

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSS-01-D	SWSB-01	SWSS-02-D	SWSB-02	SWSS-03-D	SWSB-03	SWSS-04-D	SWSB-04	SWSS-05-D	SWSB-05	SWSS-06-D	SWSB-06	SWSS-07-D
VOCs														
Benzene	291	----	U	----	U	----	U	----	U	----	U	----	U	----
m,p-Xylenes (total)	5813	----	U	----	U	----	U	----	U	----	J	----	U	----
SVOCs														
Phenol	145	----	U	----	J	----	U	----	U	----	U	----	U	----
Naphthalene	5600	----	J	----	U	----	U	----	U	----	J	----	U	6300
Dimethylphthalate	9689	----	U	----	U	----	U	----	J	----	U	----	J	U
Phenanthrene	68892	----		----	U	----	J	----	J	----	J	----	J	69000
Fluoranthene	68892	----		----		----	J	----	J	----	J	52000	70000	U
Benzo(a)anthracene	620	----		3700	1300	630	J	----	J	660	J	2800	J	19000
Chrysene	1938	----		3500			J	----	J	----	J	4300	J	15000
bis(2-Ethylhexyl) phthalate	35000	----	U		U	J	----	J	U	----	U	U	J	20000
Benzo(b)fluoranthene	620	----	J	2500	1400	----	J	----	J	1500	J	3000	J	1100
Benzo(k)fluoranthene	5329	----		----	----	J	----	J	J	----	J	----	J	10000
Benzo(a)pyrene	62	610		2900	1100	660	J	240	J	320	J	1000	J	120
Indeno(1,2,3-cd)pyrene	620	----		1500	690	----	J	----	J	1400	J	3300	J	1200
Dibenz(a,h)anthracene	49	120	J	520	200	J	----	U	51	J	60	J	----	U
P/PCBs														
Heptachlor	110	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	UJ
Heptachlor epoxide	53	----	R	----	UJ	----	R	----	UJ	----	UJ	----	R	UJ
Dieldrin	30	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	UJ
Endrin	97	----	J	----	UJ	----	J	----	UJ	----	J	1200	J	UJ
Aroclor-1016	390	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	UJ
Aroclor-1242	970	----	J	----	UJ	----	UJ	----	UJ	----	UJ	3400	J	UJ
Aroclor-1248	970	----	UJ	----	UJ	----	UJ	----	UJ	1200	J	----	J	17000
Aroclor-1254	110	470	J	----	UJ	360	J	200	J	----	J	3000	J	----
Aroclor-1260	970	1800	J	----	UJ	----	J	----	J	1300	J	----	J	3800
Inorganics														
Aluminum	7600	16000		15000		14400		14900		21100		17700		32200
Antimony	3.1	3.4	J	----	J	3.5	J	----	J	7	J	----	J	----
Arsenic	0.39	----	R	----	R	----	R	----	R	----	R	----	R	----
Beryllium	0.16	0.66		0.73		0.61		0.71		0.68		0.75		0.68
Cadmium	1	10.6		1.2		4.5		3.6		31.7		17.8		2
Chromium	10	48.1		20.2		31.4		28.4		51.2		20		137
Copper	25	----	R	----	R	----	R	----	R	----	R	----	R	----
Iron	2000	73500		30400		31500		35300		45000		32200		66700
Lead	400	----	R	----	R	----	R	----	R	----	R	----	R	----
Manganese	180	757		610		592		794		720		733		870
Mercury	0.1	2.4		4.3		1.5		0.3		2		0.23		2.6
Nickel	13	66.1		28		40.2		35.8		61.8		27.7		145
Selenium	2.76	5.1		2.1	J	4.4	----	J	2.3	J	----	U	4.8	----
Thallium	1	2.6	J	2.3	J	1.9	J	2.2	J	2.4	J	1.8	J	3.1
Vanadium	8	65.8		26.1		33.5		30.1		66		25.9		142
Zinc	20	3020		271		493		312		990		108		2650

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSB-07	SWSS-08-S	SWSB-08	SWSS-09-D	SWSB-09	SWSS-10-D	SWSB-10	SWSS-11-D	SWSB-11	SWSS-12-D	SWSB-12	SWSS-13-D
VOCs													
Benzene	291	----	J	----	U	----	J	----	U	----	U	----	U
m,p-Xylenes	5813	----	U	----		----	J	55000	J	----	U	----	J
SVOCs													
Phenol	145	----	U	----	U	----	UJ	----	U	----	U	----	U
Naphthalene	5600	----	U	----	U	----	J	8000	J	----	U	----	J
Dimethylphthalate	9689	----	U	----	J	----	UJ	----	U	----	U	----	U
Phenanthrene	68892	----	J	----	J	----	J	----	J	----	J	----	J
Fluoranthene	68892	----	J	----	J	----	J	----	J	----	J	----	J
Benzo(a)anthracene	620	----	J	650	J	----	J	----	J	3600	11000	930	J
Chrysene	1938	----	J	----	J	----	J	----	J	4100	11000	----	J
bis(2-Ethylhexyl) phthalate	35000	----	U	----		----	J	----	J	----		280000	----
Benzo(b)fluoranthene	620	----	J	770	J	----	J	990	J	----	J	2800	J
Benzo(k)fluoranthene	5329	----	J	----	J	----	J	----	J	6200	7200	1200	J
Benzo(a)pyrene	62	330	J	770	J	320	J	1100	J	610	J	3300	J
Indeno(1,2,3-cd)pyrene	620	----	J	850	J	----	J	1200	J	----	J	2200	J
Dibenz(a,h)anthracene	49	----	J	250	J	----	U	280	J	----	U	700	J
P/PCBs													
Heptachlor	110	----	UJ	----	J	----	UJ	----	J	----	J	120	J
Heptachlor epoxide	53	----	UJ	----	R	81	J	----	R	210	J	370	J
Dieldrin	30	----	UJ	----	UJ	56	J	----	UJ	130	J	----	UJ
Endrin	97	----	UJ	460	J	----	UJ	----	UJ	510	J	----	J
Aroclor-1016	390	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ
Aroclor-1242	970	----	UJ	----	UJ	1600	J	----	UJ	4000	J	----	UJ
Aroclor-1248	970	----	UJ	4600	J	----	UJ	2600	J	----	UJ	2200	J
Aroclor-1254	110	----	UJ	6000	J	1400	J	3700	J	2900	J	6600	J
Aroclor-1260	970	----	UJ	1800	J	----	J	2000	J	1600	J	1700	J
Inorganics													
Aluminum	7600	9220		37500		14500		22500		14800		23600	
Antimony	3.1	----	J	----	R	128		----	R	----	UR	----	UR
Arsenic	0.39	----	R	----	R	----	R	19.6		21		8.8	
Beryllium	0.16	0.51	J	0.51		0.63		0.88		0.77		0.68	
Cadmium	1	1.3		14.3		58.3		18.6		32.2		7	
Chromium	10	15.1		110		25.9		72.6		32.4		60.7	
Copper	25	----	R	----	R	----	R	869		1170		3040	
Iron	2000	23400		65600		36800		57700		61900		49200	
Lead	400	----	R	----	R	4050	J	755	J	923	J	636	J
Manganese	180	462		775		840		702		763		804	
Mercury	0.1	0.32		2.6		0.29		2.3		0.51		1.6	
Nickel	13	18.2		175		35.6		118		843		112	
Selenium	2.76	----	J	4.6		----	J	5		13		4.7	
Thallium	1	1.6	J	2.3	J	2.2	J	2.4	J	2.8		2.4	J
Vanadium	8	17.6		66.6		24.6		77.2		25.7		112	
Zinc	20	107		5500		402		4360	J	16200	J	1720	J

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSS-13-D-DUP		SWSB-13		SWSS-14-S		SWSB-14		SWSS-15-S		SWSB-15		SWSS-16-D		SWSB-16		SWSS-17-S		SWSB-17		SWSS-18-D		SWSB-18	
VOCs																									
Benzene	291	----	UJ	----		----	U	----	U	----	U	280	J	----	U	----	U	----	U	----		----		----	U
m,p-Xylenes	5813	----	UJ	----		----	U	----	U	----	U	----		----	U	----	U	----	U	----		----		----	U
SVOCs																									
Phenol	145	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ
Naphthalene	5600	----	UJ	7400	J	----	UJ	----	UJ	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	UJ
Dimethylphthalate	9689	----	UJ	----	UJ	----	UJ	----	UJ	17000	J	----	UJ	----	J	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ
Phenanthrene	68892	----	J	59000	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	UJ
Fluoranthene	68892	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J
Benzo(a)anthracene	620	----	J	24000	J	2800	J	4900	J	4200	J	3500	J	25000	J	2100	J	1900	J	1400	J	2500	J	----	J
Chrysene	1938	----	J	24000	J	2800	J	4700	J	4900	J	3700	J	23000	J	2100	J	2100	J	1700	J	2800	J	----	J
bis(2-Ethylhexyl) phthalate	35000	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J
Benzo(b)fluoranthene	620	1100	J	12000	J	3000	J	5700	J	3800	J	2800	J	22000	J	1800	J	2900	J	1200	J	2400	J	----	J
Benzo(k)fluoranthene	5329	----	J	12000	J	----	J	----	J	----	J	----	J	17000	J	----	J	----	J	----	J	----	J	----	J
Benzo(a)pyrene	62	1300	J	22000	J	3000	J	5100	J	4300	J	2800	J	19000	J	2000	J	2200	J	1100	J	2200	J	500	J
Indeno(1,2,3-cd)pyrene	620	1200	J	8500	J	2000	J	2900	J	3700	J	1900	J	10000	J	1100	J	1800	J	800	J	1300	J	----	UJ
Dibenz(a,h)anthracene	49	----	UJ	2800	J	510	J	800	J	740	J	620	J	3100	J	380	J	660	J	----	UJ	370	J	----	UJ
P/PCBs																									
Heptachlor	110	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	J	----	UJ	----	U	----	J	----	J
Heptachlor epoxide	53	----	R	----	R	----	R	----	R	----	R	----	R	----	R	----	J	----	R	----	U	----	R	----	R
Dieldrin	30	----	UJ	81	J	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	U	----	U	----	U
Endrin	97	----	UJ	----	J	----	J	----	R	400	J	----	UJ	380	J	----	J	----	R	----	J	----	J	----	J
Aroclor-1016	390	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	U	----	U	----	U
Aroclor-1242	970	----	UJ	1300	J	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	J	----	UJ	1700	----	U	----	U	----
Aroclor-1248	970	1800	J	----	UJ	1600	J	2100	J	2400	J	1300	J	1700	J	----	UJ	2900	----	U	----	J	----	J	----
Aroclor-1254	110	3000	J	1700	J	3400	J	2700	J	5000	J	1500	J	2400	J	170	J	4100	----	1900	----	510	----	280	J
Aroclor-1260	970	1800	J	1100	J	1200	J	----	J	1700	J	----	J	1900	J	----	J	1300	J	1400	----	U	----	----	----
Inorganics																									
Aluminum	7600	18000		16300		26800		21200		28500		16300		25400		17300		91400		19600		21000	J	17100	J
Antimony	3.1	----	UR	----	UR	----	UR	----	UR	----	UR	----	UR	----	UR	----	UR	----	R	----	UR	----	J	----	J
Arsenic	0.39	22		8.1		16.5		10		10.8		5.9		14.6		9.7		9.1		13.5		5.1		4.8	
Beryllium	0.16	0.64		0.65		0.67		0.62		0.59		0.45	J	0.87		0.93		0.64		0.7		0.81	J	0.58	J
Cadmium	1	11.1		7.6		12.7		5.8		9.8		3.4		10.9		----	J	11.7		7.2		2		1.3	
Chromium	10	50.7		30.1		72.7		53.2		94.7		32.5		80.2		40.2		126		50		30.9	J	27.3	J
Copper	25	513		399		1040		769		1230		451		833		134		6850		651		291	J	262	J
Iron	2000	61100		37100		73300		44300		66600		36200		86300		88900		74200		47800		31100		23400	
Lead	400	1560	J	446	J	1310	J	888	J	1560	J	743	J	976	J	----	J	6790	J	2360	J	445	----	----	
Manganese	180	1080		697		1170		836		855		494		934		1310		969		761		696		589	
Mercury	0.1	2.1		0.41		1.7		0.98		1.7		0.72		1.3		0.25		1.8		0.85		1.1	J	0.23	J
Nickel	13	109	J	48.4		119		85.1		152		44.5		105		44.7		209		71.9		37.4		25.1	
Selenium	2.76	4.8		3.4	J	5.8		3.9		6.2		2.7	J	7.7		7.7		6.7		4.6		2.1	J	----	U
Thallium	1	3.2		1.7	J	3.6		2.1	J	2.7		1.6	J	3.3		4.1		2.5	J	2.1	J	2.2	J	1.9	J
Vanadium	8	115		57.6		107		80		116		42.5		86.4		32.3		87.7		44.5		38.5		35.3	
Zinc	20	2090	J	1900	J	2130	J	1670	J	2420	J	1100	J	1640	J	183	J	4940	J	2340	J	466	J	274	J

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSS-19-D	SWSB-19	SWSS-20-S	SWSB-20	SWSS-21-D	SWSB-21	SWSB-21-DUP	SWSS-22-D	SWSB-22	SWSS-23-D	SWSB-23	SWSS-24-D	SWSB-24
VOCs														
Benzene	291	----	U	----	U	----	U	----	U	----	U	----	U	----
m,p-Xylenes	5813	----	U	----	U	----	U	----	U	----	U	----	U	----
SVOCs														
Phenol	145	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----	UJ	----
Naphthalene	5600	----	UJ	----	J	----	UJ	----	UJ	----	J	----	UJ	----
Dimethylphthalate	9689	----	UJ	----	UJ	----	UJ	----	UJ	----	J	----	UJ	----
Phenanthrene	68892	----	J	----	J	----	J	----	J	----	J	----	J	----
Fluoranthene	68892	----	J	----	J	----	J	----	J	----	J	----	J	----
Benzo(a)anthracene	620	4300	J	1000	J	----	J	4700	J	2500	J	----	J	8300
Chrysene	1938	4200	J	----	J	----	J	4100	J	2200	J	----	J	6800
bis(2-Ethylhexyl) phthalate	35000	----	J	----	J	----	J	----	J	----	J	----	J	----
Benzo(b)fluoranthene	620	3700	J	980	J	----	J	4400	J	1800	J	----	J	5200
Benzo(k)fluoranthene	5329	4000	J	----	J	----	J	----	J	----	J	----	J	4200
Benzo(a)pyrene	62	2900	J	840	J	480	J	3200	J	1900	J	400	J	3900
Indeno(1,2,3-cd)pyrene	620	1500	J	----	J	----	J	2300	J	1400	J	----	J	2800
Dibenz(a,h)anthracene	49	550	J	130	J	----	UJ	580	J	400	J	----	UJ	910
P/PCBs														
Heptachlor	110	----	J	----	U	----	U	----	J	----	J	----	J	----
Heptachlor epoxide	53	----	R	----	R	----	R	----	R	----	R	----	R	----
Dieldrin	30	----	UJ	----	U	----	U	----	U	----	U	----	U	----
Endrin	97	----	R	----	U	----	J	----	J	----	R	----	J	----
Aroclor-1016	390	----	UJ	----	U	----	U	----	U	----	U	----	U	----
Aroclor-1242	970	----	UJ	----	U	----	U	----	U	----	U	----	U	----
Aroclor-1248	970	2100	----	----	1900	----	U	1100	----	----	2800	----	U	3100
Aroclor-1254	110	3000	----	260	J	2100	----	1300	J	1200	J	380	J	600
Aroclor-1260	970	----	J	----	----	J	----	----	----	----	1600	J	7900	1100
Inorganics														
Aluminum	7600	21700	J	18700	J	31500	J	10600	J	55700	J	24000	J	42900
Antimony	3.1	5.6	J	----	J	10.5	J	293	J	7.1	J	5.2	J	8.5
Arsenic	0.39	13	----	8.1	----	11.6	----	73.1	----	7	----	8.3	----	9.1
Beryllium	0.16	0.76	J	0.85	J	0.61	J	0.59	J	0.71	J	0.83	J	0.81
Cadmium	1	7.9	----	2.3	----	17.7	----	13.2	----	9.5	----	4	----	7.9
Chromium	10	106	J	38.7	J	96.6	J	65.4	J	121	J	46.7	J	77
Copper	25	667	J	192	J	2150	J	432	J	4740	J	480	J	1770
Iron	2000	108999	----	82000	----	68400	----	36500	----	53800	----	38500	----	45900
Lead	400	1160	----	1050	----	2320	----	9970	----	1280	----	581	----	988
Manganese	180	1180	----	860	----	768	----	645	----	737	----	801	----	901
Mercury	0.1	1.6	J	0.31	J	1.4	J	0.76	J	1.8	J	0.45	J	0.93
Nickel	13	122	----	55.6	----	112	----	55.9	----	133	----	45.5	----	77.1
Selenium	2.76	9.2	----	5.3	----	5.8	----	4.1	----	4.3	----	2.7	----	3.1
Thallium	1	3.7	----	2.7	----	2.5	----	2.3	----	2.4	----	1.9	----	2.7
Vanadium	8	97.5	----	34.5	----	51.6	----	22.4	----	81.1	----	34.9	----	55.3
Zinc	20	1300	J	291	J	2060	J	633	J	3060	J	647	J	1870

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSS-25-D	SWSB-25	SWSS-26-S	SWSB-26	SWSS-27-D	SWSB-27	SWSS-28-D	SWSB-28	SWSS-29-D	SWSB-29	SWSS-30-S	SWSB-30	SWSS-31-D
VOCs														
Benzene	291	----	U	----	U	----	J	----	U	----	U	----	U	----
m,p-Xylenes	5813	----	U	----	U	----	U	19000	----	U	----	U	----	U
SVOCs														
Phenol	145	----	U	----	U	----	U	----	U	----	U	----	U	----
Naphthalene	5600	----	U	----	J	----	U	13000	----	J	10000	----	U	----
Dimethylphthalate	9689	----	----	U	----	U	----	J	----	U	----	U	----	U
Phenanthrene	68892	----	----	----	81000	----	----	----	J	----	----	----	U	----
Fluoranthene	68892	----	----	J	----	----	----	----	J	----	----	----	----	J
Benzo(a)anthracene	620	660	1000	J	1900	7500	2400	2200	1800	----	1200	----	1600	----
Chrysene	1938	----	----	J	2100	6800	2400	2500	1900	----	J	1500	----	1700
bis(2-Ethylhexyl) phthalate	35000	----	----	----	----	----	----	----	----	J	----	----	J	----
Benzo(b)fluoranthene	620	1300	950	J	1800	3500	J	4300	3000	2700	----	J	1400	----
Benzo(k)fluoranthene	5329	----	U	----	J	----	J	U	----	----	----	J	----	----
Benzo(a)pyrene	62	710	890	J	2000	3000	J	2700	2800	2600	250	J	1600	470
Indeno(1,2,3-cd)pyrene	620	----	J	----	U	1200	J	1200	J	1300	1400	J	1500	----
Dibenz(a,h)anthracene	49	91	J	----	U	420	J	----	U	400	J	520	J	470
P/PCBs														
Heptachlor	110	----	U	----	U	----	U	----	U	----	U	----	U	----
Heptachlor epoxide	53	----	U	----	U	----	U	----	U	----	U	----	U	----
Dieldrin	30	----	U	----	J	----	U	----	U	----	U	----	U	----
Endrin	97	----	U	----	J	----	U	----	U	----	U	----	U	----
Aroclor-1016	390	----	U	----	U	----	U	----	U	2200	----	U	----	U
Aroclor-1242	970	----	U	----	U	----	U	----	U	----	U	----	U	----
Aroclor-1248	970	----	U	----	U	2300	J	2800	----	U	----	U	----	U
Aroclor-1254	110	5100	1000	J	1300	2000	3300	3300	3800	----	J	540	J	1000
Aroclor-1260	970	----	U	----	U	1200	1600	----	1300	J	----	U	----	J
Inorganics														
Aluminum	7600	18000	12000	23000	89000	32000	28000	27000	15000	25000	----	21000	14000	32000
Antimony	3.1	----	U	----	U	15	52	34	15	19	U	17	11	19
Arsenic	0.39	7	6.7	13	16	13	11	12	5.4	11	19	8.6	7.4	9.2
Beryllium	0.16	0.59	0.58	----	U	----	U	----	U	0.57	----	U	0.6	0.59
Cadmium	1	6.1	2.3	12	21	13	6.9	11	1.3	12	9.2	5.8	----	7.4
Chromium	10	40	22	83	230	89	79	91	26	64	39	50	28	73
Copper	25	620	190	1300	5300	3100	1400	1300	310	1300	340	720	220	3400
Iron	2000	52000	32000	110000	78000	110000	49000	80000	38000	57000	45000	53000	36000	76000
Lead	400	770	550	3700	3200	5400	1300	2900	500	2200	1100	1500	----	3900
Manganese	180	790	760	920	1200	1100	880	970	740	720	350	780	740	930
Mercury	0.1	0.8	0.34	1.3	0.88	2.4	1.3	2.7	0.33	2.6	1.2	1.6	0.35	1.9
Nickel	13	72	47	170	2600	4600	150	210	48	120	49	75	34	170
Selenium	2.76	4.2	----	U	6.5	5.8	7.9	----	U	5.7	----	U	4.8	5.8
Thallium	1	----	U	----	U	----	U	----	U	----	U	----	U	----
Vanadium	8	36	22	97	140	120	380	150	36	89	23	63	22	170
Zinc	20	970	370	3500	4400	5200	1800	3100	630	2400	1100	1900	400	3700

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSB-31		SWSB-31-Dup		SWSS-32-D		SWSB-32		SWSS-33-D		SWSB-33		SWSS-34-S		SWSB-34		SWSS-35-D		SWSS-35-D-Dup		SWSB-35	
VOCs																							
Benzene	291	----	U	----	J	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
m,p-Xylenes	5813	----		----		----	U	----	U	----	U	----	J	----	U	----	U	----	U	----	U	----	U
SVOCs																							
Phenol	145	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Naphthalene	5600	----	J	----	J	----		----	U	----	J	----	J	----	J	----	J	----	U	----	J	----	U
Dimethylphthalate	9689	----	U	----	U	----	J	----	U	----	J	----	U	----	J	----	U	----		----		----	U
Phenanthrene	68892	----	J	----	J	----		----		----		----		----		----		----		----		----	
Fluoranthene	68892	----	J	----	J	----	J	----		----		----		----		----		----		----		----	
Benzo(a)anthracene	620	----	U	----	U	1300		990	J	1900		1500		2800		1100		6000		4600		1000	
Chrysene	1938	----	U	----	U	1500		----	J	2100		1600		3800		----		6900		5200		----	
bis(2-Ethylhexyl) phthalate	35000	----		----		37000		----		----		----		----		U		----		----		----	
Benzo(b)fluoranthene	620	----	U	----	U	1800		1100	J	3200		1300		4300		880		7200		5900		1200	
Benzo(k)fluoranthene	5329	----	U	----	U	----		----	J	----		----		----		----		4100		----		----	
Benzo(a)pyrene	62	----	U	----	U	1600		1200		2300		1400		3800		1000		7600		5500		1200	
Indeno(1,2,3-cd)pyrene	620	----	UJ	----	UJ	1100	J	1000	J	2100		990		2100		730		5100		4000		820	
Dibenz(a,h)anthracene	49	----	UJ	----	UJ	300	J	----	UJ	550		310	J	620		220	J	1400		1100		230	J
P/PCBs																							
Heptachlor	110	----	U	----	UJ	----	J	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Heptachlor epoxide	53	----	U	----	UJ	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Dieldrin	30	----	U	----	UJ	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Endrin	97	----	U	----	UJ	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Aroclor-1016	390	----	U	----	UJ	----	U	----	U	----	U	----	U	----	U	----	U	1200		1500		----	U
Aroclor-1242	970	----	U	----	UJ	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Aroclor-1248	970	----	U	----	UJ	----	U	----	U	----	U	----	U	1500	J	----	U	----	U	----	U	----	U
Aroclor-1254	110	1200		----	J	3100		3100		2500		150		4500		----	J	6900		9400		----	U
Aroclor-1260	970	----		----	UJ	----	U	----	U	----		----	U	1100		----	U	----	U	2100	J	----	U
Inorganics																							
Aluminum	7600	14000		14000		25000		28000		27000		12000		26000		13000		29000		37000		11000	
Antimony	3.1	12		9		40		21		26		----	U	20		----	U	30		33		----	U
Arsenic	0.39	10		10		12		11		11		5.9		12		6.2		15		16		4.1	
Beryllium	0.16	----	U	----	U	----	U	----	U	----	U	0.64		----	U	0.63		----	U	----	U	----	U
Cadmium	1	4.2		3.5		9.9		9		12		----	U	9.9		----		20		23		----	
Chromium	10	61		59		86		81		90		18		91		20		120		120		17	
Copper	25	900		480		1500		1400		1600		86		1300		89		1700		3200		53	
Iron	2000	80000		94000		89000		63000		100000		28000		82000		39000		68000		110000		26000	
Lead	400	8300		8900		8100		3400		9300		----		4100		----		2600		3300		----	
Manganese	180	850		840		900		820		1100		630		920		590		900		1100		580	
Mercury	0.1	0.69		0.64		2.4		3.6		2.5		0.8		2.7		0.14		3.9		3.2		0.57	
Nickel	13	120		95		180		490		180		27		160		31		190		190		24	
Selenium	2.76	4.8		5.3		5.5		4.3		11		----	U	5.5		----	U	----	U	5.3		----	U
Thallium	1	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U	----	U
Vanadium	8	250		180		150		220		160		18		160		24		180		230		19	
Zinc	20	4600		3400		3900		3100		4800		230		3200		240		4000		6800		200	

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	SSSSC	SWSS-36-D	SWSB-36	SWSS-37-D	SWSB-37
VOCs					
Benzene	291	----- U	----- U	----- U	----- U
m,p-Xylenes	5813	----- J	----- J	----- J	----- J
SVOCs					
Phenol	145	----- U	1600	----- U	----- U
Naphthalene	5600	----- U	-----	----- U	----- J
Dimethylphthalate	9689	----- U	-----	----- J	----- U
Phenanthrene	68892	-----	-----	-----	-----
Fluoranthene	68892	-----	-----	-----	-----
Benzo(a)anthracene	620	6600	20000	2300	3300
Chrysene	1938	7500	20000	2700	3700
bis(2-Ethylhexyl) phthalate	35000	-----	-----	-----	-----
Benzo(b)fluoranthene	620	5600	19000	3100	6400
Benzo(k)fluoranthene	5329	3900	15000	-----	----- U
Benzo(a)pyrene	62	5700	22000	3000	4600
Indeno(1,2,3-cd)pyrene	620	3300	15000	2400	2900
Dibenz(a,h)anthracene	49	950	3300	600	780
P/PCBs					
Heptachlor	110	----- U	----- U	----- U	----- U
Heptachlor epoxide	53	----- U	----- U	----- U	----- U
Dieldrin	30	----- U	----- U	----- U	----- U
Endrin	97	----- U	----- U	----- U	----- U
Aroclor-1016	390	-----	470	----- J	510
Aroclor-1242	970	----- U	----- U	----- U	----- U
Aroclor-1248	970	----- U	----- U	----- U	----- U
Aroclor-1254	110	4300	3400	4600	4500
Aroclor-1260	970	-----	----- J	1300	1200
Inorganics					
Aluminum	7600	22000	24000	26000	23000
Antimony	3.1	12	16	16	30
Arsenic	0.39	12	11	13	10
Beryllium	0.16	----- U	----- U	0.55	----- U
Cadmium	1	11	9.6	12	9.6
Chromium	10	56	79	64	56
Copper	25	930	1200	1200	1100
Iron	2000	51000	57000	48000	46000
Lead	400	1200	1500	1500	2100
Manganese	180	880	850	860	800
Mercury	0.1	1.7	1.8	2.3	----- U
Nickel	13	92	130	160	120
Selenium	2.76	----- U	4.7	----- U	----- U
Thallium	1	----- U	----- U	----- U	----- U
Vanadium	8	92	200	760	170
Zinc	20	2600	2200	2500	2300

Table 1-9
Site-Wide Surface and Subsurface Soil Screening Criteria Exceedances
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Notes:

Indicator contaminants are bolded.

All VOC, SVOC, and P/PCB values are in micrograms per kilogram (ug/kg); inorganic values are in milligrams per kilogram (mg/kg)

Dup = duplicate

P/PCBs = pesticides and polychlorinated biphenyls

SWSB = site-wide soil boring subsurface soil sample (2-4 feet below ground surface)

SWSS = site-wide soil boring surface soil sample (S - 0-2 inches below ground surface; D - 0-12 inches below ground surface)

SSSSC = site-specific soil screening criteria

SVOCs = semivolatile organic compounds

VOCs = volatile organic compounds

Dashed cells indicate that the value does not exceed the SSSSC

J = Value is estimated due to exceeded quality control criteria.

R = rejected sample from laboratory.

U = non-detected value.