



LABERGE ENVIRONMENTAL
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Date Received: 13-SEP-16
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Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1829583
Project P.O. #: NOT SUBMITTED
Job Reference: CLINTON CREEK
C of C Numbers: 14-470934, 14-470935, 14-470936, 14-470937, 14-470938
Legal Site Desc:

Brent Mack, B.Sc.
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829583-1 TISSUE 06-SEP-16 SS1	L1829583-2 TISSUE 06-SEP-16 SS2	L1829583-3 TISSUE 06-SEP-16 SS3	L1829583-4 TISSUE 06-SEP-16 SS4	L1829583-5 TISSUE 06-SEP-16 SS5
Grouping	Analyte					
TISSUE						
Physical Tests	% Moisture (%)	74.3	72.7	71.1	73.2	73.8
Metals	Aluminum (Al)-Total (mg/kg)	34.5	9.5	11.9	14.3	33.2
	Antimony (Sb)-Total (mg/kg)	0.095	0.014	0.121	0.496	0.076
	Arsenic (As)-Total (mg/kg)	0.301	0.156	0.306	0.285	0.430
	Barium (Ba)-Total (mg/kg)	5.69	4.43	6.08	11.3	12.3
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium (Cd)-Total (mg/kg)	0.128	0.0589	0.106	0.198	0.196
	Calcium (Ca)-Total (mg/kg)	52200	41700	44500	66700	75900
	Cesium (Cs)-Total (mg/kg)	0.373	0.0649	0.363	0.514	0.705
	Chromium (Cr)-Total (mg/kg)	0.573	0.056	<0.20	0.40	0.72
	Cobalt (Co)-Total (mg/kg)	0.219	0.070	0.088	0.081	0.360
	Copper (Cu)-Total (mg/kg)	2.42	2.34	1.81	2.15	2.10
	Iron (Fe)-Total (mg/kg)	170	66.4	76.7	70.8	188
	Lead (Pb)-Total (mg/kg)	0.438	0.173	0.182	0.278	0.253
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1410	1340	1320	1720	2230
	Manganese (Mn)-Total (mg/kg)	49.5	42.7	48.7	40.5	78.7
	Mercury (Hg)-Total (mg/kg)	0.280	0.229	0.174	0.264	0.517
	Molybdenum (Mo)-Total (mg/kg)	0.088	0.063	0.063	0.060	0.087
	Nickel (Ni)-Total (mg/kg)	1.39	0.27	0.60	1.05	4.48
	Phosphorus (P)-Total (mg/kg)	29300	30500	30900	43300	46800
	Potassium (K)-Total (mg/kg)	9410	10600	8820	9450	8620
	Rubidium (Rb)-Total (mg/kg)	2.23	1.09	1.77	2.89	3.31
	Selenium (Se)-Total (mg/kg)	7.19	4.98	4.15	4.87	5.58
	Sodium (Na)-Total (mg/kg)	3800	4210	3590	3760	4820
	Strontium (Sr)-Total (mg/kg)	78.7	52.8	65.1	96.5	120
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	0.0279	0.0194	0.0248	0.0360	0.0362
	Tin (Sn)-Total (mg/kg)	0.26	0.18	<0.10	0.18	<0.10
	Uranium (U)-Total (mg/kg)	0.0127	0.0087	0.0133	0.0325	0.0711
	Vanadium (V)-Total (mg/kg)	0.43	0.24	0.39	0.99	1.28
	Zinc (Zn)-Total (mg/kg)	91.9	67.9	77.0	130	139
	Zirconium (Zr)-Total (mg/kg)	0.25	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829583-6 TISSUE 06-SEP-16 SS6	L1829583-7 TISSUE 06-SEP-16 SS7	L1829583-8 TISSUE 06-SEP-16 SS8	L1829583-9 TISSUE 06-SEP-16 SS9	L1829583-10 TISSUE 06-SEP-16 SS10
Grouping	Analyte					
TISSUE						
Physical Tests	% Moisture (%)	73.6	76.0	73.4	76.4	77.4
Metals	Aluminum (Al)-Total (mg/kg)	18.8	18.0	16.7	92.4	69.1
	Antimony (Sb)-Total (mg/kg)	0.035	0.028	0.015	0.090	0.107
	Arsenic (As)-Total (mg/kg)	0.676	0.317	0.257	0.714	0.531
	Barium (Ba)-Total (mg/kg)	8.72	8.94	4.99	13.5	12.1
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium (Cd)-Total (mg/kg)	0.129	0.093	0.0883	0.216	0.142
	Calcium (Ca)-Total (mg/kg)	55500	65500	39600	70700	57500
	Cesium (Cs)-Total (mg/kg)	0.804	0.914	0.163	0.831	0.988
	Chromium (Cr)-Total (mg/kg)	0.34	0.48	0.500	0.45	0.60
	Cobalt (Co)-Total (mg/kg)	0.185	0.203	0.174	0.417	0.347
	Copper (Cu)-Total (mg/kg)	2.88	2.35	2.69	2.66	2.79
	Iron (Fe)-Total (mg/kg)	102	123	121	260	243
	Lead (Pb)-Total (mg/kg)	0.177	0.153	0.052	0.364	0.227
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1640	1830	1430	1780	1770
	Manganese (Mn)-Total (mg/kg)	32.1	78.9	46.6	62.5	65.8
	Mercury (Hg)-Total (mg/kg)	0.459	0.533	0.179	0.612	0.492
	Molybdenum (Mo)-Total (mg/kg)	0.062	0.139	0.060	0.119	0.081
	Nickel (Ni)-Total (mg/kg)	1.33	2.20	1.39	2.74	3.02
	Phosphorus (P)-Total (mg/kg)	36200	39300	29000	42700	38100
	Potassium (K)-Total (mg/kg)	9320	10700	10500	10500	10200
	Rubidium (Rb)-Total (mg/kg)	4.34	3.89	1.68	7.00	5.92
	Selenium (Se)-Total (mg/kg)	6.09	6.09	6.54	5.60	5.79
	Sodium (Na)-Total (mg/kg)	4180	4730	4190	4670	4590
	Strontium (Sr)-Total (mg/kg)	89.6	99.2	53.7	110	93.0
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	0.0400	0.0338	0.0224	0.0354	0.0304
	Tin (Sn)-Total (mg/kg)	0.14	0.22	1.67	0.27	0.28
	Uranium (U)-Total (mg/kg)	0.0249	0.0306	0.0115	0.0787	0.0355
	Vanadium (V)-Total (mg/kg)	0.63	1.00	0.22	1.40	0.97
	Zinc (Zn)-Total (mg/kg)	94.3	124	72.3	142	122
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	0.33	0.21

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1829583-11 TISSUE 07-SEP-16 SS11	L1829583-12 TISSUE 07-SEP-16 SS12	L1829583-13 TISSUE 07-SEP-16 SS13	L1829583-14 TISSUE 07-SEP-16 SS14	L1829583-15 TISSUE 07-SEP-16 SS15
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	72.8	72.0	75.1	74.9	75.5	
Metals	Aluminum (Al)-Total (mg/kg)	30.8	22.2	77.5	47.7	135	
	Antimony (Sb)-Total (mg/kg)	0.023	0.036	0.074	0.032	0.069	
	Arsenic (As)-Total (mg/kg)	0.298	0.303	0.491	0.309	0.603	
	Barium (Ba)-Total (mg/kg)	5.91	8.03	9.65	6.56	19.4	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.0749	0.155	0.141	0.132	0.187	
	Calcium (Ca)-Total (mg/kg)	45700	51000	39700	42600	74700	
	Cesium (Cs)-Total (mg/kg)	0.259	0.254	0.214	0.0686	0.225	
	Chromium (Cr)-Total (mg/kg)	0.545	0.34	5.74	0.670	1.54	
	Cobalt (Co)-Total (mg/kg)	0.163	0.133	0.640	0.239	0.523	
	Copper (Cu)-Total (mg/kg)	2.58	1.90	3.41	2.82	4.58	
	Iron (Fe)-Total (mg/kg)	156	128	418	291	515	
	Lead (Pb)-Total (mg/kg)	0.174	0.375	0.242	0.220	0.348	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	1460	1520	1890	1500	2240	
	Manganese (Mn)-Total (mg/kg)	41.7	81.7	79.0	69.1	124	
	Mercury (Hg)-Total (mg/kg)	0.436	0.400	0.319	0.353	0.420	
	Molybdenum (Mo)-Total (mg/kg)	0.083	0.063	0.140	0.085	0.172	
	Nickel (Ni)-Total (mg/kg)	1.66	1.00	10.2	1.69	4.14	
	Phosphorus (P)-Total (mg/kg)	31000	32800	31100	31700	47400	
	Potassium (K)-Total (mg/kg)	9350	9500	11600	11700	11900	
	Rubidium (Rb)-Total (mg/kg)	1.37	2.07	2.05	1.83	1.95	
	Selenium (Se)-Total (mg/kg)	5.88	4.97	7.50	7.14	6.65	
	Sodium (Na)-Total (mg/kg)	3760	3810	4650	4530	4650	
	Strontium (Sr)-Total (mg/kg)	70.7	76.6	57.6	57.2	114	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.0208	0.0327	0.0565	0.0349	0.0312	
	Tin (Sn)-Total (mg/kg)	0.12	0.11	0.16	0.12	0.22	
	Uranium (U)-Total (mg/kg)	0.0260	0.0255	0.0316	0.0353	0.0554	
	Vanadium (V)-Total (mg/kg)	0.44	0.94	0.80	0.53	0.99	
	Zinc (Zn)-Total (mg/kg)	107	116	113	104	141	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	0.24	<0.20	0.45	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829583-16 TISSUE 07-SEP-16 SS16	L1829583-17 TISSUE 07-SEP-16 SS17	L1829583-18 TISSUE 07-SEP-16 SS18	L1829583-19 TISSUE 07-SEP-16 SS19	L1829583-20 TISSUE 07-SEP-16 SS20
Grouping	Analyte					
TISSUE						
Physical Tests	% Moisture (%)	75.4	73.7	74.6	73.3	72.3
Metals	Aluminum (Al)-Total (mg/kg)	20.3	53.6	87.1	23.7	92.8
	Antimony (Sb)-Total (mg/kg)	0.013	0.049	0.065	0.021	0.054
	Arsenic (As)-Total (mg/kg)	0.246	0.304	0.606	0.219	0.393
	Barium (Ba)-Total (mg/kg)	5.74	13.2	6.24	7.87	9.71
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium (Cd)-Total (mg/kg)	0.085	0.227	0.109	0.0984	0.244
	Calcium (Ca)-Total (mg/kg)	32700	54700	31500	40300	34400
	Cesium (Cs)-Total (mg/kg)	0.249	0.176	0.0644	0.0624	0.217
	Chromium (Cr)-Total (mg/kg)	0.25	1.00	2.69	0.409	1.34
	Cobalt (Co)-Total (mg/kg)	0.141	0.389	0.688	0.175	0.446
	Copper (Cu)-Total (mg/kg)	2.88	2.84	3.01	2.48	2.36
	Iron (Fe)-Total (mg/kg)	112	256	315	154	273
	Lead (Pb)-Total (mg/kg)	1.17	0.221	0.075	0.151	0.177
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1330	1710	4140	1500	1370
	Manganese (Mn)-Total (mg/kg)	46.6	147	101	82.8	91.6
	Mercury (Hg)-Total (mg/kg)	0.273	0.237	0.315	0.210	0.243
	Molybdenum (Mo)-Total (mg/kg)	0.055	0.126	0.041	0.069	0.116
	Nickel (Ni)-Total (mg/kg)	0.75	2.20	16.7	0.96	2.98
	Phosphorus (P)-Total (mg/kg)	24200	38500	28500	31400	23400
	Potassium (K)-Total (mg/kg)	11000	11100	11000	10700	8530
	Rubidium (Rb)-Total (mg/kg)	1.92	1.88	1.85	1.33	1.59
	Selenium (Se)-Total (mg/kg)	5.88	7.76	4.72	5.79	4.09
	Sodium (Na)-Total (mg/kg)	3890	4280	4390	4090	3200
	Strontium (Sr)-Total (mg/kg)	47.9	81.2	48.2	55.4	53.6
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	0.0236	0.0404	0.0216	0.0284	0.0233
	Tin (Sn)-Total (mg/kg)	0.17	0.15	0.10	<0.10	0.11
	Uranium (U)-Total (mg/kg)	0.0151	0.0214	0.0117	0.0104	0.0295
	Vanadium (V)-Total (mg/kg)	0.36	0.76	0.84	0.37	0.60
	Zinc (Zn)-Total (mg/kg)	79.8	122	85.2	87.5	69.2
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	0.29

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1829583-21 TISSUE 07-SEP-16 SS21	L1829583-22 TISSUE 07-SEP-16 SS22	L1829583-23 TISSUE 07-SEP-16 SS23	L1829583-24 TISSUE 07-SEP-16 SS24	L1829583-25 TISSUE 07-SEP-16 SS25
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	73.0	70.7	73.8	72.9	73.7	
Metals	Aluminum (Al)-Total (mg/kg)	123	133	8.1	5.1	21.0	
	Antimony (Sb)-Total (mg/kg)	0.076	0.046	0.013	0.092	0.013	
	Arsenic (As)-Total (mg/kg)	0.575	0.413	0.259	0.200	0.300	
	Barium (Ba)-Total (mg/kg)	15.2	8.81	7.22	6.18	6.18	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.176	0.123	0.073	0.095	0.114	
	Calcium (Ca)-Total (mg/kg)	48700	38000	38600	45400	37200	
	Cesium (Cs)-Total (mg/kg)	0.212	0.355	0.767	0.586	0.782	
	Chromium (Cr)-Total (mg/kg)	2.84	1.52	<0.20	<0.20	0.29	
	Cobalt (Co)-Total (mg/kg)	0.596	0.295	0.099	0.066	0.169	
	Copper (Cu)-Total (mg/kg)	3.54	3.11	1.81	2.09	1.94	
	Iron (Fe)-Total (mg/kg)	558	333	74.6	68.2	124	
	Lead (Pb)-Total (mg/kg)	0.265	0.221	<0.050	<0.050	0.056	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	1790	1360	1370	1520	1350	
	Manganese (Mn)-Total (mg/kg)	123	58.3	20.4	38.6	41.6	
	Mercury (Hg)-Total (mg/kg)	0.449	0.153	0.226	0.279	0.249	
	Molybdenum (Mo)-Total (mg/kg)	0.168	0.142	0.060	0.059	0.072	
	Nickel (Ni)-Total (mg/kg)	5.51	2.45	0.60	0.92	1.24	
	Phosphorus (P)-Total (mg/kg)	32500	25800	27600	31500	26300	
	Potassium (K)-Total (mg/kg)	9620	8460	9840	9560	10000	
	Rubidium (Rb)-Total (mg/kg)	1.71	2.25	3.19	2.57	3.42	
	Selenium (Se)-Total (mg/kg)	6.52	4.47	4.06	4.66	5.15	
	Sodium (Na)-Total (mg/kg)	4050	2890	3860	3540	3600	
	Strontium (Sr)-Total (mg/kg)	78.5	52.8	53.7	72.1	58.7	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.0389	0.0309	0.0269	0.0211	0.0276	
	Tin (Sn)-Total (mg/kg)	0.14	<0.10	0.19	<0.10	0.17	
	Uranium (U)-Total (mg/kg)	0.0584	0.0242	0.0072	0.0179	0.0179	
	Vanadium (V)-Total (mg/kg)	0.97	0.70	0.24	0.27	0.28	
	Zinc (Zn)-Total (mg/kg)	97.9	65.9	90.6	72.7	71.5	
	Zirconium (Zr)-Total (mg/kg)	0.36	0.35	<0.20	<0.20	<0.20	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1829583-26 TISSUE 07-SEP-16 SS26	L1829583-27 TISSUE 07-SEP-16 SS27	L1829583-28 TISSUE 07-SEP-16 SS28	L1829583-29 TISSUE 07-SEP-16 SS29	L1829583-30 TISSUE 07-SEP-16 SS30
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	76.6	74.1	76.4	71.7	70.8	
Metals	Aluminum (Al)-Total (mg/kg)	12.0	14.1	18.1	52.2	11.4	
	Antimony (Sb)-Total (mg/kg)	0.023	0.021	0.379	0.031	0.016	
	Arsenic (As)-Total (mg/kg)	0.253	0.287	0.382	0.466	0.292	
	Barium (Ba)-Total (mg/kg)	7.71	10.7	8.33	7.98	7.25	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.0933	0.310	0.140	0.109	0.134	
	Calcium (Ca)-Total (mg/kg)	64900	50900	55400	46100	38600	
	Cesium (Cs)-Total (mg/kg)	0.120	0.374	0.410	0.631	0.784	
	Chromium (Cr)-Total (mg/kg)	0.289	<0.20	0.38	0.67	0.20	
	Cobalt (Co)-Total (mg/kg)	0.128	0.148	0.119	0.223	0.115	
	Copper (Cu)-Total (mg/kg)	2.93	2.29	1.89	3.29	2.08	
	Iron (Fe)-Total (mg/kg)	123	124	113	430	90.7	
	Lead (Pb)-Total (mg/kg)	0.096	0.105	0.121	0.234	0.109	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	1630	1560	1580	1500	1370	
	Manganese (Mn)-Total (mg/kg)	57.7	117	47.6	29.0	43.5	
	Mercury (Hg)-Total (mg/kg)	0.383	0.161	0.575	0.468	0.314	
	Molybdenum (Mo)-Total (mg/kg)	0.058	0.066	0.084	0.094	0.076	
	Nickel (Ni)-Total (mg/kg)	0.79	0.75	1.31	2.43	1.49	
	Phosphorus (P)-Total (mg/kg)	37600	33500	34600	29100	26800	
	Potassium (K)-Total (mg/kg)	10100	9970	10700	9110	8860	
	Rubidium (Rb)-Total (mg/kg)	1.57	1.91	3.44	3.34	3.55	
	Selenium (Se)-Total (mg/kg)	6.57	6.93	5.48	5.33	5.65	
	Sodium (Na)-Total (mg/kg)	4590	4080	4560	3500	3080	
	Strontium (Sr)-Total (mg/kg)	99.8	85.3	79.7	66.7	75.8	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.0288	0.0180	0.0203	0.0397	0.0174	
	Tin (Sn)-Total (mg/kg)	<0.10	0.24	0.19	0.11	0.12	
	Uranium (U)-Total (mg/kg)	0.0160	0.0173	0.0272	0.0269	0.0281	
	Vanadium (V)-Total (mg/kg)	0.48	0.31	0.40	0.44	0.40	
	Zinc (Zn)-Total (mg/kg)	122	95.0	119	82.0	80.9	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

18-OCT-16 18:10 (MT)

Version: FINAL

		Sample ID	L1829583-31	L1829583-32	L1829583-33	L1829583-34	L1829583-35
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	05-SEP-16	05-SEP-16	05-SEP-16	05-SEP-16	05-SEP-16
		Sampled Time					
		Client ID	AG1-LIVER	AG1-MUSCLE	AG2-LIVER	AG2-MUSCLE	AG3-LIVER
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	69.1	74.4	69.1	69.5	59.9	
Metals	Aluminum (Al)-Total (mg/kg)	<5.0	2.9	<5.0	18.2	<5.0	
	Antimony (Sb)-Total (mg/kg)	0.015	<0.010	<0.010	<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)	0.033	0.048	0.070	0.121	0.066	
	Barium (Ba)-Total (mg/kg)	<0.050	1.57	<0.050	2.27	0.080	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	3.98	0.0303	0.428	0.0364	0.222	
	Calcium (Ca)-Total (mg/kg)	162	24100	174	15000	921	
	Cesium (Cs)-Total (mg/kg)	0.0292	0.142	0.0287	0.0755	0.0125	
	Chromium (Cr)-Total (mg/kg)	<0.20	0.407	<0.20	0.288	<0.20	
	Cobalt (Co)-Total (mg/kg)	1.60	0.092	0.513	0.115	0.346	
	Copper (Cu)-Total (mg/kg)	4.95	1.54	5.47	1.54	4.10	
	Iron (Fe)-Total (mg/kg)	274	41.8	81.9	73.9	67.8	
	Lead (Pb)-Total (mg/kg)	<0.050	0.022	<0.050	0.043	<0.050	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	428	1290	544	1020	342	
	Manganese (Mn)-Total (mg/kg)	3.94	6.55	3.67	9.19	3.79	
	Mercury (Hg)-Total (mg/kg)	0.780	0.782	0.508	0.266	0.319	
	Molybdenum (Mo)-Total (mg/kg)	0.361	0.053	0.437	0.060	0.313	
	Nickel (Ni)-Total (mg/kg)	<0.20	0.28	<0.20	0.26	<0.20	
	Phosphorus (P)-Total (mg/kg)	7410	21500	9640	15600	6300	
	Potassium (K)-Total (mg/kg)	8310	12800	10100	12100	6270	
	Rubidium (Rb)-Total (mg/kg)	2.12	2.27	3.69	2.62	2.38	
	Selenium (Se)-Total (mg/kg)	11.4	5.26	8.52	5.14	6.25	
	Sodium (Na)-Total (mg/kg)	3310	2410	2660	2130	1980	
	Strontium (Sr)-Total (mg/kg)	0.29	27.2	0.21	16.8	1.16	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.156	0.0304	0.159	0.0297	0.119	
	Tin (Sn)-Total (mg/kg)	0.21	<0.10	0.14	<0.10	0.33	
	Uranium (U)-Total (mg/kg)	0.0042	0.0051	<0.0020	0.0055	<0.0020	
	Vanadium (V)-Total (mg/kg)	0.25	<0.10	0.19	0.15	<0.10	
	Zinc (Zn)-Total (mg/kg)	56.9	53.5	77.7	45.3	52.7	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829583-36	L1829583-37	L1829583-38	L1829583-39	L1829583-40
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	05-SEP-16	05-SEP-16	05-SEP-16	05-SEP-16	05-SEP-16
		Sampled Time					
		Client ID	AG3-MUSCLE	AG4-LIVER	AG4-MUSCLE	AG5-LIVER	AG5-MUSCLE
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	66.9	60.2	70.6	75.9	71.2	
Metals	Aluminum (Al)-Total (mg/kg)	<2.0	<5.0	<2.0	<5.0	<2.0	
	Antimony (Sb)-Total (mg/kg)	0.255	<0.010	<0.010	<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)	0.298	0.050	0.055	0.053	0.057	
	Barium (Ba)-Total (mg/kg)	1.04	<0.050	0.581	0.111	1.21	
	Beryllium (Be)-Total (mg/kg)	0.024	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	0.259	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.0319	0.666	0.0255	1.33	0.0227	
	Calcium (Ca)-Total (mg/kg)	14700	146	12900	514	14900	
	Cesium (Cs)-Total (mg/kg)	0.0574	0.0133	0.0407	0.0474	0.0798	
	Chromium (Cr)-Total (mg/kg)	0.145	0.63	0.146	<0.20	0.122	
	Cobalt (Co)-Total (mg/kg)	0.100	0.437	0.043	0.595	0.111	
	Copper (Cu)-Total (mg/kg)	1.18	3.66	1.35	6.58	1.63	
	Iron (Fe)-Total (mg/kg)	23.8	96.8	23.5	131	42.1	
	Lead (Pb)-Total (mg/kg)	0.142	<0.050	<0.020	<0.050	<0.020	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	942	316	989	794	1190	
	Manganese (Mn)-Total (mg/kg)	2.93	2.16	1.77	6.67	6.63	
	Mercury (Hg)-Total (mg/kg)	0.321	0.196	0.354	0.588	0.349	
	Molybdenum (Mo)-Total (mg/kg)	0.084	0.221	0.024	0.419	0.029	
	Nickel (Ni)-Total (mg/kg)	0.30	<0.20	<0.20	<0.20	<0.20	
	Phosphorus (P)-Total (mg/kg)	13500	5600	14200	14100	16000	
	Potassium (K)-Total (mg/kg)	10900	5560	12800	13600	13300	
	Rubidium (Rb)-Total (mg/kg)	2.20	2.33	2.68	6.44	3.39	
	Selenium (Se)-Total (mg/kg)	4.09	6.16	3.92	14.4	6.26	
	Sodium (Na)-Total (mg/kg)	1550	2040	1840	4540	2100	
	Strontium (Sr)-Total (mg/kg)	17.5	0.24	13.3	0.83	18.6	
	Tellurium (Te)-Total (mg/kg)	0.034	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.280	0.116	0.0209	0.177	0.0247	
	Tin (Sn)-Total (mg/kg)	0.16	<0.10	<0.10	0.51	<0.10	
	Uranium (U)-Total (mg/kg)	0.0033	<0.0020	<0.0020	0.0024	0.0029	
	Vanadium (V)-Total (mg/kg)	0.15	<0.10	<0.10	0.11	<0.10	
	Zinc (Zn)-Total (mg/kg)	38.6	39.9	36.9	82.4	49.8	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829583-41	L1829583-42	L1829583-43	L1829583-44	L1829583-45
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	07-SEP-16	07-SEP-16	07-SEP-16	07-SEP-16	09-SEP-16
		Sampled Time					
		Client ID	AG6-LIVER	AG6-MUSCLE	AG7-LIVER	AG7-MUSCLE	AG8-LIVER
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	60.9	71.4	55.8	69.9	71.3	
Metals	Aluminum (Al)-Total (mg/kg)	<5.0	4.4	<5.0	<2.0	<5.0	
	Antimony (Sb)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)	0.070	0.043	0.046	0.057	0.072	
	Barium (Ba)-Total (mg/kg)	<0.050	1.46	<0.050	0.726	0.057	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.644	0.0514	1.05	0.0278	0.464	
	Calcium (Ca)-Total (mg/kg)	172	19200	112	13500	221	
	Cesium (Cs)-Total (mg/kg)	0.0166	0.0870	0.0107	0.0469	0.0467	
	Chromium (Cr)-Total (mg/kg)	0.25	0.098	<0.20	0.140	<0.20	
	Cobalt (Co)-Total (mg/kg)	0.373	0.077	0.637	0.072	0.458	
	Copper (Cu)-Total (mg/kg)	3.69	1.77	3.25	1.66	6.60	
	Iron (Fe)-Total (mg/kg)	145	31.6	141	30.6	100	
	Lead (Pb)-Total (mg/kg)	<0.050	0.022	<0.050	<0.020	<0.050	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	336	1210	285	1120	626	
	Manganese (Mn)-Total (mg/kg)	2.41	5.07	2.87	4.60	6.89	
	Mercury (Hg)-Total (mg/kg)	0.312	0.404	0.232	0.390	0.728	
	Molybdenum (Mo)-Total (mg/kg)	0.215	0.026	0.226	0.022	0.409	
	Nickel (Ni)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	
	Phosphorus (P)-Total (mg/kg)	5700	18500	4980	15200	11100	
	Potassium (K)-Total (mg/kg)	5850	14200	4970	14000	10400	
	Rubidium (Rb)-Total (mg/kg)	2.19	2.80	1.57	2.31	4.58	
	Selenium (Se)-Total (mg/kg)	6.37	3.64	9.73	5.13	9.98	
	Sodium (Na)-Total (mg/kg)	2280	2200	1870	1860	2340	
	Strontium (Sr)-Total (mg/kg)	0.27	19.8	0.17	14.9	0.32	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.0848	0.0285	0.0745	0.0220	0.276	
	Tin (Sn)-Total (mg/kg)	0.24	<0.10	0.22	<0.10	0.44	
	Uranium (U)-Total (mg/kg)	<0.0020	0.0025	<0.0020	<0.0020	<0.0020	
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10	
	Zinc (Zn)-Total (mg/kg)	46.7	45.5	36.4	37.2	77.9	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829583-46	L1829583-47	L1829583-48	L1829583-49	L1829583-50
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16
		Sampled Time					
		Client ID	AG8-MUSCLE	AG9-LIVER	AG9-MUSCLE	AG-10-LIVER	AG-10-MUSCLE
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	71.6	71.7	73.0	65.5	72.5	
Metals	Aluminum (Al)-Total (mg/kg)	4.0	<5.0	12.1	<5.0	2.6	
	Antimony (Sb)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)	0.069	0.097	0.081	0.129	0.077	
	Barium (Ba)-Total (mg/kg)	2.23	0.066	2.32	<0.050	1.32	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.0449	0.549	0.0642	0.141	0.0191	
	Calcium (Ca)-Total (mg/kg)	22600	246	19200	191	19300	
	Cesium (Cs)-Total (mg/kg)	0.0600	0.0455	0.0464	0.0374	0.0801	
	Chromium (Cr)-Total (mg/kg)	0.237	<0.20	0.388	<0.20	0.167	
	Cobalt (Co)-Total (mg/kg)	0.055	0.287	0.079	0.325	0.052	
	Copper (Cu)-Total (mg/kg)	2.07	5.65	2.08	4.87	2.18	
	Iron (Fe)-Total (mg/kg)	28.2	121	66.5	113	34.0	
	Lead (Pb)-Total (mg/kg)	0.028	<0.050	0.036	<0.050	<0.020	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	1350	578	1300	479	1320	
	Manganese (Mn)-Total (mg/kg)	8.71	3.92	10.7	4.05	4.56	
	Mercury (Hg)-Total (mg/kg)	0.401	0.653	0.347	0.626	0.402	
	Molybdenum (Mo)-Total (mg/kg)	0.034	0.398	0.056	0.401	0.026	
	Nickel (Ni)-Total (mg/kg)	0.25	<0.20	0.39	<0.20	<0.20	
	Phosphorus (P)-Total (mg/kg)	21900	10100	20100	8570	20400	
	Potassium (K)-Total (mg/kg)	15100	11300	15400	8450	15500	
	Rubidium (Rb)-Total (mg/kg)	2.15	3.60	1.90	3.26	2.69	
	Selenium (Se)-Total (mg/kg)	3.39	9.86	4.20	8.46	4.04	
	Sodium (Na)-Total (mg/kg)	2120	2610	2100	2260	2170	
	Strontium (Sr)-Total (mg/kg)	28.9	0.35	23.8	0.29	22.7	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.0244	0.206	0.0287	0.210	0.0312	
	Tin (Sn)-Total (mg/kg)	<0.10	0.33	0.14	0.27	0.16	
	Uranium (U)-Total (mg/kg)	0.0030	<0.0020	0.0039	<0.0020	<0.0020	
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10	
	Zinc (Zn)-Total (mg/kg)	57.0	60.7	49.3	61.1	61.9	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829583-51	L1829583-52	L1829583-53	L1829583-54	L1829583-55
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16
		Sampled Time					
		Client ID	AG11-LIVER	AG11-MUSCLE	AG12-LIVER	AG12-MUSCLE	AG13-LIVER
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)	74.4	72.1	74.2	72.9	76.3	
Metals	Aluminum (Al)-Total (mg/kg)	6.9	2.6	<5.0	2.0	5.3	
	Antimony (Sb)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)	0.150	0.071	0.060	0.085	0.116	
	Barium (Ba)-Total (mg/kg)	0.451	1.53	0.090	1.86	0.169	
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Boron (B)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Cadmium (Cd)-Total (mg/kg)	0.250	0.0127	0.226	0.0258	0.229	
	Calcium (Ca)-Total (mg/kg)	738	18700	226	20600	929	
	Cesium (Cs)-Total (mg/kg)	0.0534	0.0345	0.0537	0.0559	0.201	
	Chromium (Cr)-Total (mg/kg)	0.87	0.361	<0.20	0.217	<0.20	
	Cobalt (Co)-Total (mg/kg)	0.332	0.045	0.336	0.059	0.719	
	Copper (Cu)-Total (mg/kg)	5.97	2.00	5.71	2.22	5.25	
	Iron (Fe)-Total (mg/kg)	159	29.6	145	35.7	177	
	Lead (Pb)-Total (mg/kg)	<0.050	<0.020	<0.050	<0.020	<0.050	
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50	
	Magnesium (Mg)-Total (mg/kg)	798	1210	593	1430	686	
	Manganese (Mn)-Total (mg/kg)	8.24	4.86	5.20	7.44	6.72	
	Mercury (Hg)-Total (mg/kg)	0.781	0.390	0.549	0.335	0.424	
	Molybdenum (Mo)-Total (mg/kg)	0.395	0.047	0.406	0.034	0.403	
	Nickel (Ni)-Total (mg/kg)	0.64	0.31	<0.20	0.23	<0.20	
	Phosphorus (P)-Total (mg/kg)	11600	18900	9810	21900	12300	
	Potassium (K)-Total (mg/kg)	13300	14200	11400	16200	13200	
	Rubidium (Rb)-Total (mg/kg)	4.29	2.26	4.33	2.69	8.03	
	Selenium (Se)-Total (mg/kg)	10.9	3.76	11.7	4.75	11.3	
	Sodium (Na)-Total (mg/kg)	3990	1880	2770	2210	3880	
	Strontium (Sr)-Total (mg/kg)	1.97	21.1	0.35	25.4	1.34	
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020	
	Thallium (Tl)-Total (mg/kg)	0.167	0.0260	0.245	0.0319	0.338	
	Tin (Sn)-Total (mg/kg)	1.45	0.11	0.22	0.16	1.69	
	Uranium (U)-Total (mg/kg)	0.0033	<0.0020	<0.0020	0.0029	0.0020	
	Vanadium (V)-Total (mg/kg)	0.13	<0.10	<0.10	<0.10	0.11	
	Zinc (Zn)-Total (mg/kg)	74.6	52.1	68.9	54.0	66.3	
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829583-56	L1829583-57	L1829583-58	L1829583-59	L1829583-60
		Description	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
		Sampled Date	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16	09-SEP-16
		Sampled Time					
		Client ID	AG13-MUSCLE	AG14-LIVER	AG14-MUSCLE	AG15-LIVER	AG15-MUSCLE
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		75.5	78.8	74.0	61.7	70.4
Metals	Aluminum (Al)-Total (mg/kg)		5.7	<5.0	<2.0	<5.0	<2.0
	Antimony (Sb)-Total (mg/kg)		<0.010	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		0.130	0.085	0.080	0.033	0.055
	Barium (Ba)-Total (mg/kg)		2.81	0.258	1.46	<0.050	1.12
	Beryllium (Be)-Total (mg/kg)		<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)		<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)		<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium (Cd)-Total (mg/kg)		0.0400	0.486	0.0275	0.661	0.0203
	Calcium (Ca)-Total (mg/kg)		27400	514	21400	96	20900
	Cesium (Cs)-Total (mg/kg)		0.353	0.0837	0.0871	0.0291	0.159
	Chromium (Cr)-Total (mg/kg)		0.479	<0.20	0.347	<0.20	0.166
	Cobalt (Co)-Total (mg/kg)		0.227	0.829	0.076	0.683	0.057
	Copper (Cu)-Total (mg/kg)		1.92	6.27	1.65	3.62	1.67
	Iron (Fe)-Total (mg/kg)		71.2	151	28.8	141	22.4
	Lead (Pb)-Total (mg/kg)		0.030	<0.050	0.027	<0.050	<0.020
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)		1460	770	1390	348	1200
	Manganese (Mn)-Total (mg/kg)		21.2	8.96	7.18	3.42	7.02
	Mercury (Hg)-Total (mg/kg)		0.288	0.883	0.437	0.289	0.375
	Molybdenum (Mo)-Total (mg/kg)		0.073	0.504	0.032	0.304	0.023
	Nickel (Ni)-Total (mg/kg)		0.41	0.21	0.31	<0.20	<0.20
	Phosphorus (P)-Total (mg/kg)		25400	12700	21700	6140	20300
	Potassium (K)-Total (mg/kg)		16500	16300	16600	6730	13900
	Rubidium (Rb)-Total (mg/kg)		5.33	6.77	3.10	1.94	2.15
	Selenium (Se)-Total (mg/kg)		5.57	12.4	4.30	12.4	7.30
	Sodium (Na)-Total (mg/kg)		2460	4060	2360	1920	2120
	Strontium (Sr)-Total (mg/kg)		36.7	1.10	27.0	0.15	28.6
	Tellurium (Te)-Total (mg/kg)		<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)		0.0479	0.320	0.0330	0.102	0.0192
	Tin (Sn)-Total (mg/kg)		0.12	1.56	0.13	0.29	<0.10
	Uranium (U)-Total (mg/kg)		0.0103	0.0020	0.0050	<0.0020	0.0043
	Vanadium (V)-Total (mg/kg)		0.11	<0.10	<0.10	0.17	<0.10
	Zinc (Zn)-Total (mg/kg)		63.6	72.4	48.4	44.2	42.3
	Zirconium (Zr)-Total (mg/kg)		<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Antimony (Sb)-Total	DUP-H	L1829583-10, -27, -28, -3, -35, -4, -41, -43, -45, -49, -5, -59, -6, -7, -9
Duplicate	Chromium (Cr)-Total	DUP-H	L1829583-10, -27, -28, -3, -35, -4, -41, -43, -45, -49, -5, -59, -6, -7, -9
Duplicate	Iron (Fe)-Total	DUP-H	L1829583-12, -16, -20, -22, -23, -24, -25, -29, -30, -31, -33, -37, -39, -47
Duplicate	Iron (Fe)-Total	DUP-H	L1829583-47
Method Blank	Manganese (Mn)-Total	MB-LOR	L1829583-1, -11, -13, -14, -15, -17, -18, -19, -2, -21, -26, -32, -34, -36, -38, -40, -42, -44, -46, -48, -50, -52, -54, -56, -58, -60, -8
Method Blank	Manganese (Mn)-Total	MB-LOR	L1829583-1, -11, -13, -14, -15, -17, -18, -19, -2, -21, -26, -32, -34, -36, -38, -40, -42, -44, -46, -48, -50, -52, -54, -56, -58, -60, -8
Method Blank	Thallium (Tl)-Total	MB-LOR	L1829583-10, -27, -28, -3, -35, -4, -41, -43, -45, -49, -5, -59, -6, -7, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-DRY-CVAFS-N-VA	Tissue	Mercury in Tissue by CVAFS (DRY)	EPA 200.3, EPA 245.7
<p>This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.</p>			
HG-DRY-MICR-CVAF-VA	Tissue	Mercury in Tissue by CVAFS Micro (DRY)	EPA 200.3, EPA 245.7
<p>This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.</p>			
MET-DRY-CCMS-N-VA	Tissue	Metals in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A
<p>This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).</p> <p>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.</p>			
MET-DRY-MICR-HRMS-VA	Tissue	Metals in Tissue by HR-ICPMS Micro (DRY)	EPA 200.3/200.8
<p>Trace metals in tissue are analyzed by high resolution inductively coupled plasma mass spectrometry (HR-ICPMS) modified from US EPA Method 200.8, (Revision 5.5). The sample preparation procedure is modified from US EPA 200.3. Analytical results are reported on dry weight basis.</p> <p>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.</p>			
MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM D2974-00 Method A
<p>This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.</p>			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

Reference Information

14-470934

14-470935

14-470936

14-470937

14-470938

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.