

Appendix V6-5B

Concentrations of Contaminants of Potential Concern
in Soil Samples Collected during the Baseline
Monitoring Program



Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	D06 (0-10)	D06 (10-20)	D10 (0-10)	D10 (10-20)	D20 (0-10)	D20 (10-20)	D21 (0-10)	D21 (10-20)	D29 (0-10)	D29 (10-20)	D32 (0-10)	D32 (10-20)	D38 (0-10)	D38 (10-20)	D43 (0-10)	D43 (10-20)
Date Sampled	15-Aug-10	15-AUG-10	15-AUG-10	15-AUG-10	16-AUG-10	16-AUG-10	16-AUG-10	16-AUG-10	17-AUG-10	17-AUG-10	17-AUG-10	17-AUG-10	19-AUG-10	19-AUG-10	19-AUG-10	19-AUG-10
ALS Sample ID	L929006-1	L929006-2	L929006-3	L929006-4	L929006-5	L929006-6	L929006-7	L929006-8	L929006-9	L929006-10	L929006-11	L929006-12	L929006-13	L929006-14	L929006-15	L929006-16
Physical Tests																
pH	6.09	6.69	6.13	7.05	7.35	7.67	5.17	5.56	6.45	6.17	5.09	5.44	5.17	5.69	7.15	7.64
Total Organic Carbon	1.36	0.71	0.6	0.2	11.1	4.25	3.74	2.25	4.08	3.43	1.02	1.09	0.71	0.19	4.2	3.21
Metals (mg/kg dry weight)																
Aluminum	15200	14300	7230	7250	10300	12200	21100	19500	18600	20900	8640	8250	3380	3630	16400	16000
Antimony	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	<5.0	<5.0	<5.0	5.6	<5.0	<5.0	<5.0	<5.0	<5.0	5.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium	82.7	76.2	21.8	29.2	81.4	39.7	112	107	100	121	39.7	44	12.8	15.4	93	102
Beryllium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	0.59	0.53	0.58	<0.50	<0.50	<0.50	<0.50	0.56	0.53
Bismuth	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Calcium	3040	3170	1780	2120	11100	7590	3760	3630	9020	7320	2270	2120	984	1270	9410	9000
Chromium	47.6	48.1	23.8	22.1	81.8	74.5	62.8	58.6	51.8	60.6	26.2	25.7	8.2	9.6	45.7	43.6
Cobalt	9.8	11.9	7.9	8.3	16.7	17.1	11.4	10.1	10.3	12.9	6.1	5.2	2.7	3.6	9.4	8.9
Copper	20.1	16.9	21.3	31.4	38.2	67.7	25.4	24.4	28.4	31	12.1	13.8	2.5	3.7	16.5	21.8
Iron	23200	23800	15100	15100	23600	26700	29000	27400	25500	30500	15300	13100	7800	8610	22800	21900
Lead	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Lithium	21.8	21.9	9.7	10	10	16.4	30.5	29.2	26.9	31.1	12.7	12.5	5.1	6	27.3	26.2
Magnesium	8480	7980	4710	4790	7790	10700	10900	10200	10000	11700	5280	4810	2040	2320	9550	9200
Manganese	243	340	212	192	790	619	255	225	358	368	132	116	68.3	84.3	248	246
Mercury	0.0094	<0.0050	0.0069	<0.0050	0.0543	0.0155	0.0159	0.01	0.0263	0.0141	0.0056	0.0082	<0.0050	<0.0050	0.0175	0.0108
Molybdenum	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nickel	24.7	25.2	15.2	16	53.5	48.3	31.1	28.6	26.2	32.5	14.6	14.1	<5.0	5.3	24.3	23.5
Phosphorus	395	413	235	269	715	321	602	552	536	516	478	456	125	211	406	356
Potassium	2950	2520	550	820	1110	1160	4390	3930	3330	3790	1220	1280	380	410	3960	3140
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	480	310	<200	<200	<200	<200	510	480	1030	730	240	250	<200	<200	630	640
Strontium	21.3	19.5	8.21	9.02	33.3	23.4	30	28	36.4	29.8	13	12.5	5.88	6.67	79.9	77.3
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	1180	1060	509	527	351	746	1440	1340	1210	1400	584	527	335	344	996	945
Uranium	1.37	1.32	0.297	0.37	0.378	0.774	1.63	1.62	1.03	1.47	0.748	0.735	0.249	0.332	0.837	0.988
Vanadium	51.2	50.9	32	32.8	46.3	50.3	64.3	60.2	53.8	64.6	31.8	29.2	19.1	20.9	47.2	47.2
Zinc	44.7	39.7	25.3	30.1	47.1	46.5	54.2	50.4	55.8	60.9	28.9	30.6	10.7	11.6	51	48.6

Notes:

(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	D54 (0-10)	D54 (10-20)	D57 (0-10)	D57 (10-20)	D59 (0-10)	D59 (10-20)	D61 (0-10)	D61 (10-20)	D70 (0-10)	D70 (10-20)	D72 (0-10)	D72 (10-20)	D76 (0-10)	D76 (10-20)	D108 (0-10)	D108 (10-20)
Date Sampled	21-AUG-10	21-AUG-10			22-AUG-10	22-AUG-10	22-AUG-10	22-AUG-10	23-AUG-10	23-AUG-10	24-AUG-10	24-AUG-10	24-AUG-10	24-AUG-10	27-AUG-10	27-AUG-10
ALS Sample ID	L929006-17	L929006-18	L929006-19	L929006-20	L929006-21	L929006-22	L929006-23	L929006-24	L929006-25	L929006-26	L929006-27	L929006-28	L929006-29	L929006-30	L929006-31	L929006-32
Physical Tests																
pH	5.28	5.79	5.91	6.16	6.7	7.05	6.26	6.3	6.03	6.15	4.53	5.09	4.96	5.67	5.68	5.6
Total Organic Carbon	19.3	36.4	4.77	2.4	0.53	0.26	5.92	1.26	2.76	1.68	2.59	2.54	3.27	1.64	5.64	4.31
Metals (mg/kg dry weight)																
Aluminum	626	2390	17400	19700	5000	3680	14200	11200	3580	3810	16600	16600	16700	8450	10200	9060
Antimony	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium	36	48.4	116	136	22.4	21.7	77.1	60	21.3	20.5	73.1	81.9	102	52.6	30.2	30.3
Beryllium	<0.50	<0.50	0.56	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<0.50	<0.50
Bismuth	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Calcium	11700	14000	4610	4580	2470	2410	6190	4210	1800	1740	3280	3150	2550	2260	3560	4940
Chromium	<2.0	5.8	53	62.4	17.5	13.8	41.3	34.7	9	9	47.1	47.9	39.9	22.8	24.3	23.7
Cobalt	3.6	5.8	11.5	13.2	6.2	4.9	7.2	6.6	<2.0	<2.0	6.4	6.6	8.4	5	9	6.4
Copper	5.6	9.1	23.8	26.5	22.1	16.2	13	12.6	5.9	4.7	28.6	30.4	26.2	12.7	20.9	23.7
Iron	4080	25200	25500	30300	10700	8910	19700	17300	6690	5160	19400	19200	22900	13800	18400	17100
Lead	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Lithium	<2.0	<2.0	26.2	31.8	8.6	5.7	21.8	18.3	6.4	7	18.8	20	21.9	12.6	14.6	7
Magnesium	2530	2100	10100	11500	3740	2370	7990	6340	1650	1810	6430	6590	7200	4210	5460	3400
Manganese	226	112	308	337	108	83.8	240	182	41.5	44.8	135	130	147	108	327	201
Mercury	0.158	0.0695	0.0165	0.0091	<0.0050	<0.0050	0.0201	0.0059	0.0099	<0.0050	0.0193	0.0116	0.0206	0.0065	0.0504	0.062
Molybdenum	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nickel	<5.0	15.1	28.1	34.4	15.2	10.5	20	16	<5.0	<5.0	17.4	18	20.8	10.9	15.9	12.8
Phosphorus	674	943	591	607	325	363	490	579	326	386	531	473	412	405	425	770
Potassium	830	<200	4370	4840	540	490	2890	2640	230	230	1810	1680	3110	1710	410	370
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	540	380	530	450	<200	<200	510	380	210	<200	290	250	290	220	<200	<200
Strontium	54.3	61.9	31.4	31.5	8.52	8.67	32	24.8	8.51	7.89	27.4	23.8	21.5	15.1	16.2	19.3
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	18.7	64.4	1200	1250	381	357	815	740	235	283	1080	992	977	646	719	454
Uranium	<0.050	0.219	1.88	1.97	0.345	0.38	1.1	1.27	0.344	0.393	1.63	1.71	1.12	0.79	0.428	0.798
Vanadium	<2.0	9.4	57.3	64.9	23.7	20.9	43.3	40.3	15.1	13.3	50.6	50.3	46	30.1	36	30.7
Zinc	26.5	9	50.9	59.1	18.4	15.5	57.3	33.7	9.6	8.9	34.6	35.4	46.3	22.9	38.6	26.7

Notes:

(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	D109 (0-10)	D109 (10-20)	D96 (0-10)	D96 (10-20)	D99 (0-10)	D99 (10-20)	D82 (0-10)	D82 (10-20)	D88 (0-10)	D88 (10-20)	D65 (0-10)	D65 (10-20)	D119 (0-10)	D119 (10-20)	D122 (0-10)	D122 (10-20)
Date Sampled	27-AUG-10	27-AUG-10	26-AUG-10	26-AUG-10	26-AUG-10	26-AUG-10	25-AUG-10	25-AUG-10	25-AUG-10	25-AUG-10	23-AUG-10	23-AUG-10	28-AUG-10	28-AUG-10	28-AUG-10	28-AUG-10
ALS Sample ID	L929006-33	L929006-34	L929006-35	L929006-36	L929006-37	L929006-38	L929006-39	L929006-40	L929006-41	L929006-42	L929006-43	L929006-44	L929006-45	L929006-46	L929006-47	L929006-48
Physical Tests																
pH	5.48	4.13	4.4	6.35	6.53	6.4	5.9	5.95	5.3	5.87	5.56	4.92	5.08	5.5	5.02	5.94
Total Organic Carbon	42.1	34.1	0.5	0.2	1.45	1.49	0.76	1.61	0.77	0.25	0.24	3.83	0.46	0.49	2.42	2.71
Metals (mg/kg dry weight)																
Aluminum	907	6910	2390	2300	16300	16600	3030	3480	3280	2910	2650	3670	2960	3480	6280	8800
Antimony	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium	24	33.7	9.3	9.5	104	105	17.8	23.1	18.3	19.1	16.6	18.1	21.3	28	35	46.1
Beryllium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bismuth	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Calcium	4630	2760	1110	1200	4250	4470	1620	1930	1270	1310	1440	1340	1230	1350	2070	2550
Chromium	<2.0	14.5	6.5	6.5	46.3	47.3	11.1	10.6	8.5	8.2	8.8	12	10.3	13.1	18.6	24.9
Cobalt	<2.0	2.3	<2.0	<2.0	8.8	10.2	2.2	2.6	2.7	3	<2.0	2.6	<2.0	2.5	3.2	3.7
Copper	4.3	4.9	1.6	1.3	18.8	17.7	4.4	7	5.7	18.4	5.2	4.8	2.3	5.7	6.9	8.8
Iron	1200	9750	4620	4700	23100	22800	7960	8310	7500	7100	6310	7460	7600	7890	9940	13000
Lead	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Lithium	<2.0	2.7	4	3.8	21.1	22	5.3	5.5	6.5	4.9	4.6	5.2	4.9	6.7	10.2	12.2
Magnesium	1100	1390	1380	1400	7720	8000	1760	1920	2000	1740	1620	2450	1960	2270	3070	3910
Manganese	10.4	24.9	59.7	47.1	202	249	56.4	63.8	59.5	62.3	48.8	57.9	54.8	60.6	70.9	92
Mercury	0.104	0.0442	<0.0050	<0.0050	0.0079	0.009	<0.0050	0.0071	<0.0050	<0.0050	<0.0050	0.0129	<0.0050	<0.0050	0.0099	0.016
Molybdenum	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nickel	<5.0	8.1	<5.0	<5.0	21.6	21.7	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	5	8.3	10.9
Phosphorus	530	735	193	216	523	559	292	280	203	259	360	267	214	243	489	582
Potassium	440	590	270	250	3850	3970	510	420	520	470	420	530	700	750	890	1130
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	<200	<200	<200	<200	370	380	<200	<200	<200	<200	<200	<200	<200	240	<200	240
Strontium	29.3	23.5	5.01	5.08	25.2	26.4	7.27	8.89	6.86	6.12	6.58	8.22	6.74	7.77	14.7	19.3
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	36.4	260	165	187	1210	1230	348	357	357	279	231	377	407	403	415	514
Uranium	0.062	0.609	0.219	0.218	1.22	1.21	0.397	0.453	0.392	0.324	0.422	0.344	0.281	0.412	0.807	0.923
Vanadium	2.5	14.6	9.9	10.2	53.2	54.2	19.4	20	16.4	14.9	14.3	17.5	19.8	20.7	21.7	27.3
Zinc	17.3	10.6	9.7	7.3	46.2	48.4	8.8	9.8	9.9	8.3	7.8	11.2	9.9	12.2	23.3	33.4

Notes:
(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	D132 (0-10)	D132 (10-20)	8 (0-10)	8 (10-20)	13 (0-10)	13 (10-20)	14 (0-10)	14 (10-20)	18 (0-10)	18 (10-20)	21 (0-10)	21 (10-20)	22 (0-10)	22 (10-20)	23 (0-10)	23 (10-20)
Date Sampled	29-AUG-10	29-AUG-10	12-Jul-10	12-Jul-10	14-Jul-10	14-Jul-10	15-Jul-10	15-Jul-10	15-Jul-10	15-Jul-10	16-Jul-10	16-Jul-10	16-Jul-10	16-Jul-10	16-Jul-10	16-Jul-10
ALS Sample ID	L929006-49	L929006-50	L933907-1	L933907-2	L933907-3	L933907-4	L933907-5	L933907-6	L933907-7	L933907-8	L933907-9	L933907-10	L933907-11	L933907-12	L933907-13	L933907-14
Physical Tests																
pH	5.09	6.17	6.03	6.22	5.7	6.05	6.63	6.32	6.27	6.42	6.46	6.42	6.46	7.52	6	6.15
Total Organic Carbon	1.67	0.43	2.07	3.85	0.22	<0.10	1.1	1.47	0.97	0.85	1.52	2.92	0.98	0.17	1.78	2.61
Metals (mg/kg dry weight)																
Aluminum	3470	2850	17300	19100	2700	3350	18700	19200	9170	10900	22500	23200	8630	12800	21900	22500
Antimony	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium	21.4	15.1	93.2	106	15.3	22.6	117	112	46.3	53.5	127	135	33.6	69.4	134	131
Beryllium	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	0.59	0.59	<0.50	<0.50	0.61	0.63	<0.50	<0.50	0.66	0.65
Bismuth	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Calcium	1710	1340	4100	5130	1210	1850	4620	4860	2560	3180	5470	5650	3100	3940	4320	5040
Chromium	10.5	9.2	52.2	56.8	9.4	10.5	58.8	60.9	29.2	33.1	65.3	65.8	34.5	42.7	65.6	67.2
Cobalt	3.4	2.4	10.4	11.9	<2.0	3.1	13.8	13.5	5.4	5.9	13.6	14.4	9.2	11.3	12.9	14.7
Copper	9.1	7.1	13.8	17	4.7	7.8	19.1	17.8	10.5	12.4	24.8	27.7	22.6	35.1	26.2	25.6
Iron	7340	6590	26300	29100	7130	7950	29700	30600	14600	16200	33100	33800	16800	22300	30900	32700
Lead	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Lithium	6.4	4.8	26.8	29.4	5.9	6.5	33.3	31.6	14.9	18.2	34.6	37.3	11.5	19	35.6	34.4
Magnesium	1910	1590	10200	11400	1760	2250	11300	11300	5870	6740	13700	14200	6540	9770	13000	13200
Manganese	64.8	51.1	286	362	47.7	67.2	330	324	122	138	345	413	278	301	294	360
Mercury	0.0117	<0.0050	0.0107	0.0205	<0.0050	<0.0050	0.0079	0.0069	<0.0050	<0.0050	0.0078	0.0099	0.0067	<0.0050	0.0101	0.0106
Molybdenum	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nickel	5.6	<5.0	23.3	27.3	<5.0	5.3	29.8	29.4	14.8	17.3	32.3	34.7	23.2	30.2	35	35.7
Phosphorus	295	269	402	512	310	393	584	600	448	529	446	531	284	442	490	578
Potassium	480	360	3890	4380	510	760	4400	4500	2140	2660	5480	6020	1040	2630	4770	4710
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	<200	<200	520	510	<200	<200	460	490	310	410	710	680	240	510	510	520
Strontium	7.84	5.5	23.2	29.5	5.22	7.1	24.7	27.1	15.3	20.4	30.2	33.3	11.1	17.3	26.8	29.1
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	280	240	1220	1330	255	325	1230	1330	660	757	1540	1490	523	744	1470	1510
Uranium	0.482	0.319	1.06	1.26	0.396	0.547	1.75	1.64	0.841	0.961	1.57	1.59	0.342	0.416	2.23	2.05
Vanadium	16.7	15.3	58	63.5	16.7	17.6	64.6	66.6	32.9	37.2	72.7	72	35.2	46	71.7	73.3
Zinc	9.6	7.7	47.4	54.8	8.4	10.4	51.3	52	23.8	29	57.1	61.2	22.8	37.9	59	61

Notes:

(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	29 (0-10)	29 (10-20)	11 (0-10)	11 (10-20)	16 (0-10)	16 (10-20)	REFA-01	REFA-02	REFA-03	REFB-01	REFB-02	REFB-03	REFC-01	REFC-02	REFC-03	LSA-01
Date Sampled	18-Jul-10	18-Jul-10					12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	13-AUG-14	13-AUG-14	13-AUG-14	12-AUG-14
ALS Sample ID	L933907-15	L933907-16	L933907-17	L933907-18	L933907-19	L933907-20	L1504993-1	L1504993-2	L1504993-3	L1504993-4	L1504993-5	L1504993-6	L1504993-7	L1504993-8	L1504993-9	L1504993-10
Physical Tests																
pH	5.62	6.14	6.24	7.28	6.59	7.05	5.74	7.88	5.66	6.27	5.63	6.51	6.39	6.02	5.95	6.91
Total Organic Carbon	5.89	3.34	1.2	0.1	1.22	7.32	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg dry weigl																
Aluminum	12500	21300	3450	9250	2190	13600	7330	19600	5570	4750	9360	6780	17000	4620	5650	9480
Antimony	<10	<10	<10	<10	<10	<10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Arsenic	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.44	2.39	0.724	0.921	0.949	1.08	2.93	0.87	0.917	2.97
Barium	71	128	19.2	60.5	13.8	109	23.7	131	14.5	16	18.7	18.7	77	16.8	15.4	35.3
Beryllium	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.20	0.64	<0.20	<0.20	<0.20	<0.20	0.44	<0.20	<0.20	<0.20
Bismuth	<20	<20	<20	<20	<20	<20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	0.06	<0.050	<0.050	0.062	<0.050	<0.050	<0.050	<0.050	<0.050
Calcium	4000	5910	1070	3580	1240	13800	2660	6160	2040	1510	1970	2620	5090	2050	1860	3470
Chromium	35.8	59.4	8.5	30.5	7.6	41.8	17.1	54.4	11.1	9.93	17.2	21.8	43.6	13.6	17.3	40.9
Cobalt	8.7	13.7	2.2	8.3	2	9.3	4.35	11.9	4.1	4.28	5.85	7.47	10.5	4.46	4.99	9.92
Copper	15.3	27.6	6.2	19.4	5.7	40.3	4.33	25.2	9.86	9.95	10	11.6	16.8	4.84	11.4	23.5
Iron	19900	32000	7470	16200	6020	20400	12900	28500	10500	8460	15600	13200	25100	9910	10700	19100
Lead	<30	<30	<30	<30	<30	<30	3.02	7.93	1.66	1.5	2.96	2.07	6.16	1.65	1.64	2.43
Lithium	19	33.9	9.1	16.9	4.4	24	11.8	35.7	12.1	9.6	22.3	15.4	24.5	8.5	10.8	14
Magnesium	8750	13900	1910	6360	1390	8730	4220	12600	3400	3260	4810	4480	7530	2700	3730	6660
Manganese	230	369	48.2	211	39.7	234	126	348	101	96.3	157	237	253	105	125	283
Mercury	0.0273	0.0084	0.0064	<0.0050	<0.0050	0.0239	0.0066	<0.0050	0.006	<0.0050	0.0287	<0.0050	0.0101	<0.0050	<0.0050	0.0084
Molybdenum	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	0.73	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	19.7	32	<5.0	18.9	<5.0	28.5	8.56	29.9	7.67	8.11	13.5	11.7	21.9	6.63	10.2	27.2
Phosphorus	385	538	177	303	288	521	254	714	299	249	282	398	414	350	282	242
Potassium	3580	5200	480	1910	370	2860	900	5830	510	590	650	520	2730	590	580	1050
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Silver	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	530	840	<200	320	<200	550	300	1450	150	<100	110	200	460	140	120	240
Strontium	24.2	35.3	6.93	13.7	4.56	30.9	14.6	39.7	9.37	7.65	11.7	13.7	34.8	11.6	9.21	14.9
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.059	0.258	<0.050	<0.050	<0.050	<0.050	0.168	<0.050	<0.050	0.056
Tin	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	928	1470	309	665	176	746	727	1490	481	348	746	695	1210	478	462	594
Uranium	1.35	1.94	0.379	1.06	0.345	1.3	0.495	1.69	0.329	0.326	0.417	0.909	1.44	0.415	0.336	0.476
Vanadium	43.6	69.9	16.8	35.6	14	41.3	32.5	62.3	24.1	17.5	31.3	28.6	53.3	23	23.1	38.6
Zinc	36.8	59.4	10.5	25.1	6.9	36.4	17.6	58.7	15.6	15.3	28.5	21.9	41.1	13.3	16.8	34.3

Notes:

(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the Baseline Monitoring Program

Sample ID	LSA-02	LSA-03	LSA-04	LSA-05	LSA-06	LSA-07A	LSA-07B	LSA-08	LSA-09A	LSA-09B	LSA-10	LSA-11	LSA-12	LSA-13A	LSA-13B	LSA-14
Date Sampled	13-AUG-14	13-AUG-14	16-AUG-14	15-AUG-14	15-AUG-14	15-AUG-14	15-AUG-14	15-AUG-14	14-AUG-14	14-AUG-14	15-AUG-14	15-AUG-14	14-AUG-14	16-AUG-14	16-AUG-14	16-AUG-14
ALS Sample ID	L1504993-11	L1504993-12	L1504993-13	L1504993-14	L1504993-15	L1504993-16	L1504993-17	L1504993-18	L1504993-19	L1504993-20	L1504993-21	L1504993-22	L1504993-23	L1504993-24	L1504993-25	L1504993-26
Physical Tests																
pH	8.18	6.57	7.09	6.33	5.81	6.27	6.00	6.23	7.18	7.20	6.20	6.03	6.50	6.07	5.93	5.73
Total Organic Carbon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg dry weight)																
Aluminum	27200	5590	12300	5550	4800	6960	5920	7070	3480	3920	6590	18600	11200	20100	17300	8100
Antimony	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Arsenic	3.77	0.726	2.35	3.92	0.855	3.03	2.37	1.31	0.999	1.01	1.11	3.92	1.74	3.04	2.96	1.87
Barium	164	21.8	54.2	6.85	11.9	25	20.6	18.6	14.6	18.2	17.2	102	71.2	108	89	19.8
Beryllium	0.79	<0.20	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.68	0.33	0.56	0.52	<0.20
Bismuth	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Calcium	6790	1860	4720	1740	1530	2310	2060	2260	2560	2540	1730	5230	4210	4160	3900	2370
Chromium	77.8	14.3	39.7	15	13	18.2	20.7	16.4	12.2	13.1	24.6	49.2	30.8	63.4	54.4	36.9
Cobalt	15.9	4.71	11.1	5.72	5.11	7.28	5.87	6.87	2.84	3.1	6.4	9.2	7.65	12	10.3	8.56
Copper	41.2	6.47	23.8	27.1	12.2	16.5	12.9	33.4	4.06	4.86	11.4	21.3	19	26.5	23.8	20.1
Iron	39800	10100	20900	12200	11400	14000	12000	13600	8150	8650	13700	23700	16700	29200	26000	15000
Lead	9.46	1.78	3.32	1.75	1.42	3.08	2.37	2.55	2.17	2.19	2.15	7.5	4.79	7.88	7.25	2.02
Lithium	50	10.9	16.7	7.7	6.6	11.8	11	10.2	5.8	5.7	9.5	31.2	16.9	30.7	27.9	10.6
Magnesium	17900	3640	7490	3080	2870	4610	3910	3400	1940	2160	4150	9020	5500	10700	9550	5520
Manganese	413	123	327	145	132	175	127	112	91.6	92.2	149	199	210	250	218	213
Mercury	0.0073	0.0074	0.0088	<0.0050	<0.0050	0.0148	0.0103	0.0079	<0.0050	<0.0050	0.0068	0.0173	0.0054	0.0116	0.0103	<0.0050
Molybdenum	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	39.9	8.25	24	9.86	8.66	13.9	13	13.2	5.43	5.86	13.5	26.7	15.9	32.9	27.9	24.1
Phosphorus	363	227	170	113	161	351	277	131	429	364	160	391	289	392	390	137
Potassium	7790	860	2160	160	260	640	640	370	610	790	310	3840	1990	3950	3190	380
Selenium	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Silver	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	1070	180	460	<100	120	<100	100	230	220	230	140	580	410	550	430	300
Strontium	32.3	9.66	21.5	7.52	7.71	10.1	8.33	12.6	12.4	13.3	9.07	51.7	21.6	24.1	22	10.1
Thallium	0.356	<0.050	0.114	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.181	0.127	0.208	0.214	<0.050
Tin	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	1760	480	950	479	414	417	432	539	458	477	563	986	996	1390	1190	635
Uranium	0.863	0.392	0.369	0.405	0.31	0.541	1.07	0.408	0.678	0.641	0.349	1.06	0.782	1.75	1.6	0.302
Vanadium	82	23.1	46.9	27.9	24.7	24.5	23.7	30	19	20	28.7	48.6	37.2	65.2	57.7	35.3
Zinc	80.5	16.4	34.2	13.4	14.3	21.7	19.4	16.5	8.9	10.3	15.5	40	28.7	56.4	50.3	22.5

Notes:
(-) = not available

Appendix V6-5B. Concentrations of Contaminants of Potential Concern in Soil Samples Collected during the

Sample ID	LSA-15	LSA-16	LSA-17	LSA-18	LSA-19	LSA-20	LSA-21
Date Sampled	15-AUG-14	16-AUG-14	14-AUG-14	14-AUG-14	14-AUG-14	13-AUG-14	14-AUG-14
ALS Sample ID	L1504993-27	L1504993-28	L1504993-29	L1504993-30	L1504993-31	L1504993-32	L1504993-33
Physical Tests							
pH	6.15	8.05	6.28	6.47	6.77	6.87	5.90
Total Organic Carbon	-	-	-	-	-	-	-
Metals (mg/kg dry weight)							
Aluminum	13900	13300	3220	2570	6590	12100	4760
Antimony	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Arsenic	2.78	7.17	0.756	0.645	1.83	1.37	0.963
Barium	71	47.9	19.1	14.1	19.4	61.8	16
Beryllium	0.41	0.24	<0.20	<0.20	<0.20	0.3	<0.20
Bismuth	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Calcium	3550	4110	1850	1900	1830	5730	2220
Chromium	44.1	44.9	10.9	9.09	19.6	31.8	27.3
Cobalt	8.86	14.9	2.87	2.25	9.83	7.99	5.83
Copper	16.8	40.6	6.13	8.15	41.7	13.2	6.4
Iron	20600	25900	7520	7010	12700	18200	10800
Lead	5.51	2.97	1.91	1.59	2.4	3.77	1.53
Lithium	20.4	19.5	6.2	<5.0	8.5	20.9	5.8
Magnesium	7180	9120	1700	1260	3810	7010	3280
Manganese	207	394	67	49.6	190	224	149
Mercury	0.012	0.006	<0.0050	<0.0050	0.0061	0.0091	0.0088
Molybdenum	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	24.7	33.6	4.94	3.81	12.8	17.6	13
Phosphorus	182	357	289	325	128	279	192
Potassium	2180	1400	600	280	350	2090	310
Selenium	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Silver	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	450	320	150	140	180	390	110
Strontium	19.7	13.5	8.99	7.88	8.4	30.5	7.86
Thallium	0.147	0.093	<0.050	<0.050	<0.050	0.12	<0.050
Tin	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	962	826	396	320	505	851	366
Uranium	1.06	0.485	0.517	0.456	0.399	0.449	0.314
Vanadium	46.2	56	17.1	17.2	27.8	39.6	26.4
Zinc	32.9	41.4	9.1	6.4	17.5	37.6	15.8

Notes:

(-) = not available