

Appendix V4-8F

Vegetation Metal Sampling



Appendix V4-8F. Vegetation Metal Sampling

Species	Bearberry (<i>Arctostaphylos alpina</i>)										Berry Mix (species unidentified)								
Sample ID	CFW2-B-ARCTRUB	CFW1 ARTO STAPHYLOS ALPINA	CFW2 ARTO STAPHYLOS ALPINA	CFW3 ARTO STAPHYLOS ALPINA	CFW4 ARTO STAPHYLOS ALPINA	CFW6 ARTO STAPHYLOS ALPINA	D20 ARTO STAPHYLOS ALPINA	D22 ARTO STAPHYLOS ALPINA	D29 ARTO STAPHYLOS ALPINA	D75 ARTO STAPHYLOS ALPINA	D54-BERRY MIX	D55-BERRY MIX	D62-BERRY MIX	D63-BERRY MIX	D65-BERRY MIX	D71-BERRY MIX	D72-BERRY MIX	D06-BERRY MIX	D12-BERRY MIX
Date Sampled	06-AUG-10	06-AUG-10	06-AUG-10	06-AUG-10	07-AUG-10	08-AUG-10	16-AUG-10	16-AUG-10	17-AUG-10	24-AUG-10	21-AUG-10	21-AUG-10	23-AUG-10	23-AUG-10	23-AUG-10	24-AUG-10	24-AUG-10	15-AUG-10	16-AUG-10
ALS Sample ID	L951558-2	L945018-1	L945018-2	L945018-3	L945018-4	L945018-5	L945018-6	L945018-7	L945018-8	L945018-9	L944855-1	L944855-2	L944855-3	L944855-4	L944855-5	L944855-6	L944855-7	L944855-11	L944855-12
% Moisture	84.0	86.1	84.4	86.2	84.3	85.2	87.7	87.6	87.2	84.3	86.5	82	86.5	84.2	86.1	86	86.2	89.2	87.2
Metals (mg/kg wet weight)																			
Aluminum	0.42	0.64	0.46	0.41	<0.40	0.92	<0.40	1.28	<0.40	0.72	0.52	0.67	1.22	0.52	1.03	2.03	7.64	3.73	0.84
Antimony	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic	<0.0040	<0.0040	0.0051	<0.0040	0.0045	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Barium	0.453	1.73	0.489	0.516	0.283	0.309	0.449	0.508	0.515	0.839	0.508	0.564	0.645	0.973	0.972	2.03	1.84	0.579	1.24
Beryllium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	1.17	0.85	1.34	1.12	1.35	1.22	1.79	1.11	1.11	1.58	1.94	1.28	1.02	1.53	1.15	1.47	1.6	0.73	1.86
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	0.0035	<0.0020	0.0036	<0.0020	0.0031	0.0047	<0.0020	<0.0020	0.0036	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0134
Calcium	97.0	163	112	98.2	168	60.4	143	69.4	144	125	129	90.2	99.4	126	111	185	232	62.3	147
Cesium	<0.0010	0.0019	<0.0010	0.0059	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0025	0.0021	0.0024	0.0028	0.0015	0.0045	0.0035	<0.0010	<0.0010	<0.0010
Chromium	<0.020	11.6	12.6	9.27	14.5	3.25	0.972	2.16	1.34	0.893	2.57	2.99	4.26	2.71	1.13	2.1	0.854	5.3	7.4
Cobalt	0.0131	0.0887	0.0875	0.15	0.0847	0.0759	0.0224	0.0475	0.0098	0.0307	0.0432	0.053	0.033	0.0446	0.0241	0.0382	0.0221	0.0856	0.0511
Copper	0.396	0.947	0.775	0.583	0.864	0.618	0.349	0.397	0.521	0.436	0.63	0.643	0.658	1.05	0.521	0.697	0.77	0.702	0.747
Gallium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Iron	1.65	55.1	60.3	43.8	67.2	17.8	7.01	11.7	7.61	5.87	13.7	16	21.2	14.2	6.71	11.9	8.96	29.4	36.8
Lead	<0.0040	<0.0040	0.0059	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0128	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0174	0.005
Lithium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.032	0.038	<0.020
Magnesium	99	88.7	81.6	72.5	81.7	76	65.6	70.4	69.7	73.8	80.4	79.2	66.1	64.7	69.3	76.3	86	52.3	91.9
Manganese	0.711	1.99	2.51	1.96	2.35	1.4	0.926	1.32	1.04	1.11	25.7	3.12	4.11	5.83	10.3	53.3	23.2	7.15	14
Mercury	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Molybdenum	0.0147	0.273	0.316	0.426	0.327	0.186	0.0494	0.136	0.0353	0.0619	0.173	0.174	0.134	0.161	0.0809	0.165	0.064	0.313	0.181
Nickel	0.375	6.4	7.06	5.24	7.59	2.1	0.919	1.44	0.786	0.748	1.54	1.87	2.36	1.58	0.773	1.31	0.704	3.09	4.01
Phosphorus	146	191	144	145	105	179	103	156	130	182	128	184	120	104	127	135	154	103	184
Potassium	1430	1170	1390	1200	1330	1190	993	1050	1490	1340	1070	1320	1060	935	1230	895	1120	1060	1230
Rhenium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Rubidium	2.16	2.07	1.91	2.66	1.81	0.694	1.19	0.76	1.33	1.97	1.3	2.75	2.84	1.78	2.98	2.2	1.16	0.62	1.9
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sodium	<200	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Strontium	0.283	0.338	0.265	0.238	0.139	0.154	0.105	0.136	0.186	0.423	0.163	0.193	0.202	0.197	0.16	0.19	0.313	0.113	0.154
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Thorium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tin	<0.0040	0.465	0.461	0.376	0.508	0.212	0.0719	0.16	0.464	0.151	0.38	0.222	0.217	0.328	0.284	0.316	0.386	0.329	0.417
Titanium	<0.010	<0.010	<0.010	<0.010	<0.010	0.031	<0.010	0.044	<0.010	<0.010	<0.010	0.012	0.024	0.016	0.01	<0.010	0.223	0.161	0.019
Uranium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	<0.0040	0.0404	0.0454	0.0568	0.0496	0.0219	0.0064	0.0158	0.0054	0.0067	0.0164	0.0214	0.0181	0.0181	0.0084	0.0142	0.0158	0.0412	0.0273
Yttrium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0021	<0.0020	<0.0020
Zinc	1.79	2.14	1.91	1.22	2.26	1.37	1.88	1.37	2.11	1.81	1.72	1.84	1.31	1.21	1.3	1.28	1.43	0.7	2
Zirconium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually Arctostaphylos alpina, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Berry Mix (species unidentified)								Bog Blueberry (<i>Vaccinium uliginosum</i>)	Crowberry (<i>Empetrum nigrum</i>)									
Sample ID	D16-BERRY MIX	D26-BERRY MIX	D39-BERRY MIX	D42-BERRY MIX	D43-BERRY MIX	D40-BERRY MIX	D50-BERRY MIX	D51-BERRY MIX	D52-VACCINIUM	CFW1-A-EMPENIG	CWF1-EMPENIG	CWF5-EMPENIG	REFA-01	REFA-02	REFA-03	REFB-01	REFB-02	REFB-03	REFC-01
Date Sampled	16-AUG-10	17-AUG-10	19-AUG-10	19-AUG-10	19-AUG-10	19-AUG-10	21-AUG-10	21-AUG-10	21-AUG-10	06-AUG-10	06-AUG-10	08-AUG-10	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	13-AUG-14
ALS Sample ID	L944855-13	L944855-14	L944855-15	L944855-16	L944855-17	L944855-18	L944855-19	L944855-20	L944855-10	L951558-1	L944855-8	L944855-9	L1505021-1	L1505021-2	L1505021-3	L1505021-4	L1505021-5	L1505021-6	L1505021-7
% Moisture	87.3	84.2	86.8	86.9	86.4	82.6	86.8	87.3	87.9	77.3	79.7	83.1	83.3	79.3	82.5	81.1	82.5	77.4	83.7
Metals (mg/kg wet weight)																			
Aluminum	<0.40	<0.40	1.94	24.8	0.73	0.44	0.48	0.55	0.72	0.45	0.67	2.25	0.67	0.5	<0.40	1.35	<0.40	0.66	1.82
Antimony	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic	<0.0040	<0.0040	<0.0040	0.029	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0042	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Barium	0.475	0.59	0.628	1.47	0.263	1.18	1.22	0.584	0.481	2.21	1.84	1.01	0.772	0.948	0.916	0.953	0.736	1.16	0.875
Beryllium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	1.45	1.45	0.81	0.91	1.61	1.14	1.86	0.86	2.51	2.38	1.84	1.77	1.21	1.96	1.3	1.77	1.05	2.12	1.36
Cadmium	0.0037	0.0035	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0066	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	143	169	89.8	117	69.6	122	177	78.4	133	213	191	125	97.4	129	122	144	120	167	132
Cesium	<0.0010	0.0021	0.0012	0.0015	<0.0010	0.0093	<0.0010	<0.0010	<0.0010	0.0166	0.012	0.0015	0.0015	0.0017	0.0041	0.0019	0.0111	0.0078	0.0453
Chromium	0.789	2.3	2.48	5.91	0.46	1.44	4.45	2.49	0.247	<0.020	8.59	9.89	<0.010	<0.010	<0.010	0.015	<0.010	<0.010	<0.010
Cobalt	0.0177	0.0417	0.0414	0.113	0.0173	0.0232	0.072	0.045	<0.0040	0.0056	0.0524	0.0658	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	0.517	0.459	0.806	1.24	0.436	0.938	0.843	0.697	0.843	1.52	1.43	3.04	0.876	1.05	1.14	1.11	0.831	1.46	0.725
Gallium	<0.0040	<0.0040	<0.0040	0.0097	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	-	-	-	-	-	-	-
Iron	5.16	12.4	14.9	230	3.66	8.53	22.6	13.4	3.31	2.89	39.5	52.1	1.88	2.02	2.2	2.68	1.5	2.37	3.18
Lead	0.0056	<0.0040	<0.0040	0.0277	<0.0040	<0.0040	<0.0040	<0.0040	0.0807	0.0044	0.0059	0.0079	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Lithium	<0.020	<0.020	<0.020	0.025	<0.020	<0.020	<0.020	<0.020	0.029	0.042	0.033	<0.020	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	73.2	75.4	52.6	73.2	77.2	64.6	98.1	61.3	74.6	129	117	84.9	76.3	106	92.5	106	80.3	107	75.3
Manganese	1.86	3.06	1.97	12	1.58	6.21	62.3	8.62	16.4	4.87	5.06	5.04	3.71	6.46	3.82	8.19	2.68	6.21	3.31
Mercury	<0.0010	<0.0010	<0.0010	0.0125	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Molybdenum	0.0422	0.113	0.151	0.287	0.0282	0.0807	0.259	0.123	0.0838	<0.0040	0.198	0.241	0.0103	0.0113	0.0117	<0.0040	<0.0040	0.006	0.0159
Nickel	0.532	1.38	1.49	3.43	0.346	0.898	2.58	1.49	0.297	0.157	4.4	5.32	0.06	0.081	0.079	0.093	0.065	0.111	0.052
Phosphorus	113	119	114	143	186	134	182	128	159	285	237	218	158	219	197	224	165	211	188
Potassium	1240	1250	1060	1140	1380	994	994	1090	793	1660	1530	1210	1350	1640	1230	1610	1190	1540	1240
Rhenium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-	-	-	-	-	-	-
Rubidium	0.943	2.76	3.32	2.38	0.934	3.56	0.89	2.15	0.737	7.00	5.26	3.1	2.6	2.46	5.01	3.16	3.95	4.16	3.17
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-	-	-	-	-	-
Sodium	<20	<20	<20	<20	<20	<20	<20	<20	<20	<200	<200	<20	7.3	8.7	11.3	12.1	6.1	7.6	5.8
Strontium	0.16	0.189	0.087	0.353	0.137	0.184	0.415	0.123	0.271	0.421	0.383	0.272	0.113	0.178	0.253	0.287	0.23	0.379	0.291
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	<0.00040	<0.00040	<0.00040	0.00048	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Thorium	<0.0020	<0.0020	<0.0020	0.0128	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-	-	-	-	-	-	-
Tin	0.19	0.151	0.453	0.162	0.0816	0.0967	0.453	0.149	0.697	<0.0040	0.932	0.479	0.084	0.088	0.037	0.04	0.043	0.04	0.029
Titanium	<0.010	<0.010	0.096	0.719	0.014	0.012	<0.010	0.017	0.014	0.013	0.016	0.128	-	-	-	-	-	-	-
Uranium	<0.00040	<0.00040	<0.00040	0.0057	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00093
Vanadium	0.0059	0.0157	0.0198	0.0986	<0.0040	0.0101	0.0272	0.0169	<0.0040	<0.0040	0.0296	0.0428	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Yttrium	<0.0020	<0.0020	<0.0020	0.0407	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-	-	-	-	-	-	-
Zinc	1.89	1.92	1.01	1.17	1.7	1.19	1.84	1.15	3.55	2.77	2.34	1.98	0.98	1.46	1.23	1.45	0.96	2.07	1.3
Zirconium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Crowberry (<i>Empetrum nigrum</i>)																		
Sample ID	REFC-02	REFC-03	LSA-01	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	12-AUG-14	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	L1505021-8	L1505021-9	L1505021-10	L1505021-11	L1505021-12	L1505021-13	L1505021-14	L1505021-15	L1505021-16	L1505021-17	L1505021-18	L1505021-19	L1505021-20	L1505021-21	L1505021-22	L1505021-23	L1505021-24	L1505021-25	L1505021-26
% Moisture	80.4	85.1	86.8	80	83.7	84.3	82.6	83	80.7	79.8	81.3	83.1	83.2	81.7	80.6	83	82.4	83.7	83.2
Metals (mg/kg wet weight)																			
Aluminum	37.3	0.41	0.95	0.99	1.03	0.64	0.49	0.83	0.47	<0.40	5.24	1.75	0.46	<0.40	0.71	<0.40	1.65	1.35	0.8
Antimony	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Barium	1.03	0.495	0.78	1.89	0.995	0.928	2.83	1.47	1.31	1.13	1.11	0.886	0.784	1.57	1.92	1.22	1.13	1.08	0.917
Beryllium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	1.5	0.9	1.17	1.56	1.51	1.03	1.31	1.73	1.91	2	1.5	1.46	1.28	1.87	2.1	1.53	1.16	1.14	1.22
Cadmium	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	169	79.5	98.8	174	130	124	195	170	184	159	138	139	123	174	213	146	139	133	106
Cesium	0.0041	0.0032	<0.0010	0.0164	<0.0010	0.0018	0.0323	0.0128	0.0081	0.0073	0.011	0.0033	0.0036	0.0167	0.0149	0.006	0.0017	0.0015	0.0026
Chromium	0.123	<0.010	0.012	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	0.0267	<0.0040	<0.0040	<0.0040	0.0047	<0.0040	0.005	<0.0040	<0.0040	<0.0040	0.0065	0.0061	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	1.15	0.808	0.74	1.18	0.956	0.91	1.31	1.07	0.956	1.09	1.28	0.862	0.815	1.11	1.29	1.15	0.936	0.959	0.796
Gallium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	52.3	1.17	2.34	3.28	2.26	2.2	2.17	1.91	1.83	1.75	5.07	3.33	1.7	1.67	1.72	1.31	2.59	2.41	1.96
Lead	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Lithium	<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	<0.10	<0.10	<0.10
Magnesium	115	67.4	67.4	117	87.4	71.9	83.1	94.2	94.8	92.7	82.6	95.1	86.9	83.2	109	78.6	81.3	81	64.2
Manganese	6.39	4.52	2.06	14	6.42	1.68	8.33	4.25	6.79	6.44	3.23	5.04	4.32	5.01	3.95	4.57	3.22	3.31	3.98
Mercury	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Molybdenum	0.006	<0.0040	0.0248	<0.0040	0.0062	0.0098	0.0047	0.004	0.0142	0.0167	<0.0040	0.0099	0.0068	0.0047	0.0088	<0.0040	0.0061	0.0064	<0.0040
Nickel	0.123	0.057	0.086	0.126	0.077	0.059	0.084	0.092	0.076	0.072	0.09	0.096	0.083	0.06	0.131	0.057	0.072	0.072	0.102
Phosphorus	221	145	152	200	182	107	158	156	169	177	150	186	161	145	219	124	147	144	115
Potassium	1560	1210	1210	1620	1380	1260	941	976	1250	1380	1140	1370	1240	1040	1190	1110	1340	1400	1050
Rhenium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	4.85	3.94	1.62	5	1.94	3.72	4.47	3.98	5.2	5.88	5.3	3.54	3.73	4.98	3.2	2.97	2.99	3.01	2.64
Selenium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	6.8	6.3	8.8	13.1	6.3	9.6	6.9	6.8	6.6	6.1	7.8	8.6	7.8	9.1	9.2	4.7	9	8	14.2
Strontium	0.293	0.127	0.203	0.385	0.19	0.15	0.411	0.448	0.281	0.225	0.207	0.233	0.204	0.263	0.527	0.269	0.185	0.175	0.217
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Thorium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	0.045	0.043	0.083	<0.020	0.024	0.031	<0.020	0.046	0.023	0.023	0.034	0.029	<0.020	0.032	0.043	0.048	0.048	0.041	0.034
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	0.121	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Yttrium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	1.27	0.81	0.92	1.56	1.15	1	1.19	1.32	1.3	1.41	1.19	1.18	1.05	1.33	1.87	1.22	1.05	1.05	1
Zirconium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Crowberry (<i>Empetrum nigrum</i>)							Lichen (<i>Flavocetraria culcollata</i>)											
Sample ID	LSA-15	LSA-16	LSA-17	LSA-18	LSA-19	LSA-20	LSA-21	D73 FLAVO CETRARIA CUCULLATA	D82 FLAVO CETRARIA CUCULLATA	D114 FLAVO CETRARIA CUCULLATA	023 FLAVO CETRARIA CUCULLATA	021 FLAVO CETRARIA CUCULLATA	010 FLAVO CETRARIA CUCULLATA	011 FLAVO CETRARIA CUCULLATA	024 FLAVO CETRARIA CUCULLATA	LICHEN 1 - F. CUCULATTA	LICHEN 2 - F. CUCULATTA	LICHEN 3 - F. CUCULATTA	LICHEN 4 - F. CUCULATTA
Date Sampled	15-AUG-14	16-AUG-14	14-AUG-14	14-AUG-14	14-AUG-14	13-AUG-14	14-AUG-14	24-AUG-10	25-AUG-10	28-AUG-10	16-JUL-10	16-JUL-10	14-JUL-10	14-JUL-10	16-JUL-10	07-JUL-11	07-JUL-11	07-JUL-11	07-JUL-11
ALS Sample ID	L1505021-27	L1505021-28	L1505021-29	L1505021-30	L1505021-31	L1505021-32	L1505021-33	L944854-1	L944854-2	L944854-3	L944854-4	L944854-5	L944854-6	L944854-7	L944854-8	L1039962-2	L1039962-4	L1039962-6	L1039962-8
% Moisture	85.4	82.9	83.1	81.3	83.1	81.3	82.7	8.06	11.7	35.9	61.2	50.2	22.2	14.1	31.3	4.93	5.48	4.55	9.55
Metals (mg/kg wet weight)																			
Aluminum	<0.40	1.05	<0.40	<0.40	0.85	0.86	<0.40	64.7	102	36.1	31.8	419	64.7	64.4	43.4	104	101	94.8	66.3
Antimony	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0037	0.0036	0.0031	0.0033	0.0089	0.0041	0.0041	0.0046	<0.010	<0.010	<0.010	<0.010
Arsenic	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0385	0.0371	0.0242	0.0167	0.0699	0.0357	0.0412	0.0381	0.142	0.059	0.084	0.052
Barium	1.12	0.816	0.771	1.47	0.701	1.26	1.36	8.32	6.37	3.65	1.56	2.41	6.53	6.91	1.97	5.89	6.41	9.4	5.09
Beryllium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0021	0.0049	<0.0020	<0.0020	0.0064	0.0028	0.0034	<0.0020	<0.10	<0.10	<0.10	<0.10
Bismuth	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0023	<0.0020	<0.0020	<0.0020	<0.030	<0.030	<0.030	<0.030
Boron	1.93	1.02	0.95	1.99	1.34	1.73	1.37	4.2	4.71	3.01	2.71	2.04	3.71	2.75	6.91	-	-	-	-
Cadmium	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0657	0.0365	0.042	0.015	0.0264	0.0313	0.0399	0.0855	0.0654	0.0515	0.169	0.0328
Calcium	154	139	103	198	122	147	149	4410	1400	4650	991	4470	1490	1290	27700	2890	1860	7100	1760
Cesium	0.0068	0.0014	0.0031	0.0896	0.0035	0.0037	0.0086	0.0423	0.0215	0.0307	0.005	0.0163	0.0453	0.0657	0.0076	-	-	-	-
Chromium	<0.010	0.024	<0.010	<0.010	<0.010	<0.010	<0.010	0.473	1.43	0.704	0.36	3.65	0.531	0.361	0.585	4.06	10.7	1.9	5.77
Cobalt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0893	0.175	0.0522	0.042	0.468	0.157	0.14	0.0359	0.17	0.254	0.172	0.183
Copper	1.2	0.887	0.75	1.25	0.734	1.09	0.858	0.707	0.835	0.571	0.353	1.63	0.748	0.775	1.24	2.33	2.3	0.905	2.15
Gallium	-	-	-	-	-	-	-	0.0203	0.0288	0.0114	0.0109	0.142	0.018	0.0189	0.0144	-	-	-	-
Iron	1.75	2.66	1.45	1.81	1.84	2.86	1.66	72.9	110	39.9	40.6	785	65.5	61.9	60.5	149	163	92.7	88.1
Lead	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.205	0.166	0.237	0.0729	0.251	0.194	0.2	0.281	0.196	0.214	0.619	0.209
Lithium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.064	0.08	0.026	0.029	0.314	0.042	0.043	0.023	<0.10	0.16	<0.10	<0.10
Magnesium	73.8	73.1	77.2	92.7	75.1	94.9	75.3	554	661	322	388	945	471	699	288	760	665	1010	535
Manganese	7.47	4.66	4.03	4.97	5.56	3.33	4.19	41.3	84.3	34.1	51.8	38.5	50	57.3	6.05	112	73.8	47.6	97.8
Mercury	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0364	0.0341	0.0257	0.0104	0.0234	0.0404	0.0387	0.0213	0.0439	0.0719	0.0473	0.0405
Molybdenum	<0.0040	0.0129	0.38	0.0082	0.009	<0.0040	0.0066	0.0303	0.0352	0.0206	0.0231	0.0518	0.0213	0.0243	0.0267	0.083	0.084	0.044	0.062
Nickel	0.077	0.052	0.091	0.073	0.068	0.085	0.072	0.473	0.772	0.394	0.249	1.93	0.45	0.346	0.41	1.86	4.96	0.84	2.62
Phosphorus	164	155	148	194	144	160	140	600	1010	350	240	400	590	850	230	1020	782	333	401
Potassium	1070	1150	1310	1060	1210	1440	1150	1450	2200	1240	730	1020	1590	1880	1070	2450	1980	1240	1550
Rhenium	-	-	-	-	-	-	-	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-	-	-	-
Rubidium	2.5	1.34	4.62	3.22	3.1	3	3.9	5.81	4.75	3.73	0.468	0.623	4.56	7.76	1.12	-	-	-	-
Selenium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.049	0.04	0.04	<0.020	0.03	0.058	0.037	0.029	<0.20	<0.20	<0.20	<0.20
Silver	-	-	-	-	-	-	-	0.0039	0.0065	0.004	0.0032	0.0073	0.005	0.006	0.0052	0.011	0.013	0.01	0.013
Sodium	5.8	12.4	5.4	7.8	6.2	9.9	8.9	<900	730	<600	<400	<500	<700	810	<700	860	830	312	790
Strontium	0.157	0.115	0.13	0.271	0.118	0.221	0.309	28.1	2.63	2.43	1.95	4.42	2.85	3.08	9.66	5.9	5.6	23.3	5.09
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	-	-	-	-
Thallium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00696	0.0147	0.00629	0.00151	0.00256	0.014	0.02	0.00109	<0.010	<0.010	<0.010	<0.010
Thorium	-	-	-	-	-	-	-	0.0169	0.0431	0.0122	0.014	0.0745	0.0237	0.0179	0.0179	-	-	-	-
Tin	0.061	0.04	0.046	0.034	0.05	0.045	0.04	0.0442	0.0205	0.0896	0.0147	0.0206	0.0183	0.0355	0.0225	<0.050	<0.050	<0.050	<0.050
Titanium	-	-	-	-	-	-	-	3.35	6.47	1.94	2.01	28.3	3.99	2.83	2.68	7.2	8.2	5.87	4.1
Uranium	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00483	0.0093	0.00273	0.00253	0.0112	0.00449	0.00444	0.00543	0.0078	0.0095	0.061	0.0088
Vanadium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.166	0.227	0.0851	0.0939	2.08	0.144	0.133	0.159	0.32	0.32	0.24	0.18
Yttrium	-	-	-	-	-	-	-	0.0482	0.071	0.0351	0.0198	0.258	0.0359	0.0296	0.117	-	-	-	-
Zinc	1.49	1.1	0.81	1.76	0.96	1.3	1.01	28.8	25.3	13.9	9.78	13.3	18.3	27.8	11.8	23.2	23.1	18.8	21
Zirconium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.054	0.135	<0.040	0.046	0.198	0.056	0.06	0.05	-	-	-	-

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Lichen (<i>Flavocetraria culcullata</i>)											Lichen (<i>Flavocetraria nivalis</i>)							
Sample ID	LICHEN 5 - F. CUCULATTA	LICHEN 6 - F. CUCULATTA	LICHEN 7 - F. CUCULATTA	LICHEN 8 - F. CUCULATTA	LICHEN 9 - F. CUCULATTA	LICHEN 10 - F. CUCULATTA	SITE 11 - F. CUCULATTA	SITE 12 - F. CUCULATTA	SITE 13 - F. CUCULATTA	SITE 14 - F. CUCULATTA	SITE 15 - F. CUCULATTA	D63 FLAVO CETRARIA NIVALIS	D65 FLAVO CETRARIA NIVALIS	D62 FLAVO CETRARIA NIVALIS	D89 FLAVO CETRARIA NIVALIS	D97 FLAVO CETRARIA NIVALIS	D93 FLAVO CETRARIA NIVALIS	D116 FLAVO CETRARIA NIVALIS	D86 FLAVO CETRARIA NIVALIS
Date Sampled	07-JUL-11	07-JUL-11	07-JUL-11	08-JUL-11	08-JUL-11	12-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	23-AUG-10	23-AUG-10	23-AUG-10	26-AUG-10	26-AUG-10	26-AUG-10	28-AUG-10	25-AUG-10
ALS Sample ID	L1039962-10	L1039962-12	L1039962-14	L1039962-16	L1039962-18	L1039962-20	L1039962-22	L1039962-24	L1039962-26	L1039962-28	L1039962-30	L944854-9	L944854-10	L944854-11	L944854-12	L944854-13	L944854-14	L944854-15	L944854-16
% Moisture	4.17	4.65	50.8	44.3	46.6	8.82	13.6	11.6	10.4	11.2	19.3	18.8	9.51	35.8	18.1	11.4	17.1	15.8	9.85
Metals (mg/kg wet weight)																			
Aluminum	93.1	52.9	59.7	111	44.9	26.2	78.2	110	81.8	47.6	98.6	38.7	39.9	60.7	22.1	35.9	38	30.3	26.3
Antimony	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0028	0.0025	0.0054	0.002	0.0027	0.0022	0.0037	0.0028
Arsenic	0.053	0.066	0.027	0.039	0.039	0.04	0.053	0.075	0.057	0.041	0.07	0.0231	0.0333	0.103	0.0277	0.0368	0.023	0.0308	0.0395
Barium	11.2	14.5	8.13	3.35	8.12	13.2	8.57	8.43	12.1	16.9	12.8	11.1	20.9	13.9	6.28	14.5	5.77	20.4	13.3
Beryllium	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.0025	0.003	0.0043	<0.0020	0.0026	<0.0020	0.0034	<0.0020
Bismuth	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0020	<0.0020	0.0022	<0.0020	0.0021	<0.0020	<0.0020	<0.0020
Boron	-	-	-	-	-	-	-	-	-	-	-	2.25	5.76	4.55	4.91	6.38	5.37	3.56	6.86
Cadmium	0.0725	0.0759	0.0351	0.0304	0.0433	0.153	0.0218	0.016	0.0779	0.0433	0.0986	0.0614	0.0649	0.05	0.115	0.0629	0.0942	0.0675	0.0478
Calcium	3140	2680	2100	1660	3170	6820	971	326	2680	2400	3080	3670	5010	4570	12600	5500	4910	3250	3760
Cesium	-	-	-	-	-	-	-	-	-	-	-	0.0286	0.0346	0.0191	0.0327	0.0128	0.0847	0.0343	0.0276
Chromium	1.21	1.18	1.05	4.53	1.22	0.58	1.68	4.81	1.38	1.04	1.61	0.454	0.587	0.683	0.29	0.421	0.252	0.287	0.553
Cobalt	0.123	0.248	0.13	0.207	0.17	0.098	0.065	0.135	0.177	0.093	0.185	0.144	0.205	0.24	0.0283	0.142	0.129	0.14	0.0721
Copper	0.926	0.818	0.479	1.13	1.41	0.93	0.821	1.23	0.683	0.611	1.86	0.561	0.631	0.701	0.649	0.592	0.512	0.569	0.697
Gallium	-	-	-	-	-	-	-	-	-	-	-	0.0134	0.014	0.0168	0.0066	0.0076	0.0082	0.0089	0.0079
Iron	81.9	40.2	58.1	158	59.3	28.5	70.6	149	68.5	36.1	106	42.6	48.8	87.9	27	42	30.8	32.9	28.3
Lead	0.1	0.094	0.158	0.122	0.107	0.197	0.201	0.117	0.311	0.27	0.603	0.365	0.32	0.393	0.197	0.303	0.348	0.297	0.185
Lithium	<0.10	<0.20	<0.10	<0.20	<0.10	<0.10	<0.20	<0.20	<0.10	<0.10	<0.20	<0.020	<0.020	0.037	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	956	1670	645	515	810	829	362	447	911	674	897	968	818	683	585	834	851	748	768
Manganese	64.9	105	53.5	34.4	55.6	140	69.8	37.6	54.9	81	40.8	88.6	112	92.7	54.2	113	51.5	86.4	145
Mercury	0.0015	<0.0010	0.0216	0.0262	0.0173	0.0472	0.0249	<0.0010	0.0236	0.0066	0.037	0.0326	0.0372	0.0238	0.0253	0.032	0.0262	0.028	0.036
Molybdenum	0.057	0.036	0.021	0.041	0.024	0.039	0.033	0.049	0.033	0.03	0.038	0.026	0.0251	0.0251	0.0261	0.0257	0.0225	0.0271	0.0238
Nickel	0.53	0.58	0.45	2.03	0.63	0.45	0.79	2.01	0.68	0.43	0.89	0.335	0.607	0.578	0.224	0.369	0.351	0.273	0.329
Phosphorus	463	595	272	466	312	553	380	450	300	419	235	520	380	270	310	340	330	490	540
Potassium	1360	1500	713	980	900	1760	1450	1520	1240	1500	962	1560	1710	1030	1210	1390	1170	1590	1900
Rhenium	-	-	-	-	-	-	-	-	-	-	-	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Rubidium	-	-	-	-	-	-	-	-	-	-	-	3.58	4.5	2.66	2.92	2.33	5.35	3.99	3.28
Selenium	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.06	0.075	<0.020	0.04	0.034	<0.020	0.038	0.053
Silver	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0104	0.0081	0.0089	0.005	0.007	0.0056	0.0069	0.0047
Sodium	472	610	235	525	289	510	475	528	324	339	264	<700	<900	<600	<700	<900	<800	<800	<800
Strontium	13.8	17.8	6.15	3.93	10.4	11.4	2.5	2.97	11.5	6.04	13.6	7.82	10.4	10.8	9.93	9.92	6.52	7.93	4.3
Tellurium	-	-	-	-	-	-	-	-	-	-	-	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.016	<0.010	<0.010	<0.010	0.00464	0.0138	0.00441	0.00141	0.00378	0.00201	0.00839	0.00686
Thorium	-	-	-	-	-	-	-	-	-	-	-	0.0112	0.0146	0.0257	0.0103	0.0372	0.0081	0.0116	0.0068
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.0158	0.0186	0.0238	0.0194	0.0445	0.0302	0.0144	0.0297
Titanium	6.1	2.17	4.7	6.70	3.21	2.4	3.81	7.88	5.18	2.46	6.22	3.29	2.64	5.84	1.51	3.5	1.57	1.99	1.42
Uranium	0.0515	<0.0020	0.0595	0.0156	0.005	0.0041	0.0099	<0.0020	0.0145	0.0095	0.0265	0.00236	0.00851	0.00949	0.00191	0.00442	0.0019	0.00272	0.00223
Vanadium	0.17	0.1	0.17	0.42	0.16	<0.10	0.16	0.28	0.17	0.1	0.24	0.105	0.13	0.179	0.0596	0.103	0.0624	0.07	0.065
Yttrium	-	-	-	-	-	-	-	-	-	-	-	0.0713	0.173	0.314	0.0277	0.155	0.0475	0.03	0.0197
Zinc	24.2	34.8	15.2	22.4	19.7	27	16.8	19.4	23.4	20.1	18	30.6	23.4	16.1	14.4	19.9	14.8	23.3	26
Zirconium	-	-	-	-	-	-	-	-	-	-	-	<0.040	<0.040	0.166	<0.040	0.051	<0.040	<0.040	<0.040

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Lichen (<i>Flavocetraria nivalis</i>)																		
Sample ID	D114 FLAVO CETRARIA NIVALIS	D125 FLAVO CETRARIA NIVALIS	LICHEN 1 - F. NIVALIS	LICHEN 2 - F. NIVALIS	LICHEN 3 - F. NIVALIS	LICHEN 4 - F. NIVALIS	LICHEN 5 - F. NIVALIS	LICHEN 6 - F. NIVALIS	LICHEN 7 - F. NIVALIS	LICHEN 8 - F. NIVALIS	LICHEN 9 - F. NIVALIS	LICHEN 10 - F. NIVALIS	SITE 11 - F. NIVALIS	SITE 12 - F. NIVALIS	SITE 13 - F. NIVALIS	SITE 14 - F. NIVALIS	SITE 15 - F. NIVALIS	REFA-01	REFA-02
Date Sampled	28-AUG-10	29-AUG-10	07-JUL-11	07-JUL-11	07-JUL-11	07-JUL-11	07-JUL-11	07-JUL-11	07-JUL-11	08-JUL-11	08-JUL-11	12-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	26-JUL-11	12-AUG-14	12-AUG-14
ALS Sample ID	L944854-17	L944854-18	L1039962-1	L1039962-3	L1039962-5	L1039962-7	L1039962-9	L1039962-11	L1039962-13	L1039962-15	L1039962-17	L1039962-19	L1039962-21	L1039962-23	L1039962-25	L1039962-27	L1039962-29	L1505032-1	L1505032-2
% Moisture	36.4	16.2	5.62	6.02	7.69	4.27	7.2	5.01	49.3	41.5	43.7	9.12	14	11.5	11.3	11.7	22.2	11.7	12.5
Metals (mg/kg wet weight)																			
Aluminum	21.3	39.6	41.4	47.8	81.3	63.7	73.4	69.5	64.1	44.9	104	56.3	45.8	80.7	97.6	75.9	121	74.9	174
Antimony	0.0031	0.0031	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0034	0.0037
Arsenic	0.0208	0.0297	0.086	0.066	0.077	0.072	0.043	0.056	0.022	0.03	0.036	0.042	0.041	0.064	0.051	0.046	0.069	0.0383	0.0499
Barium	8.65	10.7	6.23	12.8	5.65	13.8	6.16	5.25	3.47	5.76	3.66	5.57	15.4	16	5.72	9.49	7.21	13.2	11.2
Beryllium	<0.0020	0.0031	<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	0.0031	0.0069
Bismuth	<0.0020	0.0031	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.002	0.003
Boron	3.3	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71	0.67
Cadmium	0.0687	0.0696	0.0916	0.136	0.0536	0.0954	0.04	0.0429	0.0129	0.0614	0.0208	0.0835	0.0635	0.0731	0.0264	0.0185	0.0361	0.062	0.0865
Calcium	4630	4680	2860	6050	2080	3890	1920	1860	687	2910	1180	3170	2940	2430	981	1690	1320	3750	4030
Cesium	0.0193	0.0344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0357	0.0379
Chromium	1.1	0.496	1.9	1.06	4.65	1.19	5.88	3.61	2.83	0.6	4.02	2.14	2.02	1.59	7.1	3.82	4.73	0.158	0.429
Cobalt	0.073	0.104	0.163	0.292	0.148	0.159	0.189	0.163	0.1	0.102	0.145	0.109	0.113	0.122	0.163	0.107	0.153	0.144	0.176
Copper	0.533	0.616	0.958	0.805	1.93	0.823	1.18	1.35	0.797	0.49	0.939	1.93	1.42	0.713	1.91	1.5	1.58	0.747	0.979
Gallium	0.0067	0.0107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.6	184
Iron	28.8	46	60.1	52.1	111	58.4	101	88.3	79.5	42.7	131	63.6	43	63.1	140	89.5	154	-	-
Lead	0.24	0.389	0.254	0.377	0.203	0.365	0.162	0.28	0.09	0.158	0.089	0.126	0.255	0.613	0.148	0.15	0.417	0.268	0.439
Lithium	<0.020	<0.020	<0.10	<0.10	<0.10	<0.10	0.13	0.12	<0.10	<0.10	<0.10	0.19	<0.10	<0.10	<0.10	0.15	0.13	<0.10	0.22
Magnesium	561	579	881	1110	545	855	556	779	403	742	473	562	649	768	402	456	453	1050	1350
Manganese	87	41.7	106	75.4	55	77	65.8	47.6	37.1	55.6	28.6	82.5	114	63.8	58.1	54.8	30.2	103	86.9
Mercury	0.0267	0.0323	0.0334	0.0537	0.0576	0.0256	0.0403	0.0325	0.0214	0.024	0.0233	0.0502	0.0136	0.0019	0.0351	0.0238	0.0331	0.0443	0.0549
Molybdenum	0.0352	0.0468	0.034	0.028	0.053	0.032	0.083	0.042	0.025	0.018	0.032	0.041	0.034	0.03	0.061	0.047	0.052	0.0257	0.0467
Nickel	0.606	0.358	0.92	0.57	2.1	0.51	2.7	1.65	1.43	0.28	1.72	1.05	0.85	0.84	3.11	1.66	2.24	0.202	0.443
Phosphorus	280	360	503	472	590	332	678	831	470	263	399	601	341	246	572	660	362	644	507
Potassium	1120	1200	1500	1550	2020	1310	1940	2050	981	921	1190	2020	1340	1210	2010	2330	1540	1630	1380
Rhenium	<0.0020	<0.0020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	2.85	3.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2.6
Selenium	0.029	0.047	<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	0.063	0.07
Silver	0.0031	0.0104	0.012	0.012	0.01	0.01	0.011	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	-	-
Sodium	<700	<800	500	396	950	338	980	1210	416	325	419	690	345	297	650	640	490	431	371
Strontium	5.35	7.79	7.29	19.2	6.24	13.6	4.99	6.17	1.76	8.39	3.07	4.48	10.2	9.3	3	3.13	5.41	9.83	13
Tellurium	<0.0040	<0.0040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0040	<0.0040
Thallium	0.00323	0.00582	<0.010	<0.010	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	0.011	<0.010	0.00437	0.00544
Thorium	0.0123	0.0127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	0.026	0.0271	<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	<0.020	<0.020
Titanium	1.44	2.45	3.6	3.19	6.1	3.76	4.9	4.7	3.97	2.9	6.77	3.8	2.79	3.58	7.6	6.9	9.5	-	-
Uranium	0.00203	0.00497	0.0038	0.0086	0.0226	0.0061	0.0468	0.0173	0.0041	0.0163	0.0095	0.0056	0.0043	0.0091	0.012	0.017	0.0117	0.00852	0.035
Vanadium	0.0568	0.124	0.14	0.11	0.22	0.14	0.18	0.17	0.19	0.12	0.34	0.13	<0.10	0.16	0.25	0.17	0.31	0.2	0.457
Yttrium	0.0413	0.0708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	17.3	15.5	26.1	17.2	21.4	22.5	21.8	23.7	17.3	24.1	16.6	27	22.7	21.4	18.9	16.2	14.6	23.3	19.6
Zirconium	<0.040	<0.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.074	0.178

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Lichen (<i>Flavocetraria nivalis</i>)																		
Sample ID	REFA-03	REFB-01	REFB-02	REFB-03	REFC-01	REFC-02	REFC-03	LSA-01	LSA-02	LSA-03	LSA-04	LSA-05	LSA-06	LSA-07A	LSA-07B	LSA-08	LSA-09A	LSA-09B	LSA-10
Date Sampled	12-AUG-14	12-AUG-14	12-AUG-14	12-AUG-14	13-AUG-14	13-AUG-14	13-AUG-14	12-AUG-14	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
ALS Sample ID	L1505032-3	L1505032-4	L1505032-5	L1505032-6	L1505032-7	L1505032-8	L1505032-9	L1505032-10	L1505032-11	L1505032-12	L1505032-13	L1505032-14	L1505032-15	L1505032-16	L1505032-17	L1505032-18	L1505032-19	L1505032-20	L1505032-21
% Moisture	12.3	12.5	12.9	12.9	12.5	12.9	12.1	12.6	11.9	13.1	12.1	12.9	13.3	10.9	12.9	11.5	11.7	12.3	11.7
Metals (mg/kg wet weight)																			
Aluminum	163	115	129	77.4	45.4	101	108	156	165	213	240	227	92.3	305	150	142	531	216	175
Antimony	0.0037	0.0039	0.0035	0.0029	<0.0020	0.0025	0.0027	0.004	0.0051	0.0045	0.0034	0.0041	0.0035	0.0117	0.0064	0.0023	0.0038	0.0053	0.0031
Arsenic	0.0505	0.0781	0.06	0.0467	0.0383	0.0488	0.0584	0.0674	0.0719	0.0713	0.0887	0.205	0.061	0.162	0.0927	0.0548	0.292	0.145	0.0703
Barium	10.3	14.3	12.3	11.5	11.3	8.89	13.3	4.38	2.19	14.9	3.55	3.23	2.78	10	8.14	11.4	11.8	12.9	7.27
Beryllium	0.0044	0.0069	0.0096	0.0044	0.0024	0.006	0.005	0.0038	0.0036	0.0047	0.0051	0.0065	0.0049	0.0111	0.0065	0.0043	0.0096	0.0092	0.0087
Bismuth	0.0028	0.0043	0.0032	0.0031	0.0021	0.0031	0.0028	0.0025	0.0037	0.0037	0.0049	0.0053	0.0045	0.0058	0.0031	0.0031	0.0046	0.0034	0.0032
Boron	0.85	1.09	0.51	0.36	0.33	0.54	0.46	0.86	0.59	0.59	0.61	0.66	0.58	0.93	0.5	0.57	0.78	0.61	0.65
Cadmium	0.0493	0.0917	0.116	0.0924	0.0954	0.0645	0.102	0.0541	0.0631	0.0885	0.096	0.0857	0.063	0.1	0.0784	0.226	0.115	0.129	0.0748
Calcium	2820	4900	5090	4440	3640	4490	4690	11400	11800	6350	14400	9090	2020	9560	7160	5680	12900	10300	11300
Cesium	0.0291	0.044	0.0803	0.0433	0.0858	0.0299	0.0553	0.0188	0.0261	0.0222	0.0334	0.0378	0.0228	0.0432	0.0357	0.0329	0.0489	0.0412	0.0401
Chromium	0.301	0.219	0.209	0.133	0.067	0.242	0.185	0.508	0.751	0.752	1.14	0.585	0.154	0.598	0.295	0.221	2.66	0.487	0.453
Cobalt	0.188	0.185	0.395	0.123	0.0804	0.18	0.182	0.124	0.193	0.286	0.341	0.31	0.0608	0.278	0.217	0.298	0.841	0.389	0.182
Copper	0.922	0.918	0.996	0.744	0.545	0.808	0.706	1.13	1.39	1.17	2.13	1.97	0.597	1.87	0.944	1.53	2.8	1.91	1.55
Gallium	211	131	161	75.9	36.4	141	137	197	255	284	304	355	85.6	394	177	144	970	291	234
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	0.365	0.641	0.675	0.669	0.283	0.328	0.413	0.287	0.46	0.606	0.652	0.787	0.736	0.729	0.504	0.462	0.512	0.611	0.405
Lithium	0.15	0.11	0.17	<0.10	<0.10	0.12	0.11	0.14	0.12	0.15	0.18	0.12	<0.10	0.27	0.14	<0.10	0.37	0.21	0.17
Magnesium	984	913	1090	842	920	1080	1080	1130	821	1370	653	573	613	754	785	876	783	679	561
Manganese	114	94.9	56.1	58.7	78.7	87.7	61.4	21.9	20.4	108	23.1	29.6	22.4	48.2	41.4	62	42.3	39.3	35.4
Mercury	0.0606	0.0666	0.0689	0.0443	0.0388	0.0484	0.0468	0.0595	0.0595	0.0618	0.0545	0.106	0.106	0.0749	0.0737	0.0431	0.0495	0.0532	0.0566
Molybdenum	0.0379	0.0296	0.0249	0.0361	0.0266	0.0366	0.024	0.0556	0.0297	0.0314	0.0368	0.0397	0.0321	0.0705	0.0317	0.0343	0.0501	0.0657	0.0351
Nickel	0.288	0.284	0.4	0.221	0.127	0.254	0.242	0.383	0.439	0.536	0.996	0.575	0.22	0.622	0.382	0.431	1.45	0.598	0.431
Phosphorus	457	356	374	288	342	418	404	354	304	564	308	355	525	419	353	514	392	399	335
Potassium	1280	1170	1200	1150	1130	1260	1200	1240	1100	1460	1090	985	1140	1170	1150	1520	1210	1220	1090
Rhenium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	2.7	2.95	4.53	2.97	3.82	2.57	3.57	1.5	1.63	2.25	2.23	1.87	1.88	3.24	3.69	4.65	3.99	3.68	4.08
Selenium	0.065	0.079	0.072	0.066	0.066	0.083	0.085	0.062	0.109	0.07	0.077	0.097	0.059	0.08	0.069	0.054	0.079	0.065	0.065
Silver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	446	262	319	357	366	417	361	341	338	532	364	381	509	280	312	524	304	327	256
Strontium	8.86	14.5	19.7	16.8	10.3	13.6	14.3	25.1	12.3	19.5	13	7.46	5.46	18.7	15.1	8.69	15.2	15.3	10.1
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	0.00594	0.011	0.00681	0.0047	0.00459	0.00453	0.00565	0.00244	0.0028	0.00334	0.00421	0.00412	0.00399	0.00554	0.00413	0.00455	0.00484	0.00407	0.0041
Thorium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.0161	0.0263	0.0433	0.0167	0.0147	0.0342	0.00802	0.0104	0.00581	0.0221	0.0109	0.00737	0.00991	0.023	0.027	0.00706	0.0224	0.02	0.0126
Vanadium	0.459	0.325	0.377	0.184	0.1	0.305	0.314	0.52	0.685	0.84	0.902	0.887	0.197	0.729	0.37	0.365	2.49	0.77	0.505
Yttrium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	18.9	19.9	20.6	16.1	23.5	18.9	22.8	15.5	10.3	24.8	13.3	13.6	13.6	20.2	17.7	28.3	20.4	23.3	15
Zirconium	0.156	0.111	0.122	0.077	0.067	0.155	0.12	0.181	0.119	0.148	0.187	0.128	0.113	0.381	0.193	0.103	0.298	0.271	0.2

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available

Appendix V4-8F. Vegetation Metal Sampling

Species	Lichen (<i>Flavocetraria nivalis</i>)											
Sample ID	LSA-11	LSA-12	LSA-13A	LSA-13B	LSA-14	LSA-15	LSA-16	LSA-17	LSA-18	LSA-19	LSA-20	LSA-21
Date Sampled	15-AUG-14	14-AUG-14	16-AUG-14	16-AUG-14	16-AUG-14	15-AUG-14	16-AUG-14	14-AUG-14	14-AUG-14	14-AUG-14	13-AUG-14	14-AUG-14
ALS Sample ID	L1505032-22	L1505032-23	L1505032-24	L1505032-25	L1505032-26	L1505032-27	L1505032-28	L1505032-29	L1505032-30	L1505032-31	L1505032-32	L1505032-33
% Moisture	13.1	12.5	12.4	9.16	11.4	10.8	12.4	11.4	12.6	12.6	11.6	10.9
Metals (mg/kg wet weight)												
Aluminum	92.5	250	405	151	257	1300	312	133	131	951	351	224
Antimony	0.0025	0.0047	0.0066	0.0036	0.0048	0.0152	0.0157	0.0042	0.0041	0.0049	0.0044	0.0038
Arsenic	0.047	0.0722	0.137	0.1	0.0937	1.09	0.228	0.0736	0.0634	0.223	0.0657	0.142
Barium	9.31	6.69	5.01	2.71	5.46	5.47	2.56	18.9	9.19	5.21	7.77	6.95
Beryllium	0.0047	0.006	0.0103	0.0047	0.0074	0.0171	0.0065	0.0107	0.0037	0.0051	0.0079	0.0042
Bismuth	<0.0020	0.0052	0.0069	0.0035	0.005	0.0102	0.0068	0.004	0.0051	0.0038	0.0047	0.003
Boron	0.53	0.56	0.83	0.49	0.9	1.78	1.18	0.65	0.54	0.66	1	0.72
Cadmium	0.0666	0.0992	0.0864	0.0739	0.15	0.202	0.0697	0.0947	0.12	0.0753	0.0767	0.108
Calcium	3040	4120	10800	9300	9500	15900	8120	6240	7220	10000	12000	12200
Cesium	0.0289	0.039	0.0446	0.029	0.0366	0.0885	0.0265	0.0465	0.135	0.0393	0.0298	0.0326
Chromium	0.17	0.319	1.17	0.482	0.782	16.4	1.64	0.273	0.289	4.93	0.919	1.64
Cobalt	0.182	0.431	0.601	0.225	0.44	2.58	0.529	0.278	0.447	1.2	0.354	0.46
Copper	0.942	2.82	2.54	1.17	2.74	5.06	2.93	1.28	1.76	1.99	2.29	2.97
Gallium	98.4	442	599	203	354	2200	461	180	167	1590	523	384
Iron	-	-	-	-	-	-	-	-	-	-	-	-
Lead	0.389	0.99	1.03	0.676	0.607	1.19	0.998	0.674	0.604	0.489	0.468	0.45
Lithium	<0.10	0.17	0.34	0.12	0.2	0.86	<0.10	<0.10	<0.10	0.19	0.39	0.19
Magnesium	909	760	865	639	900	1590	690	909	733	1110	895	735
Manganese	45.4	40.4	37.9	27.9	29.7	101	35.8	87.9	56.5	67.2	35.8	71.7
Mercury	0.064	0.0823	0.086	0.0702	0.0795	0.094	0.142	0.0647	0.0706	0.0889	0.0545	0.0529
Molybdenum	0.0348	0.0302	0.0343	0.0233	0.0541	0.0561	0.0397	0.0324	0.0273	0.0347	0.0392	0.05
Nickel	0.383	0.471	1.27	0.484	1.01	6.84	1.23	0.448	0.796	2.83	0.77	1.27
Phosphorus	368	326	287	254	424	374	379	529	396	395	320	429
Potassium	1200	1130	1080	1020	1310	1110	1030	1460	1320	1140	1100	1280
Rhenium	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	3.24	2.8	2.03	1.58	2.79	2.79	1.32	5.05	4.17	3.06	2.24	3.11
Selenium	0.068	0.077	0.097	0.089	0.097	0.16	0.107	0.069	0.083	0.078	0.086	0.074
Silver	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	391	389	367	326	403	267	460	405	333	338	322	419
Strontium	9.29	7.74	12	8.89	11.1	11.8	6.94	17.5	10.3	8	15.5	11.7
Tellurium	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0054	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	0.00353	0.00447	0.00584	0.00348	0.00599	0.00736	0.00482	0.0082	0.00493	0.00328	0.00393	0.00411
Thorium	-	-	-	-	-	-	-	-	-	-	-	-
Tin	<0.020	<0.020	0.024	<0.020	<0.020	0.031	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Titanium	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.00902	0.0194	0.0182	0.00649	0.0136	0.0299	0.0113	0.0144	0.00579	0.00845	0.0197	0.011
Vanadium	0.211	1.96	1.35	0.518	0.812	4.36	1.22	0.392	0.36	3.93	1.3	0.85
Yttrium	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	18	18.7	13.7	10.1	22.3	32.7	15	26.6	20.3	16.6	15.8	23.9
Zirconium	0.119	0.185	0.329	0.136	0.24	0.688	0.197	0.148	0.084	0.167	0.281	0.155

Notes:

Sample CFW2-B-ARCTRUB was mislabelled and is actually *Arctostaphylos alpina*, and is the duplicate to CFW2 collected on the same date.

Berry sample CWF1 was mislabelled and is actually CFW1-B (thus a duplicate to CFW1-A).

(-) = not available