	5.2	4.2	4.7

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-14 03/03/14 ≈ 3' Arsenic Area	W-14 03/03/14 ≈ 1.5' Arsenic Area	W-15 03/03/14 ≈ 1.5' Arsenic Area	F-15 03/03/14 ≈ 3' Arsenic Area	W-16 03/03/14 ≈ 1.5' Arsenic Area	F-16 03/04/14 ≈ 5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	3.7	4.8	4.3	3.5	5.6	6.1

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-17 03/04/14 ≈ 5' Arsenic Area	F-18 03/04/14 ≈ 3' Arsenic Area	F-19 03/04/14 ≈ 3' Arsenic Area	F-20 03/04/14 ≈ 2' Arsenic Area	F-21 03/04/14 ≈ 2' Arsenic Area	W-17 03/04/14 ≈ 1' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.4	5.6	11.0	6.2	6.6	21.0

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-4R 03/04/14 ≈ 2.5' Arsenic Area	F-22 03/04/14 ≈ 5' Arsenic Area	F-23 03/04/14 ≈ 5' Arsenic Area	F-24 03/05/14 ≈ 2' Arsenic Area	F-25 03/05/14 ≈ 2' Arsenic Area	F-26 03/05/14 ≈ 3' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.2	5.7	7.0	6.7	5.4	7.7

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-27 03/05/14 ≈ 3' Arsenic Area	W-18 03/05/14 ≈ 1' Arsenic Area	W-19 03/05/14 ≈ 1' Arsenic Area	W-20 03/05/14 ≈ 1' Arsenic Area	W-21 03/05/14 ≈ 1' Arsenic Area	W-22 03/05/14 ≈ 1.5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.2	4.1	3.2	3.3	4.8	4.0

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-23 03/05/14 ≈ 1.5' Arsenic Area	W-24 03/05/14 ≈ 1.5' Arsenic Area	F-28 03/05/14 ≈ 3' Arsenic Area	W-25 03/05/14 ≈ 2.5' Arsenic Area	F-29 03/07/14 ≈ 5' Arsenic Area	W-26 03/07/14 ≈ 2.5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	4.1	3.0	4.1	3.4	6.7	5.0

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-27 03/07/14 ≈ 2.5' Arsenic Area	W-28 03/07/14 ≈ 1' Arsenic Area	F-30 03/07/14 ≈ 2' Arsenic Area	F-31 03/07/14 ≈ 2' Arsenic Area	W-29 03/07/14 ≈ 1' Arsenic Area	F-32 03/10/14 ≈ 5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	8.9	5.0	5.6	5.1	5.8	8.1

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-33 03/10/14 ≈ 5' Arsenic Area	W-30 03/10/14 ≈ 2.5' Arsenic Area	W-31 03/10/14 ≈ 2.5' Arsenic Area	W-32 03/10/14 ≈ 2.5' Arsenic Area	W-33 03/10/14 ≈ 2.5' Arsenic Area	F-34 03/10/14 ≈ 3' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	7.5	9.3	4.2	8.9	7.7	6.6

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-35 03/10/14 ≈ 3' Arsenic Area	W-34 03/10/14 ≈ 1.5' Arsenic Area	F-36 03/10/14 ≈ 5' Arsenic Area	F-37 03/10/14 ≈ 5' Arsenic Area	W-36 03/10/14 ≈ 2.5' Arsenic Area	W-37 03/10/14 ≈ 2.5' Arsenic Area
Date Sampled								
Sample Depth								
Sample Location								
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	10.0	7.9	5.4	5.8	4.4	4.8

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-38 03/11/14 ≈ 3' Arsenic Area	F-39 03/11/14 ≈ 3' Arsenic Area	W-38 03/11/14 ≈ 1.5' Arsenic Area	W-39 03/11/14 ≈ 1.5' Arsenic Area	W-40 03/11/14 ≈ 1.5' Arsenic Area	F-40 03/11/14 ≈ 3' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	9.2	5.7	5.5	5.4	6.2	6.2

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-41 03/11/14 ≈ 1.5' Arsenic Area	W-42 03/11/14 ≈ 1.5' Arsenic Area	W-43 03/11/14 ≈ 1.5' Arsenic Area	W-44 03/11/14 ≈ 1.5' Arsenic Area	F-41 03/11/14 ≈ 3' Arsenic Area	F-42 03/11/14 ≈ 3' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	6.0	5.8	5.9	5.7	6.2	5.5

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-45 03/11/14 ≈ 1.5' Arsenic Area	W-46 03/11/14 ≈ 1.5' Arsenic Area	W-47 03/11/14 ≈ 1.5' Arsenic Area	F-43 03/14/14 ≈ 3' Arsenic Area	F-44 03/14/14 ≈ 3' Arsenic Area	W-48 03/14/14 ≈ 1.5' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	6.4	5.2	5.5	5.9	6.4	9.8

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-49 03/14/14 ≈ 1.5' Arsenic Area	W-50 03/14/14 ≈ 1.5' Arsenic Area	F-45 03/14/14 ≈ 3' Arsenic Area	F-46 03/14/14 ≈ 3' Arsenic Area	F-47 03/14/14 ≈ 3' Arsenic Area	F-48 03/14/14 ≈ 3' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	6.2	6.8	7.3	7.2	7.1	6.0

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-49 03/17/14 ≈ 3' Arsenic Area	F-50 03/17/14 ≈ 3' Arsenic Area	W-51 03/17/14 ≈ 1.5' Arsenic Area	F-51 03/17/14 ≈ 5' Arsenic Area	F-52 03/17/14 ≈ 5' Arsenic Area	W-52 03/17/14 ≈ 2.5' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	3.7	4.0	4.9	3.8	3.9	4.4

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-53 03/17/14 ≈ 2.5' Arsenic Area	W-54 03/17/14 ≈ 1.5' Arsenic Area	F-53 03/18/14 ≈ 3' Arsenic Area	F-54 03/18/14 ≈ 3' Arsenic Area	W-55 03/18/14 ≈ 1.5' Arsenic Area	W-56 03/18/14 ≈ 1.5' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	5.5	2.5	3.9	3.5	4.7	3.5

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	F-55 03/18/14 ≈ 5' Arsenic Area	F-56 03/18/14 ≈ 5' Arsenic Area	W-57 03/18/14 ≈ 2.5' Arsenic Area	W-58 03/18/14 ≈ 2.5' Arsenic Area	F-57 03/18/14 ≈ 2' Arsenic Area	F-58 03/18/14 ≈ 2' Arsenic Area
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	3.4	4.0	3.9	3.4	5.0	3.5

Sample Number	NYSDEC Part 375 Unrestricted SCO *	NYSDEC Part 375 Commercial SCO *	W-59 03/18/14 ≈ 1' Arsenic Area	W-60 03/18/14 ≈ 1' Arsenic Area	W-61 03/18/14 ≈ 1' Arsenic Area	W-62 03/18/14 ≈ 1' Arsenic Area	W-63 03/18/14 ≈ 1' Arsenic Area	
Metals (mg/kg or ppm)								
Arsenic ■	13.0	16.0	4.9	2.9	4.1	4.2	3.7	

Table 2-8C
Analytical Results for NYSDEC Confirmatory Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes:

*** = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted and Commercial Soil Cleanup Objectives, NYSDEC, 2006.**

■ = Environmental Protection Agency priority pollutant metal.

SCO = Soil cleanup objective.

Yellow shaded values exceed the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives for arsenic.

Orange shaded values exceed the 6 NYCRR Part 375 Commercial Use Soil Cleanup Objective for arsenic.

Table 2-9A
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-1 06/21/00 NR Boundary Ditch Downstream of Trough	SED-2 06/21/00 NR Boundary Ditch Upstream of Trough	SED-5 12/14/00 NR Boundary Ditch East of 90 ^o Bend	SED-6 09/03/03 0.0' - 0.08' Boundary Ditch at Road
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Semivolatile Organic Compounds (µg/kg or ppb)								
Benzo[a]anthracene (PAH)	NC	NC	NC	16,820	NA	NA	ND (330)	200 J
Benzo[a]pyrene (PAH)	NC	NC	NC	19,280	"	"	ND (330)	170 J
Benzo[b]fluoranthene (PAH)	NC	NC	NC	19,580	"	"	ND (330)	180 J
Benzo[g,h,i]perylene (PAH)	NC	NC	NC	21,900	"	"	ND (330)	120 J
Benzo[k]fluoranthene (PAH)	NC	NC	NC	19,600	"	"	ND (330)	120 J
Bis[2-ethylhexyl]phthalate	NC	NC	NC	NC	"	"	ND (330)	ND (2,100)
Chrysene (PAH)	NC	NC	NC	16,860	"	"	ND (330)	220 J
Di-n-butylphthalate	NC	NC	NC	NC	"	"	750.0	ND (2,100)
Fluoranthene (PAH)	NC	NC	NC	14,160	"	"	ND (330)	550 J
Indeno[1,2,3-cd]pyrene (PAH)	NC	NC	NC	22,300	"	"	ND (330)	100 J
Phenanthrene (PAH)	NC	NC	NC	11,940	"	"	ND (330)	450 J
Pyrene (PAH)	NC	NC	NC	13,960	"	"	ND (330)	440 J
Pesticides (µg/kg or ppb)								
Aldrin	NC	NC	NC	1.1	NA	NA	ND (50)	ND (40)
alpha-BHC	NC	NC	NC	21.0	"	"	ND (50)	ND (40)
delta-BHC	NC	NC	NC	21.0	"	"	ND (50)	ND (40)
gamma-BHC (Lindane)	< 47	47 - 78	> 78	21.0	"	"	ND (50)	ND (40)
Chlordane	< 68	68 - 38,000	> 38,000	7.6	"	"	ND (100)	ND (200)
4,4'-DDD	NC	NC	NC	NC	"	"	100.0	7 J
4,4'-DDE	NC	NC	NC	NC	"	"	ND (100)	28 J
4,4'-DDT	< 44	44 - 48,000	> 48,000	0.48	"	"	ND (100)	7.5 J
Dieldrin	< 180	180 - 780	> 780	1.1	"	"	ND (100)	ND (80)
Endosulfan (I)	< 1	1 - 20	> 20	NC	"	"	ND (50)	ND (80)
Endosulfan (II)	< 1	1 - 20	> 20	NC	"	"	ND (100)	ND (80)
Endosulfan Sulfate	NC	NC	NC	NC	"	"	ND (100)	ND (80)

Table 2-9A
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-1 06/21/00 NR Boundary Ditch Downstream of Trough	SED-2 06/21/00 NR Boundary Ditch Upstream of Trough	SED-5 12/14/00 NR Boundary Ditch East of 90 ^o Bend	SED-6 09/03/03 0.0' - 0.08' Boundary Ditch at Road
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Pesticides (continued)								
Endrin	< 90	90 - 220	> 220	1.4	NA	NA	ND (100)	ND (80)
Endrin Ketone	NC	NC	NC	NC	"	"	ND (100)	ND (80)
Heptachlor	< 75	75 - 10,000	> 10,000	5.2	"	"	ND (50)	ND (40)
Methoxychlor	< 59	> 59	NC	NC	"	"	ND (500)	ND (400)
Herbicides (µg/kg or ppb)								
2,4-D	NC	NC	NC	NC	2.5 JBP	8.7 B	NA	ND (1000)
2,4,5-TP (Silvex)	NC	NC	NC	NC	0.39 JBP	0.22 JBP	"	ND (400)
2,4,5-T	NC	NC	NC	NC	0.95 JBP	1.2 JBP	"	ND (400)
PCBs (µg/kg or ppb)								
PCBs (Total)	< 100	100 - 1,000	> 1,000	4.1	NA	NA	ND (1,000)	NA
Metals (mg/kg or ppm)								
Aluminum	NC	NC	NC	NC	6,340	6,160	6,400	11,300
Arsenic ■	< 10	10 - 33	> 33	NC	23.5 N	22.1 N	23.0	5.5
Beryllium ■	NC	NC	NC	NC	0.25 B	0.33 B	0.27	0.59 B
Cadmium ■	< 1	1 - 5	> 5	NC	ND (0.032)	ND (0.034)	1.1	ND (0.04)
Chromium ■	< 43	43 - 110	> 110	NC	11.2	69.6	16.0	13.7
Cobalt	NC	NC	NC	NC	3.9	4.5	2.0	6.5 B
Copper ■	< 32	32 - 150	> 150	NC	65.8 N	53.4 N	27.0	18.6 N
Iron	NC	NC	NC	NC	14,900	15,300	5,100	15,500
Lead ■	< 36	36 - 130	> 130	NC	15.5 N	314 N	22.0	48.9
Manganese	NC	NC	NC	NC	326 N	309 N	48.0	563.0
Mercury ■	< 0.2	0.2 - 1	> 1	NC	0.27 N	0.19 N	0.51	0.025 B
Nickel ■	< 23	23 - 49	> 49	NC	10.1	10.4	5.6	16.2
Vanadium	NC	NC	NC	NC	17.7	17.2	16.0	19.2
Zinc ■	< 120	120 - 460	> 460	NC	54.7	83.9	21.0	106 E

Table 2-9A
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-1 06/21/00 NR Boundary Ditch Downstream of Trough	SED-2 06/21/00 NR Boundary Ditch Upstream of Trough	SED-5 12/14/00 NR Boundary Ditch East of 90 ^o Bend	SED-6 09/03/03 0.0' - 0.08' Boundary Ditch at Road
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Miscellaneous Compounds (mg/kg or ppm)								
Sulfur	NC	NC	NC	NC	2,530	2,260	NA	NA
Boron	NC	NC	NC	NC	30.6	25.2	"	5.1 B
Leachable pH (pH units)	NC	NC	NC	NC	NA	NA	"	6.86

Notes:

* = Screening and Assessment of Contaminated Sediment, NYSDEC, 2014.

** = Sediment criteria using the default total organic carbon content of 2%. Sediment criteria for PAHs are from Table 7 of the NYSDEC screening document, while wildlife bioaccumulation criteria are from Table 8.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Unshaded values are Class A sediments (sediments are considered to be of low risk to aquatic life) or do not exceed the PAH or Wildlife Bioaccumulation sediment criteria.

Purple shaded values are Class B sediments (sediments are slightly to moderately contaminated and additional testing is required to evaluate the potential risks to aquatic life).

Yellow shaded values are Class C sediments (sediments are considered to be highly contaminated and likely to pose a risk to aquatic life).

Orange shaded values exceed the PAH or Wildlife Bioaccumulation sediment criteria.

Table 2-9B
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-7 03/03/09 0.0' - 0.17' Boundary Ditch at 90 ^o Bend	SED-8 03/03/09 0.17' - 0.33' Historic Ditch	SED-11 03/03/09 0.0' - 0.17' Ponded Water Area	
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Semivolatile Organic Compounds (µg/kg or ppb)								
Benzo[a]anthracene (PAH)	NC	NC	NC	16,820	25 J	13 J	ND (2,800)	
Benzo[a]pyrene (PAH)	NC	NC	NC	19,280	33 J	13 J	ND (2,800)	
Benzo(b)fluoranthene (PAH)	NC	NC	NC	19,580	17 J	16 J	ND (2,800)	
Benzo(g,h,i)perylene (PAH)	NC	NC	NC	21,900	16 J	ND (440)	ND (2,800)	
Benzo(k)fluoranthene (PAH)	NC	NC	NC	19,600	28 J	ND (440)	ND (2,800)	
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	16 J	14 J	ND (2,800)	
Chrysene (PAH)	NC	NC	NC	16,860	38 J	16 J	ND (2,800)	
Di-n-butylphthalate	NC	NC	NC	NC	ND (440)	ND (440)	ND (2,800)	
Fluoranthene (PAH)	NC	NC	NC	14,160	56 J	33 J	140 J	
Indeno(1,2,3-cd)pyrene (PAH)	NC	NC	NC	22,300	13 J	ND (440)	ND (2,800)	
Phenanthrene (PAH)	NC	NC	NC	11,940	38 J	21 J	110 J	
Pyrene (PAH)	NC	NC	NC	13,960	66 J	26 J	100 J	
Pesticides (µg/kg or ppb)								
Aldrin	NC	NC	NC	1.1	ND (86)	ND (42)	ND (130)	
alpha-BHC	NC	NC	NC	21.0	ND (86)	ND (42)	ND (130)	
delta-BHC	NC	NC	NC	21.0	15 J	ND (42)	ND (130)	
gamma-BHC (Lindane)	< 47	47 - 78	> 78	21.0	ND (86)	ND (42)	ND (130)	
Chlordane	< 68	68 - 38,000	> 38,000	7.6	34 J	ND (210)	ND (670)	
4,4'-DDD	NC	NC	NC	NC	390	8 J	220 J	
4,4'-DDE	NC	NC	NC	NC	57 J	21 J	47 J	
4,4'-DDT	< 44	44 - 48,000	> 48,000	0.48	50 J	8.7 J	250 J	
Dieldrin	< 180	180 - 780	> 780	1.1	ND (170)	ND (85)	ND (270)	
Endosulfan (I)	< 1	1 - 20	> 20	NC	ND (170)	ND (85)	ND (270)	
Endosulfan (II)	< 1	1 - 20	> 20	NC	17 J	ND (85)	ND (270)	
Endosulfan Sulfate	NC	NC	NC	NC	23 J	ND (85)	ND (270)	

Table 2-9B
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-7 03/03/09 0.0' - 0.17' Boundary Ditch at 90 ^o Bend	SED-8 03/03/09 0.17' - 0.33' Historic Ditch	SED-11 03/03/09 0.0' - 0.17' Ponded Water Area	
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Pesticides (continued)								
Endrin	< 90	90 - 220	> 220	1.4	ND (170)	ND (85)	ND (270)	
Endrin Ketone	NC	NC	NC	NC	ND (170)	ND (85)	ND (270)	
Heptachlor	< 75	75 - 10,000	> 10,000	5.2	ND (86)	ND (42)	ND (130)	
Methoxychlor	< 59	> 59	NC	NC	ND (860)	ND (420)	ND (1300)	
Herbicides (µg/kg or ppb)								
2,4-D	NC	NC	NC	NC	ND (1100)	ND (1000)	ND (1300)	
2,4,5-TP (Silvex)	NC	NC	NC	NC	ND (430)	ND (420)	ND (540)	
2,4,5-T	NC	NC	NC	NC	ND (430)	ND (420)	ND (540)	
PCBs (µg/kg or ppb)								
PCBs (Total)	< 100	100 - 1,000	> 1,000	4.1	NA	NA	NA	
Metals (mg/kg or ppm)								
Aluminum	NC	NC	NC	NC	7,820	12,000	7,860	
Arsenic ■	< 10	10 - 33	> 33	NC	53.0	8.4	33.3	
Beryllium ■	NC	NC	NC	NC	0.23 B	0.63 B	0.40 B	
Cadmium ■	< 1	1 - 5	> 5	NC	ND (0.04)	ND (0.04)	ND (0.05)	
Chromium ■	< 43	43 - 110	> 110	NC	17.8	11.3	7.8	
Cobalt	NC	NC	NC	NC	2.6 B	3.8 B	2.9 B	
Copper ■	< 32	32 - 150	> 150	NC	27.9 N	15.8 N	114 N	
Iron	NC	NC	NC	NC	10,100	9,590	13,100	
Lead ■	< 36	36 - 130	> 130	NC	34.1	57.8	19.5	
Manganese	NC	NC	NC	NC	55.8	75.5	122.0	
Mercury ■	< 0.2	0.2 - 1	> 1	NC	0.037 B	0.05	ND (0.021)	
Nickel ■	< 23	23 - 49	> 49	NC	7.0	11.7	8.7	
Vanadium	NC	NC	NC	NC	22.7	18.0	14.6	
Zinc ■	< 120	120 - 460	> 460	NC	28.2 E	60.7 E	35.3 E	

Table 2-9B
Analytical Results for Sediment Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Depth Sample Location	NYSDEC Sediment Criteria *				SED-7 03/03/09 0.0' - 0.17' Boundary Ditch at 90° Bend	SED-8 03/03/09 0.17' - 0.33' Historic Ditch	SED-11 03/03/09 0.0' - 0.17' Ponded Water Area	
	Class A	Class B	Class C	PAH or Wildlife Bioaccum- ulation **				
Miscellaneous Compounds (mg/kg or ppm)								
Sulfur	NC	NC	NC	NC	NA	NA	670	
Boron	NC	NC	NC	NC	3.6 B	1.9 B	3.4 B	
Leachable pH (pH units)	NC	NC	NC	NC	4.35	4.45	3.80	

Notes:

* = Screening and Assessment of Contaminated Sediment, NYSDEC, 2014.

** = Sediment criteria using the default total organic carbon content of 2%. Sediment criteria for PAHs are from Table 7 of the NYSDEC screening document, while wildlife bioaccumulation criteria are from Table 8.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

SCO = Soil cleanup objective.

Unshaded values are Class A sediments (sediments are considered to be of low risk to aquatic life) or do not exceed the PAH or Wildlife Bioaccumulation sediment criteria.

Purple shaded values are Class B sediments (sediments are slightly to moderately contaminated and additional testing is required to evaluate the potential risks to aquatic life).

Yellow shaded values are Class C sediments (sediments are considered to be highly contaminated and likely to pose a risk to aquatic life).

Orange shaded values exceed the PAH or Wildlife Bioaccumulation sediment criteria.

Table 2-10
Analytical Results for Surface Water Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Location	Surface Water Standard *	SW-7 04/30/08 Ponded Water	SW-8 05/01/08 North Lagoon	SW-9 04/30/08 Low pH Trough	SW-1 06/13/12 Boundary Ditch	SW-2 06/13/12 North Lagoon
Volatile Organic Compounds (µg/L or ppb)						
Acetone	50 G	22.0	ND (5.0)	5.3	ND (5.0)	ND (5.0)
2-Butanone	50 G	2.6 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Carbon Disulfide	NC	2.2	ND (1.0)	0.63 J	ND (5.0)	ND (5.0)
Toluene	5.0	ND (1.0)	0.67 J	ND (1.0)	ND (5.0)	ND (5.0)
Semivolatile Organic Compounds (µg/L or ppb)						
Pentachlorophenol	1.0	ND (10.0)	ND (10.0)	12.0	ND (20.0)	ND (20.0)
Phenol	1.0	ND (5.0)	ND (5.0)	5.0	ND (10.0)	ND (10.0)
Pesticides (µg/L or ppb)						
Aldrin	0.002 G	ND (0.051)	ND (0.048)	ND (0.25)	ND (0.050)	ND (0.050)
alpha-BHC	0.01	ND (0.051)	ND (0.048)	1.1	ND (0.050)	ND (0.050)
beta-BHC	0.04	ND (0.051)	ND (0.048)	0.19 J	ND (0.050)	ND (0.050)
delta-BHC	0.04	ND (0.051)	ND (0.048)	0.27	ND (0.050)	ND (0.050)
gamma-BHC (Lindane)	0.05	ND (0.051)	0.025 J	1.2	ND (0.050)	ND (0.050)
Chlordane	0.05	0.026 J	ND (0.048)	ND (0.25)	ND (0.050)	ND (0.050)
4,4'-DDD	0.3	0.020 J	0.024 J	ND (0.25)	ND (0.10)	ND (0.10)
4,4'-DDE	0.2	0.018 J	0.030 J	0.11 J	ND (0.10)	ND (0.10)
4,4'-DDT	0.2	0.046 J	ND (0.048)	ND (0.25)	ND (0.10)	ND (0.10)
Dieldrin	0.002 G	0.017 J	ND (0.048)	0.11 J	ND (0.10)	ND (0.10)
Endosulfan (I)	0.009	ND (0.051)	ND (0.048)	ND (0.25)	ND (0.050)	ND (0.050)
Endosulfan (II)	0.009	ND (0.051)	ND (0.048)	0.19 J	ND (0.10)	ND (0.10)
Endrin	0.20	ND (0.051)	ND (0.048)	ND (0.25)	ND (0.10)	ND (0.10)
Endrin Ketone	5.0 G	ND (0.051)	0.0095 J	0.10 J	ND (0.10)	ND (0.10)
Heptachlor	0.04	0.028 J	0.014 J	0.086 J	ND (0.050)	ND (0.050)
Methoxychlor	35.0	ND (0.051)	ND (0.048)	ND (0.25)	ND (0.50)	ND (0.50)

Table 2-10
Analytical Results for Surface Water Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Location	Surface Water Standard *	SW-7 04/30/08 Ponded Water	SW-8 05/01/08 North Lagoon	SW-9 04/30/08 Low pH Trough	SW-1 06/13/12 Boundary Ditch	SW-2 06/13/12 North Lagoon
Metals (µg/L or ppb)						
Aluminum	100.0	57,400 N	1,030 N	2,970 N	340.0	4,200
Arsenic ■	50.0	14.4 N	ND (10.0)	106 N	ND (4.3)	4.3 B
Barium	1,000	15.3 N	56.8 N	61.1 N	93.1 B	56.9 B
Beryllium ■	3.0 G	5.8 N	ND (2.0)	ND (2.0)	ND (0.26)	ND (0.26)
Cadmium ■	5.0	1.6	ND (1.0)	ND (1.0)	ND (0.89)	ND (0.89)
Calcium	NC	281,000	91,100	291,000	95,800	81,400
Chromium ■	50.0	5.1 N	ND (4.0)	4.0 N	0.67 B	6.6 B
Cobalt	5.0	92.3 N	ND (4.0)	6.9 N	0.76 B	3.4 B
Copper ■	200.0	16.8 N	ND (10.0)	50.3 N	5.4 B	12.7 B
Iron	300.0	104,000 N	1,520 N	17,900 N	1,090	6,490
Lead ■	50.0	5.2 N	ND (5.0)	19.1 N	ND (4.2)	6.3 B
Magnesium	35,000	68,200 E	13,100 E	102,000 E	18,800	24,400
Manganese	300	14,100 N	476 N	2,340 N	430.0	694.0
Mercury ■	0.7	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.028)	ND (0.028)
Nickel ■	100.0	144 N	ND (10.0)	16.4 N	1.5 B	8.2 B
Potassium	NC	3,630 EN	8,620 EN	6,820 EN	4,650	4,500
Silver ■	50.0	ND (3.0)	ND (3.0)	ND (3.0)	ND (6.9)	ND (6.9)
Sodium	NC	8,370	3,730	62,000	44,100	4,180
Vanadium	14.0	10.8 N	ND (5.0)	ND (5.0)	ND (1.1)	7.8 B
Zinc ■	2,000 G	260 N	11.1 N	99.3 N	7.6 B	41.8 B
Miscellaneous Compounds (µg/L or ppb)						
Sulfate	250,000	2,600,000	118,000	1,270,000	92,000	210,000
Sulfide	2.0	1,200	ND (1,000)	3,200	ND (30)	400.0
pH (Standard Units)	6.5-8.5	3.30	7.02	3.21	7.17	7.07

Table 2-10
Analytical Results for Surface Water Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes:

*** = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.**

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

E = Estimated concentration due to the presence of interference (inorganics).

G = Guidance value.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

Yellow shaded values exceed the NYSDEC surface water standards or guidance values.

Table 2-11
Summary of Surface Water pH and Temperature Measurements for 2008
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Location Number	Date	pH	Temp (°F)	Comments
Spill Area				
pH-1	04/16/08	6.81	49.1	
"	05/22/08	7.21	52.3	
"	06/25/08	NM	NM	not measured because location was dry
pH-2	04/16/08	6.77	52.9	
"	05/22/08	7.05	54.2	
"	06/25/08	NM	NM	not measured because location was dry
Central Drainage Ditch and Low pH Trough				
pH-15	04/30/08	3.21	68.2	
"	05/22/08	3.04	57.4	
"	06/25/08	NM	NM	not measured because location was dry
pH-3	04/16/08	5.91	55.6	
"	04/30/08	6.32	66.1	
"	05/22/08	6.53	NM	
"	06/25/08	NM	NM	not measured because location was dry
pH-13	04/16/08	5.72	48.7	
"	05/22/08	5.31	NM	
"	06/25/08	NM	NM	not measured because location was dry
pH-4	04/16/08	6.25	48.1	
"	05/22/08	6.55	NM	
"	06/25/08	NM	NM	not measured because location was dry
Ponded Water Area				
pH-5	04/16/08	3.39	49	
"	04/30/08	3.30	61	
"	05/22/08	3.48	NM	
"	06/25/08	3.18	NM	
pH-14	04/16/08	3.75	50.8	
"	04/30/08	3.30	61	
"	05/22/08	3.24	NM	
"	06/25/08	3.15	NM	
Eastern Boundary Ditch				
pH-6	04/16/08	7.31	48.4	
"	05/22/08	7.24	NM	
"	06/25/08	6.74	NM	
pH-12	04/16/08	7.16	50.2	
"	05/22/08	7.37	NM	
"	06/25/08	6.88	NM	

Table 2-11
Summary of Surface Water pH and Temperature Measurements for 2008
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Location Number	Date	pH	Temp (°F)	Comments
North Lagoon				
pH-7	04/16/08	7.01	52.1	
"	05/01/08	7.02	60.4	
"	05/22/08	7.32	NM	
"	06/25/08	7.20	NM	
pH-8	04/16/08	6.92	50.6	
"	05/22/08	7.49	NM	
"	06/25/08	6.90	NM	
pH-9	04/16/08	7.15	51.9	
"	05/22/08	7.37	NM	
"	06/25/08	7.01	NM	
pH-11	04/16/08	7.04	51.2	
"	05/22/08	7.27	NM	
"	06/25/08	7.18	NM	
Chip Area				
pH-10	04/16/08	5.92	49.3	
"	05/22/08	7.81	NM	
"	06/25/08	NM	NM	not measured because location was dry

Notes:

NM = Not Measured.

Yellow shaded values exceed the regulatory limit for corrosivity.

Orange shaded values are outside the acceptable limits for pH (6.5-8.5) in surface water.

Table 2-12A
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-1 04/30/08 West Side of Site Near Road	MW-2 04/30/08 East Side of Site Near Road	MW-3		MW-4 04/30/08 Filled Lagoon	MW-5	
				04/30/08	06/15/12		04/30/08	06/15/12
				West of 90 ^o Bend in Eastern Boundary Ditch			West of North Lagoon	
Volatile Organic Compounds (µg/L or ppb)								
Acetone	50 G	ND (5.0)	ND (5.0)	92.0	NA	21.0	30.0	NA
Benzene	1.0	ND (1.0)	ND (1.0)	0.87 J	"	ND (1.0)	ND (1.0)	"
2-Butanone	50 G	ND (5.0)	ND (5.0)	59.0	"	4.9 J	12.0	"
Carbon Disulfide	NC	ND (1.0)	ND (1.0)	93.0	"	15.0	1.5	"
Chlorobenzene	5.0	ND (1.0)	ND (1.0)	ND (1.0)	"	ND (1.0)	6.5	"
cis-1,2-Dichloroethene	5.0	ND (1.0)	0.77 J	0.50 J	"	ND (1.0)	ND (1.0)	"
1,2-Dichloroethane	0.6	ND (1.0)	ND (1.0)	ND (1.0)	"	ND (1.0)	ND (1.0)	"
1,2-Dichloropropane	1.0	ND (1.0)	ND (1.0)	ND (1.0)	"	ND (1.0)	ND (1.0)	"
Ethylbenzene	5.0	ND (1.0)	ND (1.0)	ND (1.0)	"	ND (1.0)	ND (1.0)	"
Isopropylbenzene	5.0	ND (1.0)	ND (1.0)	ND (1.0)	"	ND (1.0)	ND (1.0)	"
n-Propylbenzene	5.0	NA	NA	NA	"	NA	NA	"
Toluene	5.0	ND (1.0)	0.75 J	0.60 J	"	ND (1.0)	0.59 J	"
1,2,4-Trichlorobenzene	5.0 G	ND (1.0)	0.64 J	ND (1.0)	"	ND (1.0)	ND (1.0)	"
1,2,4-Trimethylbenzene	5.0	NA	NA	NA	"	NA	NA	"
1,3,5-Trimethylbenzene	5.0	NA	NA	NA	"	NA	NA	"
Xylene (Total)	5.0	ND (3.0)	ND (3.0)	ND (3.0)	"	ND (3.0)	ND (3.0)	"
Semivolatile Organic Compounds (µg/L or ppb)								
Acenaphthene (PAH)	20 G	NA	NA	NA	NA	ND (5.0)	NA	NA
Carbazole	NC	"	"	"	"	ND (5.0)	"	"
Dibenzofuran	NC	"	"	"	"	ND (5.0)	"	"
2,4-Dichlorophenol	5.0	"	"	"	"	ND (5.0)	"	"
Fluorene (PAH)	50 G	"	"	"	"	ND (5.0)	"	"
2-Methylnaphthalene	NC	"	"	"	"	ND (5.0)	"	"
Naphthalene (PAH)	10 G	"	"	"	"	ND (5.0)	"	"
Phenanthrene (PAH)	50 G	"	"	"	"	ND (5.0)	"	"

Table 2-12A
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-1 04/30/08 West Side of Site Near Road	MW-2 04/30/08 East Side of Site Near Road	MW-3		MW-4 04/30/08 Filled Lagoon	MW-5	
				04/30/08	06/15/12		04/30/08	06/15/12
				West of 90 ^o Bend in Eastern Boundary Ditch			West of North Lagoon	
Pesticides (µg/L or ppb)								
Aldrin	ND	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
alpha-BHC	0.01	ND (0.051)	ND (0.077)	0.029 J	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
beta-BHC	0.04	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
delta-BHC	0.04	ND (0.051)	ND (0.077)	0.025 J	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
gamma-BHC (Lindane)	0.05	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Chlordane	0.05	0.039 J	0.025 J	0.030 J	ND (0.050)	0.038 J	0.029 J	ND (0.050)
4,4'-DDD	0.3	0.022 J	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	0.024 J	ND (0.10)
4,4'-DDE	0.2	0.043 J	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	0.028 J	ND (0.10)
4,4'-DDT	0.2	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)
Dieldrin	0.004	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	0.028 J	ND (0.10)
Endosulfan (I)	NC	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.050)	0.032 J	ND (0.050)	ND (0.050)
Endosulfan (II)	NC	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)
Endrin	ND	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.10)	ND (0.050)	ND (0.050)	ND (0.10)
Endrin Ketone	5.0	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.10)	0.011 J	ND (0.050)	ND (0.10)
Heptachlor	0.04	ND (0.051)	ND (0.077)	0.020 J	ND (0.050)	0.016 J	ND (0.050)	ND (0.050)
Heptachlor Epoxide	0.03	0.016 J	ND (0.077)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Methoxychlor	35.0	ND (0.051)	ND (0.077)	ND (0.050)	ND (0.50)	ND (0.050)	ND (0.050)	ND (0.50)
Metals (µg/L or ppb)								
Aluminum	NC	33,000 N	64,600 N	5,460 N	NA	586 N	90,300 N	275,000
Antimony ■	3.0	ND (100)	ND (100)	ND (20.0)	"	ND (20.0)	ND (20.0)	ND (9.3)
Arsenic ■	25.0	10.9 N	31.1 N	365 N	"	10.4 N	65.2 N	202.0
Barium	1,000	482 N	798 N	234 N	"	107 N	1,090 N	2,120
Beryllium ■	3.0 G	ND (2.0)	2.7 N	3.8 N	"	ND (2.0)	6.2 N	9.6
Cadmium ■	5.0	2.2	1.8	ND (20.0)	"	ND (1.0)	ND (1.0)	2.6 B
Calcium	NC	238,000	508,000	6,870,000	"	663,000	4,500,000	5,760,000

Table 2-12A
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-1 04/30/08 West Side of Site Near Road	MW-2 04/30/08 East Side of Site Near Road	MW-3		MW-4 04/30/08 Filled Lagoon	MW-5	
				04/30/08	06/15/12		04/30/08	06/15/12
				West of 90 ⁰ Bend in Eastern Boundary Ditch			West of North Lagoon	
Metals (Continued)								
Chromium ■	50.0	96.6 N	106 N	11.8 N	NA	ND (4.0)	149 N	460.0
Cobalt	NC	ND (4.0)	33.0 N	ND (4.0)	"	ND (4.0)	72.1 N	216.0
Copper ■	200.0	85.8 N	141 N	ND (10.0)	"	ND (10.0)	218 N	953.0
Iron	300.0	39,900 N	102,000 N	9,140 N	"	13,800 N	165,000 N	617,000
Lead ■	25.0	25.8 N	29.4 N	ND (100)	"	ND (5.0)	45.5 N	127.0
Magnesium	35,000 G	66,900 E	65,600 E	189,000 E	"	315,000 E	376,000 E	666,000
Manganese	300.0	11,300 N	8,080 N	540 N	"	2,470 N	13,500 N	29,200
Mercury ■	0.7	ND (0.2)	ND (0.2)	ND (1.2)	"	ND (0.2)	ND (0.4)	1.7
Nickel ■	100.0	74.8 N	97.4 N	ND (10.0)	"	ND (10.0)	141 N	466.0
Potassium	NC	11,700 EN	21,000 EN	7,790 EN	"	6,550 EN	31,300 EN	28,800
Selenium ■	10.0	ND (15.0)	ND (15.0)	ND (15.0)	"	ND (15.0)	ND (15.0)	45.8
Silver ■	50.0	ND (3.0)	ND (3.0)	12.4 N	"	ND (3.0)	5.6 N	ND (6.9)
Sodium	20,000	50,400	19,700	78,500	"	12,800	139,000	159,000
Thallium	0.5 G	ND (100)	ND (100)	ND (20.0)	"	ND (20.0)	ND (20.0)	27.9
Vanadium	NC	53.0 N	132 N	17.9 N	"	ND (5.0)	207 N	508.0
Zinc ■	2,000 G	476.0 N	319 N	ND (200)	"	ND (10.0)	319 N	954.0
Miscellaneous Compounds (µg/L or ppb)								
Sulfate	250,000	434,000	32,100	1,210,000	NA	1,450,000	1,660,000	1,700,000
Sulfide	50.0 G	ND (1,000)	ND (1,000)	2,470,000	"	46,000	1,590,000	43.0
pH (Standard Units)	6.5-8.5	7.09	7.57	7.63	6.47	7.85	6.53	6.63

Notes:

* = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

Table 2-12A
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes (Continued):

E = Estimated concentration due to the presence of interference (inorganics).

G = Guidance value.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

Yellow shaded values exceed the NYSDEC groundwater standards or guidance values.

Table 2-12B
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-6 04/30/08 Northwest of North Lagoon	MW-12 04/30/08 Northeast of North Lagoon	TPMW-3 06/15/12 Storage Tank Spill Area				
Volatile Organic Compounds (µg/L or ppb)								
Acetone	50 G	7.4	4.0 J	ND (5.0)				
Benzene	1.0	ND (1.0)	ND (1.0)	1.2 J				
2-Butanone	50 G	ND (5.0)	ND (5.0)	ND (5.0)				
Carbon Disulfide	NC	ND (1.0)	ND (1.0)	14.0				
Chlorobenzene	5.0	ND (1.0)	ND (1.0)	ND (5.0)				
cis-1,2-Dichloroethene	5.0	ND (1.0)	ND (1.0)	ND (5.0)				
1,2-Dichloroethane	0.6	ND (1.0)	ND (1.0)	2.7 J				
1,2-Dichloropropane	1.0	ND (1.0)	ND (1.0)	13.0				
Ethylbenzene	5.0	ND (1.0)	ND (1.0)	34.0				
Isopropylbenzene	5.0	ND (1.0)	ND (1.0)	1.0 J				
n-Propylbenzene	5.0	NA	NA	2.4 J				
Toluene	5.0	ND (1.0)	ND (1.0)	ND (5.0)				
1,2,4-Trichlorobenzene	5.0 G	ND (1.0)	ND (1.0)	ND (5.0)				
1,2,4-Trimethylbenzene	5.0	NA	NA	19.0				
1,3,5-Trimethylbenzene	5.0	NA	NA	5.4				
Xylene (Total)	5.0	ND (3.0)	ND (3.0)	31.0				
Semivolatile Organic Compounds (µg/L or ppb)								
Acenaphthene (PAH)	20 G	NA	ND (5.0)	6.0 J				
Carbazole	NC	"	ND (5.0)	2.3 J				
Dibenzofuran	NC	"	ND (5.0)	2.9 J				
2,4-Dichlorophenol	5.0	"	ND (5.0)	1.9 J				
Fluorene (PAH)	50 G	"	ND (5.0)	2.5 J				
2-Methylnaphthalene	NC	"	ND (5.0)	13.0				
Naphthalene (PAH)	10 G	"	ND (5.0)	190 E				
Phenanthrene (PAH)	50 G	"	ND (5.0)	2.2 J				

Table 2-12B
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-6 04/30/08 Northwest of North Lagoon	MW-12 04/30/08 Northeast of North Lagoon	TPMW-3 06/15/12 Storage Tank Spill Area				
Pesticides (µg/L or ppb)								
Aldrin	ND	ND (0.047)	ND (0.050)	ND (0.050)				
alpha-BHC	0.01	ND (0.047)	ND (0.050)	0.10 P				
beta-BHC	0.04	ND (0.047)	ND (0.050)	ND (0.050)				
delta-BHC	0.04	ND (0.047)	ND (0.050)	ND (0.050)				
gamma-BHC (Lindane)	0.05	ND (0.047)	ND (0.050)	ND (0.050)				
Chlordane	0.05	0.040 J	ND (0.050)	ND (0.050)				
4,4'-DDD	0.3	0.022 J	ND (0.050)	0.25				
4,4'-DDE	0.2	0.034 J	ND (0.050)	ND (0.10)				
4,4'-DDT	0.2	ND (0.047)	ND (0.050)	ND (0.10)				
Dieldrin	0.004	0.032 J	ND (0.050)	ND (0.10)				
Endosulfan (I)	NC	ND (0.047)	ND (0.050)	ND (0.050)				
Endosulfan (II)	NC	0.029 J	ND (0.050)	0.18 P				
Endrin	ND	ND (0.047)	ND (0.050)	ND (0.10)				
Endrin Ketone	5.0	ND (0.047)	ND (0.050)	ND (0.10)				
Heptachlor	0.04	ND (0.047)	ND (0.050)	ND (0.050)				
Heptachlor Epoxide	0.03	ND (0.047)	ND (0.050)	0.11				
Methoxychlor	35.0	ND (0.047)	ND (0.050)	ND (0.50)				
Metals (µg/L or ppb)								
Aluminum	NC	62,100 N	269,000 N	236,000				
Antimony ■	3.0	ND (20.0)	ND (20.0)	ND (9.3)				
Arsenic ■	25.0	20.5 N	82.1 N	103.0				
Barium	1,000	569 N	2,700 N	782.0				
Beryllium ■	3.0 G	3.5 N	11.7 N	12.7				
Cadmium ■	5.0	2.1	ND (1.0)	21.4				
Calcium	NC	1,160,000	1,620,000	655,000				

Table 2-12B
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Sample Number Date Sampled Sample Location	Ground Water Standard *	MW-6 04/30/08 Northwest of North Lagoon	MW-12 04/30/08 Northeast of North Lagoon	TPMW-3 06/15/12 Storage Tank Spill Area				
Metals (Continued)								
Chromium ■	50.0	89.9 N	435 N	247.0				
Cobalt	NC	14.4 N	178 N	61.8				
Copper ■	200.0	112 N	467 N	868.0				
Iron	300.0	83,000 N	381,000 N	892,000				
Lead ■	25.0	27.4 N	107 N	125.0				
Magnesium	35,000 G	272,000 E	213,000 E	185,000				
Manganese	300.0	4,610 N	16,400 N	25,200				
Mercury ■	0.7	0.99	2.5	0.81				
Nickel ■	100.0	75.8 N	388 N	158.0				
Potassium	NC	16,700 EN	43,200 EN	49,600				
Selenium ■	10.0	ND (15.0)	ND (15.0)	15.7 B				
Silver ■	50.0	ND (3.0)	ND (3.0)	ND (6.9)				
Sodium	20,000	102,000	10,200	31,900				
Thallium	0.5 G	ND (200)	ND (200)	26.0				
Vanadium	NC	107 N	497 N	371.0				
Zinc ■	2,000 G	194 N	959 N	1,140				
Miscellaneous Compounds (µg/L or ppb)								
Sulfate	250,000	2,570,000	1,650,000	3,400,000				
Sulfide	50.0 G	ND (1,000)	1,200	2,100				
pH (Standard Units)	6.5-8.5	7.29	7.07	5.69				

Notes:

* = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

Table 2-12B
Analytical Results for Groundwater Samples that Represent Remaining Contamination
Former Barker Chemical Site, Site No. 932119
Somerset, New York



**Department of
Environmental
Conservation**

Notes (Continued):

E = Estimated concentration due to the presence of interference (inorganics).

G = Guidance value.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

N = Spike sample recovery is not within the quality control limits.

NA = Not analyzed.

NC = No criteria.

ND = Indicates that the compound was not detected at the method detection limit specified in parentheses.

P = >25% difference between the analytical results on two GC columns. The lower value is reported.

PAH = Polycyclic aromatic hydrocarbon.

Yellow shaded values exceed the NYSDEC groundwater standards or guidance values.

Table 4-2
Micro-Well Construction Summary
Former Barker Chemical Site, Site No. 932119
Somerset, New York



Well Number	New York State Plane Coordinates		Ground Surface Elevation (ft. amsl)	Top of Riser Elevation (ft. amsl)	Total Boring Depth (feet)	Sandpack Interval (ft. bgs)	Sandpack Interval (ft. amsl)	Well Screen Interval (ft. bgs)	Well Screen Interval (ft. amsl)	Monitored Water-Bearing Zone
	Easting (x)	Northing (y)								
1660 Niagara Street (Site No. C915311)										
MW-1	1153874.4000	1211866.7000	496.58	498.69	7.0	3.0 to 7.0	493.58 to 489.58	4.0 to 6.0	492.58 to 490.58	(see note 1)
MW-2	1154126.4000	1211858.5000	496.08	499.80	6.2	3.0 to 6.2	493.08 to 489.88	4.0 to 6.0	492.08 to 490.08	(see note 1)
MW-3	1154137.2000	1212308.1000	492.47	496.09	9.8	4.0 to 9.8	488.47 to 482.67	5.0 to 9.0	487.47 to 483.47	glacial till
MW-4	1153939.5000	1212192.1000	497.95	501.03	10.5	3.0 to 10.5	494.95 to 487.45	3.5 to 10.5	494.45 to 487.45	(see note 2)
MW-5	1153886.5000	1212328.9000	496.08	499.11	13.2	2.5 to 13.2	493.58 to 482.88	3.0 to 13.0	493.08 to 483.08	glacial till
MW-6	1153909.4000	1212532.6000	496.60	500.48	7.5	3.0 to 7.5	493.60 to 489.10	4.0 to 7.5	492.60 to 489.10	glacial till
MW-11	1153968.3000	1212595.2000	495.92	499.75	8.0	3.0 to 8.0	492.92 to 487.92	4.0 to 7.0	491.92 to 488.92	glacial till
MW-12	1154063.6000	1212530.0000	494.49	498.05	8.0	3.0 to 8.0	491.49 to 486.49	4.0 to 8.0	490.49 to 486.49	glacial till

Notes:

Horizontal coordinates are relative to the State Plane New York West Zone of the North American Datum (NAD) of 1983.

ft. amsl = feet above mean sea level.

ft. bgs = Feet below ground surface.

(1) = glacial till and weathered bedrock.

(2) = lime-like waste, lagoon sludge and glacial till.

Orange shaded coordinates are not reliable because the Percentage of Dilution of Position (PDOP) > 9%.