

SUMMARY STATISTICS LAKE SEDIMENT 4-ACID (ICP-MS)				LAKE SEDIMENT GEOCHEMICAL DATA BANCROFT, ON AREA (PARTS OF 031C, D, E AND F)														* NEW RE-ANALYSIS DATA *						
Element	Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	K	La
Lower Detection Limit	20	0.02	0.2	100	1	1	0.04	0.02	0.02	0.02	0.2	1	0.1	0.02	0.1	0.1	0.1	0.02	0.02	0.1	0.02	0.1	0.02	0.1
Unit	PPB	%	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	%	PPM
Dissolution	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
Total Sites	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362
Total Sites with 4-acid Data	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362
Missing Values	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Sites Below Det. Lim.	8	0	34	362	0	257	64	0	0	0	1	0	2	0	0	1	7	0	0	0	0	6	1	0
Unique Values	148	252	59	1	249	7	30	196	136	359	166	51	27	344	145	103	47	242	291	153	175	51	118	316
Mean	95	2.14	1.7	<100	254	<1	0.08	2.40	0.84	71.72	8.6	19	0.7	30.63	7.5	4.3	1.7	2.10	4.56	8.7	0.96	1.5	0.46	57.1
Median	85	1.79	1.4	<100	186	<1	0.06	1.29	0.78	58.95	7.2	18	0.5	28.37	5.9	3.3	1.5	1.52	3.74	6.8	0.68	1.2	0.30	44.1
Geometric Mean	81	1.65	1.1	<100	199	<1	0.06	1.44	0.75	48.73	6.5	16	0.6	27.19	5.2	3.0	1.3	1.48	3.41	6.1	0.67	1.1	0.30	38.4
Variance	4743	2.13	2.5	0	36651	1	0.00	20.77	0.14	7962.68	46.5	130	0.3	219.41	88.3	26.9	1.8	3.77	11.32	106.8	0.76	3.7	0.21	4333.7
Standard Deviation	69	1.46	1.6	0	191	1	0.06	4.56	0.38	89.23	6.8	11	0.5	14.81	9.4	5.2	1.3	1.94	3.36	10.3	0.87	1.9	0.46	65.8
Kurtosis	72	0.31	9.9	-	2	61	7.29	21.73	1.88	161.86	11.7	1	8.0	1.63	151.7	129.4	53.3	7.57	0.90	132.5	4.28	144.4	3.54	82.5
Skewness	6	0.95	2.5	-	2	6	2.27	4.62	1.05	10.70	2.6	1	2.4	1.13	10.4	9.4	5.2	2.37	1.17	9.5	1.93	10.1	1.87	7.5
Coefficient of Variation	72	68.09	93.1	0	75	98	79.14	189.70	45.33	124.41	79.2	59	75.1	48.35	126.1	121.9	80.3	92.51	73.75	119.3	90.76	126.9	99.96	115.2
robust Coefficient Of Variation	48	82.00	79.4	0	82	74	64.86	56.46	41.10	83.02	71.3	66	59.3	44.46	65.3	69.6	69.2	84.28	80.62	72.8	98.66	61.8	111.20	82.4
Minimum	<20	0.10	<0.1	<100	35	<1	<0.04	0.38	0.09	1.26	<0.2	1	<0.1	2.02	0.2	<0.1	<0.1	0.06	0.20	0.1	0.04	<0.1	<0.02	1.0
1 percentile	<20	0.18	<0.1	<100	42	<1	<0.04	0.40	0.13	2.50	0.4	2	0.1	4.69	0.2	0.2	<0.1	0.16	0.38	0.3	0.09	<0.1	0.03	1.4
2 percentile	<20	0.25	<0.1	<100	49	<1	<0.04	0.43	0.20	3.19	0.8	4	0.2	6.50	0.4	0.2	<0.1	0.22	0.54	0.4	0.12	0.1	0.06	2.4
5 percentile	31	0.39	<0.1	<100	67	<1	<0.04	0.51	0.31	7.03	1.5	5	0.2	12.56	0.8	0.5	0.2	0.30	0.85	0.9	0.17	0.2	0.07	5.1
10 percentile	44	0.59	0.2	<100	85	<1	<0.04	0.68	0.43	12.76	2.1	7	0.3	15.24	1.7	1.0	0.4	0.45	1.12	1.9	0.23	0.4	0.09	9.2
20 percentile	54	0.85	0.6	<100	109	<1	0.04	0.85	0.55	24.02	3.5	9	0.3	18.35	2.9	1.7	0.7	0.79	1.69	3.4	0.31	0.6	0.12	19.7
25 percentile	60	1.00	0.7	<100	120	<1	0.05	0.93	0.57	29.87	4.1	10	0.4	20.23	3.6	2.0	0.9	0.91	2.01	4.3	0.35	0.7	0.15	25.1
30 percentile	64	1.16	0.8	<100	130	<1	0.05	0.99	0.61	36.55	4.8	12	0.4	22.27	4.1	2.4	1.1	1.00	2.30	4.9	0.40	0.9	0.16	29.9
40 percentile	72	1.48	1.1	<100	163	<1	0.06	1.13	0.70	46.68	6.0	14	0.5	25.43	4.9	2.8	1.2	1.26	2.95	5.8	0.53	1.0	0.23	37.0
50 percentile	85	1.79	1.4	<100	186	<1	0.06	1.29	0.78	58.95	7.2	18	0.5	28.37	5.9	3.3	1.5	1.52	3.74	6.8	0.68	1.2	0.30	44.1
60 percentile	95	2.20	1.7	<100	234	<1	0.07	1.47	0.85	70.25	8.8	21	0.6	30.59	7.3	4.0	1.8	1.79	4.53	8.3	0.82	1.4	0.38	54.4
70 percentile	107	2.64	1.9	<100	292	<1	0.09	1.73	0.96	87.19	10.2	24	0.8	34.33	8.3	4.6	2.0	2.31	5.43	9.4	1.14	1.6	0.51	65.3
75 percentile	114	2.98	2.2	<100	325	1	0.10	1.91	1.00	95.89	11.0	26	0.8	37.24	8.8	5.1	2.3	2.63	6.08	10.9	1.25	1.7	0.60	74.0
80 percentile	122	3.30	2.4	<100	370	1	0.11	2.13	1.13	101.71	11.9	28	0.9	40.54	9.8	5.6	2.4	2.96	7.37	11.8	1.41	2.0	0.72	86.2
90 percentile	156	4.30	3.3	<100	524	2	0.16	2.60	1.35	130.60	15.2	34	1.3	51.83	13.3	7.3	3.0	4.27	9.64	15.8	2.12	2.6	1.12	111.7
95 percentile	186	5.22	5.0	<100	721	2	0.21	10.77	1.52	161.70	21.2	41	1.7	60.89	18.2	10.7	3.4	6.72	11.94	20.4	2.82	4.0	1.52	131.0
98 percentile	254	5.92	6.7	<100	789	2	0.28	23.74	1.92	214.39	29.6	51	2.2	70.23	23.6	15.2	4.1	8.31	14.02	27.9	3.89	5.0	1.93	158.6
99 percentile	298	6.20	7.5	<100	838	4	0.35	29.24	2.01	307.71	37.4	56	3.0	81.73	35.0	20.0	5.1	9.92	14.46	36.5	4.03	7.2	2.21	218.7
Maximum	966	6.84	12.7	<100	1175	10	0.47	30.29	2.65	1458.20	58.8	63	3.8	89.32	151.0	80.3	17.4	14.48	16.64	161.0	5.30	30.4	2.49	879.9

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Element	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm
Lower Detection Limit	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04	0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1
Unit	PPM	PPM	%	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM
Dissolution	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
Total Sites	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362
Total Sites with 4-acid Data	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362
Missing Values	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Sites Below Det. Lim.	0	24	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	0	142	11	0	0	24
Unique Values	127	24	94	294	278	283	266	312	171	187	332	218	200	157	75	120	176	26	190	7	42	121	188	27
Mean	6.0	0.6	0.34	692	3.67	0.466	2.80	56.3	13.0	0.135	12.26	14.6	14.1	0.85	0.28	5.7	9.9	0.7	135	0.1	1.3	5.4	0.108	0.6
Median	5.0	0.5	0.25	366	2.70	0.264	2.30	44.7	11.7	0.115	8.44	11.3	9.9	0.72	0.17	5.4	7.9	0.5	105	0.1	1.0	4.7	0.085	0.5
Geometric Mean	4.7	0.4	0.26	371	2.73	0.256	2.15	38.3	11.6	0.112	9.02	9.8	10.4	0.68	0.20	4.8	6.9	0.5	111	0.1	0.9	4.1	0.080	0.4
Variance	18.1	0.4	0.07	1314973	12.64	0.285	4.00	4006.9	43.2	0.008	161.09	242.0	130.1	0.32	0.18	9.9	114.5	0.3	8173	0.0	2.4	15.6	0.007	0.6
Standard Deviation	4.3	0.7	0.26	1147	3.56	0.534	2.00	63.3	6.6	0.089	12.69	15.6	11.4	0.57	0.42	3.1	10.7	0.5	90	0.1	1.6	3.9	0.084	0.7
Kurtosis	4.4	122.9	2.06	28	14.61	3.560	0.94	78.9	9.2	10.351	19.37	60.6	1.9	2.80	148.96	0.5	95.7	13.7	6	0.9	145.0	16.3	1.843	132.0
Skewness	1.7	9.0	1.51	5	3.29	1.932	1.17	7.4	2.1	2.430	3.77	6.3	1.5	1.41	10.35	0.7	7.8	2.6	2	1.1	10.0	2.6	1.375	9.5
Coefficient of Variation	71.4	112.8	78.03	166	96.79	114.555	71.39	112.5	50.6	66.002	103.56	106.6	81.2	66.95	152.06	54.7	108.0	80.7	67	74.8	122.4	73.2	77.336	121.8
robust Coefficient Of Variation	74.1	59.3	88.96	97	68.57	144.540	77.10	82.1	42.8	51.569	71.56	83.5	97.5	74.13	78.49	58.2	79.1	89.0	74	111.2	66.7	74.1	81.717	59.3
Minimum	0.4	<0.1	0.05	24	0.30	0.017	0.22	0.9	1.1	0.010	0.84	0.3	0.6	<0.04	0.04	0.3	0.1	<0.1	22	<0.1	<0.1	0.2	0.005	<0.1
1 percentile	0.7	<0.1	0.06	40	0.57	0.027	0.26	1.7	2.1	0.015	1.11	0.4	1.7	0.11	0.05	0.4	0.3	<0.1	29	<0.1	<0.1	0.4	0.009	<0.1
2 percentile	0.9	<0.1	0.07	50	0.63	0.031	0.41	2.2	3.6	0.027	2.09	0.6	2.3	0.14	0.06	0.7	0.5	<0.1	33	<0.1	<0.1	0.4	0.013	<0.1
5 percentile	1.3	<0.1	0.08	77	0.84	0.043	0.55	4.7	4.8	0.036	3.20	1.2	3.1	0.21	0.07	1.5	0.9	0.1	39	<0.1	0.1	0.9	0.021	<0.1
10 percentile	1.7	0.2	0.10	96	1.13	0.055	0.77	10.5	6.4	0.048	3.81	2.5	3.9	0.28	0.08	2.0	2.0	0.2	47	<0.1	0.3	1.3	0.025	0.1
20 percentile	2.5	0.2	0.12	161	1.53	0.081	1.07	20.4	8.4	0.074	4.88	5.0	5.3	0.37	0.11	3.0	3.8	0.3	64	<0.1	0.5	2.2	0.040	0.2
25 percentile	2.8	0.3	0.15	178	1.67	0.101	1.30	25.4	9.1	0.083	5.46	6.5	5.8	0.42	0.12	3.4	4.8	0.3	71	<0.1	0.6	2.6	0.047	0.3
30 percentile	3.3	0.3	0.16	202	1.82	0.128	1.50	31.4	9.7	0.088	5.96	7.7	6.5	0.46	0.13	3.8	5.5	0.3	79	<0.1	0.7	3.0	0.054	0.3
40 percentile	4.1	0.4	0.19	278	2.15	0.188	1.84	36.2	10.8	0.103	7.23	9.6	7.9	0.56	0.15	4.7	6.7	0.4	91	0.1	0.8	3.9	0.068	0.4
50 percentile	5.0	0.5	0.25	366	2.70	0.264	2.30	44.7	11.7	0.115	8.44	11.3	9.9	0.72	0.17	5.4	7.9	0.5	105	0.1	1.0	4.7	0.085	0.5
60 percentile	5.9	0.5	0.32	457	3.26	0.357	2.82	53.0	13.2	0.130	10.39	13.9	13.1	0.88	0.21	6.1	9.7	0.6	126	0.2	1.2	5.7	0.103	0.6
70 percentile	7.1	0.6	0.39	584	3.81	0.504	3.36	66.2	14.7	0.149	12.25	17.3	16.1	1.05	0.26	7.0	11.6	0.8	166	0.2	1.4	6.7	0.127	0.7
75 percentile	7.8	0.7	0.45	658	4.17	0.616	3.70	74.8	15.8	0.163	13.61	19.2	18.8	1.14	0.30	7.6	13.2	0.9	176	0.2	1.5	7.3	0.141	0.7
80 percentile	8.8	0.8	0.50	743	4.84	0.738	4.36	81.8	16.8	0.177	15.73	22.1	21.7	1.26	0.35	8.4	14.7	1.0	199	0.2	1.7	7.9	0.166	0.8
90 percentile	11.2	1.1	0.76	1596	7.35	1.153	5.86	105.5	20.3	0.242	24.35	28.7	30.8	1.60	0.54	10.2	18.1	1.4	260	0.3	2.3	10.3	0.239	1.1
95 percentile	14.3	1.4	0.89	2619	9.72	1.784	6.97	129.1	23.3	0.317	35.37	33.8	40.3	1.98	0.77	11.6	23.0	1.6	329	0.4	3.1	11.6	0.286	1.5
98 percentile	19.0	2.1	1.11	4027	15.90	2.200	8.32	157.1	30.5	0.403	57.24	41.8	48.6	2.44	1.27	13.5	28.8	2.0	374	0.4	3.8	15.5	0.336	2.1
99 percentile	20.4	2.3	1.20	7610	21.79	2.371	8.88	204.6	41.5	0.479	77.90	52.1	52.0	2.80	1.50	14.8	35.9	2.7	407	0.5	6.0	16.8	0.357	2.9
Maximum	30.0	10.2	1.48	>10000	26.31	2.787	10.20	819.1	58.3	0.769	107.50	180.8	56.9	3.73	6.70	18.4	154.0	5.1	739	0.6	24.7	39.8	0.506	11.6

Element	U	V	W	Y	Yb	Zn	Zr
Lower Detection Limit	0.1	1	0.1	0.1	0.1	0.2	0.2
Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Dissolution	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
Total Sites	362	362	362	362	362	362	362
Total Sites with 4-acid Data	362	362	362	362	362	362	362
Missing Values	0	0	0	0	0	0	0
Total Sites Below Det. Lim.	0	0	19	0	1	0	0
Unique Values	153	89	17	305	96	319	277
Mean	8.6	37	0.4	42.4	3.9	110.0	33.0
Median	4.2	34	0.3	33.0	3.1	99.6	22.9
Geometric Mean	4.3	29	0.3	30.3	2.8	96.8	22.6
Variance	246.2	539	0.2	2473.0	20.6	3101.0	953.6
Standard Deviation	15.7	23	0.5	49.7	4.5	55.7	30.9
Kurtosis	37.1	2	170.7	124.5	124.6	4.0	4.6
Skewness	5.5	1	11.3	9.1	9.1	1.5	2.0
Coefficient of Variation	182.0	63	125.2	117.3	116.7	50.6	93.6
Robust Coefficient Of Variation	115.2	73	49.4	68.3	67.6	40.6	99.4
Minimum	0.4	2	<0.1	0.9	<0.1	6.5	1.2
1 percentile	0.5	3	<0.1	1.5	0.1	15.3	2.1
2 percentile	0.5	5	<0.1	2.5	0.3	18.4	4.3
5 percentile	0.8	7	<0.1	5.7	0.5	42.6	5.7
10 percentile	1.1	10	0.1	10.7	1.0	55.7	7.2
20 percentile	1.6	15	0.2	17.5	1.6	70.3	10.0
25 percentile	1.9	18	0.2	20.5	1.8	75.2	12.0
30 percentile	2.4	21	0.2	24.0	2.2	78.9	13.4
40 percentile	3.2	28	0.3	28.4	2.6	88.0	18.2
50 percentile	4.2	34	0.3	33.0	3.1	99.6	22.9
60 percentile	5.5	39	0.3	39.7	3.6	112.0	29.0
70 percentile	7.2	48	0.4	46.1	4.2	125.2	37.0
75 percentile	8.4	51	0.4	50.9	4.6	129.8	42.6
80 percentile	10.6	55	0.5	55.4	5.1	143.2	48.4
90 percentile	18.7	66	0.6	73.7	7.1	180.0	74.4
95 percentile	26.5	79	0.8	106.1	9.5	210.6	102.9
98 percentile	56.4	91	1.2	147.2	14.1	266.8	132.4
99 percentile	112.6	116	1.6	188.3	16.3	319.6	144.8
Maximum	141.5	140	7.7	765.1	69.8	390.8	198.6