

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
Summary Statistics - Soil Geochemical Data

Variable	Ag	Al	As	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Cl	Co	Cr	Cs
Unit	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppm	ppb	ppb	ppb
Min. Detection Limit	0.4	0.2	8	40	10	0.4	2	2	2	1	0.8	8	4	8	1
Sample Preparation	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS
Number of Samples	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177
Values < Det. Lim.	103	0	0	0	0	36	176	164	1	12	0	0	13	2	112
Arithmetic Mean	0.5	33.8	56	234	565	1.3	1	1	54	4	19.2	60	27	54	2
Median	0.2	29.6	46	209	422	0.9	1	1	38	3	11.2	46	16	39	1
Variance	0.3	580.2	1224	15090	410788	2.5	0	0	3049	14	715.5	2608	1342	6367	35
Standard Deviation	0.5	24.1	35	123	641	1.6	0	0	55	4	26.7	51	37	80	6
Skewness	2.4	1.9	2	1	4	3.7	13	4	3	2	5.2	3	4	10	8
Kurtosis	6.5	5.8	5	1	27	19.2	177	17	13	5	37.4	11	25	113	86
Percentiles															
Minimum Value	<0.4	4.9	11	64	41	<0.4	<2	<2	<2	<1	2.3	10	<4	<8	<1
5th Percentile	<0.4	9.2	19	90	81	<0.4	<2	<2	7	<1	3.7	17	<4	15	<1
10th Percentile	<0.4	10.7	23	107	144	<0.4	<2	<2	9	1	4.7	21	5	18	<1
15th Percentile	<0.4	11.5	26	119	169	<0.4	<2	<2	13	1	5.6	24	5	20	<1
25th Percentile	<0.4	16.7	31	141	218	0.5	<2	<2	16	2	7.2	30	7	27	<1
35th Percentile	<0.4	20.0	36	169	280	0.6	<2	<2	24	2	8.4	35	10	31	<1
50th Percentile	<0.4	29.6	46	209	422	0.9	<2	<2	38	3	11.2	46	16	39	<1
65th Percentile	0.5	38.0	59	254	562	1.2	<2	<2	56	4	16.2	60	23	52	1
70th Percentile	0.5	41.6	62	268	615	1.4	<2	<2	64	5	17.9	66	26	59	1
75th Percentile	0.6	45.9	67	288	708	1.6	<2	<2	71	5	19.9	70	33	65	1
80th Percentile	0.7	47.2	79	322	757	1.7	<2	<2	85	6	23.6	79	37	71	2
90th Percentile	1.1	60.3	95	385	1003	2.7	<2	<2	120	8	39.0	111	63	88	3
95th Percentile	1.5	71.9	111	489	1450	4.0	<2	2	145	13	60.1	158	87	118	8
98th Percentile	2.2	98.4	165	580	2106	5.8	<2	3	183	17	92.1	209	120	135	14
99th Percentile	2.6	117.7	187	603	3324	7.2	<2	3	257	18	117.8	289	173	197	18
Maximum Value	2.9	154.6	214	671	5275	12.9	2	4	433	21	255.1	362	318	999	67

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Variable	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
Min. Detection Limit	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1	4	0.8	2	0.4
Sample Preparation	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS
Number of Samples	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177
Values < Det. Lim.	0	18	69	119	0	1	12	156	62	136	177	0	0	2	169
Arithmetic Mean	73	1.9	0.9	0.5	21.3	6	2.3	1	1.2	0.4	1	133	9.7	34	0.2
Median	61	1.0	0.5	0.2	17.8	5	1.2	1	1.1	0.2	1	90	6.0	25	0.2
Variance	2295	7.9	2.5	0.6	225.2	9	11.6	1	0.8	0.3	0	16347	124.2	784	0.0
Standard Deviation	48	2.8	1.6	0.8	15.0	3	3.4	1	0.9	0.6	0	128	11.1	28	0.2
Skewness	2	4.1	5.4	3.9	1.0	1	3.9	4	1.9	5.0	-	2	3.2	2	9.6
Kurtosis	11	20.7	39.1	18.1	0.5	0	18.3	15	6.1	32.2	-	5	13.6	7	105.8
Percentiles															
Minimum Value	14	<0.4	<0.4	<0.4	1.7	<1	<0.4	<2	<0.8	<0.4	<1	12	1.3	<2	<0.4
5th Percentile	22	<0.4	<0.4	<0.4	4.1	2	<0.4	<2	<0.8	<0.4	<1	20	1.9	9	<0.4
10th Percentile	27	<0.4	<0.4	<0.4	5.0	2	0.5	<2	<0.8	<0.4	<1	26	2.5	11	<0.4
15th Percentile	31	0.5	<0.4	<0.4	7.0	2	0.6	<2	<0.8	<0.4	<1	34	2.9	12	<0.4
25th Percentile	40	0.6	<0.4	<0.4	8.7	3	0.7	<2	<0.8	<0.4	<1	47	3.7	14	<0.4
35th Percentile	49	0.8	<0.4	<0.4	12.7	4	0.9	<2	<0.8	<0.4	<1	55	4.4	19	<0.4
50th Percentile	61	1.0	0.5	<0.4	17.8	5	1.2	<2	1.1	<0.4	<1	90	6.0	25	<0.4
65th Percentile	79	1.4	0.7	<0.4	24.5	6	1.7	<2	1.4	<0.4	<1	135	8.4	35	<0.4
70th Percentile	90	1.7	0.8	0.4	26.6	7	2.0	<2	1.5	<0.4	<1	168	9.6	38	<0.4
75th Percentile	95	2.1	0.9	0.6	30.2	7	2.3	<2	1.6	<0.4	<1	183	10.7	44	<0.4
80th Percentile	105	2.5	1.2	0.7	32.9	8	3.1	<2	1.8	0.5	<1	218	12.5	49	<0.4
90th Percentile	123	3.7	2.0	1.1	43.4	10	4.4	2	2.2	0.7	<1	281	21.8	68	<0.4
95th Percentile	146	6.5	3.4	1.8	49.5	11	9.1	3	3.2	1.3	<1	382	30.9	82	<0.4
98th Percentile	185	11.5	6.0	3.0	60.6	13	12.9	4	3.7	2.2	<1	547	41.9	117	0.7
99th Percentile	212	15.4	6.9	4.2	63.5	13	19.2	5	4.0	2.8	<1	587	57.0	134	0.8
Maximum Value	384	21.7	15.1	5.2	70.9	16	23.2	7	6.3	5.0	<1	723	79.5	188	2.7

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Variable	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re	S	Sb	Sc
Unit	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppm
Min. Detection Limit	0.4	8	4	4	1	0.4	16	4	0.8	0.4	4	0.4	4	1	0.08
Sample Preparation	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES
Number of Samples	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177
Values < Det. Lim.	0	0	70	0	72	0	18	15	0	8	0	176	0	27	176
Arithmetic Mean	20.1	11217	6	44	2	9.6	56	77	117.5	2.3	315	0.2	51	4	0.04
Median	16.9	5433	5	34	1	5.1	48	37	93.7	1.2	115	0.2	44	3	0.04
Variance	184.7	388325954	20	1163	5	188.5	1708	9225	8977.7	9.8	302579	0.0	917	9	0.00
Standard Deviation	13.6	19706	4	34	2	13.7	41	96	94.8	3.1	550	0.0	30	3	0.01
Skewness	1.6	6	2	2	3	4.5	2	2	1.8	4.4	4	13.3	1	1	13.30
Kurtosis	3.2	43	5	6	11	27.3	4	5	4.3	26.6	20	177.0	1	3	177.00
Percentiles															
Minimum Value	2.2	292	<4	11	<1	1.0	<16	<4	6.4	<0.4	7	<0.4	9	<1	<0.08
5th Percentile	5.1	587	<4	15	<1	1.8	<16	<4	16.1	0.4	19	<0.4	15	<1	<0.08
10th Percentile	6.6	838	<4	17	<1	2.1	<16	4	28.1	0.5	24	<0.4	19	<1	<0.08
15th Percentile	7.8	1128	<4	20	<1	2.5	20	7	36.0	0.6	31	<0.4	23	<1	<0.08
25th Percentile	11.2	2276	<4	23	<1	3.0	28	13	48.9	0.8	41	<0.4	29	2	<0.08
35th Percentile	13.2	3113	<4	28	<1	4.0	35	18	64.1	1.0	58	<0.4	33	2	<0.08
50th Percentile	16.9	5433	5	34	1	5.1	48	37	93.7	1.2	115	<0.4	44	3	<0.08
65th Percentile	21.7	10384	7	43	2	7.6	61	78	127.8	1.9	200	<0.4	58	5	<0.08
70th Percentile	23.3	11947	7	45	2	8.5	65	90	140.1	2.1	247	<0.4	62	5	<0.08
75th Percentile	25.7	14579	8	49	2	10.2	73	109	166.3	2.7	335	<0.4	67	6	<0.08
80th Percentile	29.2	16083	9	52	3	12.1	81	127	182.4	3.0	447	<0.4	73	6	<0.08
90th Percentile	37.2	24499	11	79	4	19.1	105	189	224.9	4.5	760	<0.4	95	8	<0.08
95th Percentile	46.0	30602	14	136	6	28.4	136	250	293.1	7.2	1173	<0.4	110	9	<0.08
98th Percentile	57.8	42130	18	166	8	51.9	164	388	399.1	12.2	2118	<0.4	133	11	<0.08
99th Percentile	68.4	113191	20	175	9	64.9	192	463	480.7	14.3	2694	<0.4	145	13	<0.08
Maximum Value	77.4	185555	30	186	16	120.1	247	509	530.1	27.5	4289	0.4	153	19	0.12

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Variable	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W
Unit	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit	80	2	0.4	1	40	0.8	0.4	2	2	40	0.4	0.4	0.4	8	2
Sample Preparation	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation	ICP-MS	ICP-ES	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
Number of Samples	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177
Values < Det. Lim.	176	0	13	58	4	177	134	177	7	0	50	167	12	1	105
Arithmetic Mean	40	21	2.3	2	315	0.4	0.4	1	14	379	2.3	0.2	2.1	125	2
Median	40	19	1.2	2	210	0.4	0.2	1	11	255	1.0	0.2	1.4	110	1
Variance	14	118	12.0	3	176614	0.0	0.2	0	119	155823	26.8	0.0	6.4	6460	3
Standard Deviation	4	11	3.5	2	420	0.0	0.5	0	11	395	5.2	0.2	2.5	80	2
Skewness	13	2	4.4	1	5	-	4.2	-	2	3	7.0	7.4	3.9	1	2
Kurtosis	177	10	25.4	1	38	-	20.8	-	4	13	60.0	66.5	18.4	1	5
Percentiles															
Minimum Value	<80	6	<0.4	<1	<40	<0.8	<0.4	<2	<2	46	<0.4	<0.4	<0.4	<8	<2
5th Percentile	<80	9	<0.4	<1	60	<0.8	<0.4	<2	3	75	<0.4	<0.4	<0.4	27	<2
10th Percentile	<80	11	0.4	<1	74	<0.8	<0.4	<2	4	89	<0.4	<0.4	0.5	39	<2
15th Percentile	<80	12	0.6	<1	83	<0.8	<0.4	<2	5	113	<0.4	<0.4	0.7	50	<2
25th Percentile	<80	14	0.7	<1	119	<0.8	<0.4	<2	7	146	<0.4	<0.4	0.9	65	<2
35th Percentile	<80	16	0.9	1	154	<0.8	<0.4	<2	8	189	0.5	<0.4	1.1	82	<2
50th Percentile	<80	19	1.2	2	210	<0.8	<0.4	<2	11	255	1.0	<0.4	1.4	110	<2
65th Percentile	<80	22	1.7	2	298	<0.8	<0.4	<2	15	335	1.6	<0.4	2.0	144	2
70th Percentile	<80	23	2.0	3	314	<0.8	<0.4	<2	17	364	2.1	<0.4	2.2	154	2
75th Percentile	<80	25	2.4	3	350	<0.8	<0.4	<2	18	441	2.4	<0.4	2.5	159	3
80th Percentile	<80	27	3.0	3	406	<0.8	0.4	<2	20	503	3.1	<0.4	2.8	181	3
90th Percentile	<80	33	4.5	4	592	<0.8	0.7	<2	28	879	4.7	<0.4	3.8	237	4
95th Percentile	<80	38	7.5	5	779	<0.8	1.3	<2	37	1278	6.6	0.4	5.1	288	5
98th Percentile	<80	47	13.5	7	1475	<0.8	2.1	<2	45	1449	13.6	0.9	10.7	329	7
99th Percentile	<80	57	16.7	7	2213	<0.8	2.8	<2	49	1644	20.6	1.0	15.6	363	7
Maximum Value	89	86	29.1	7	3980	<0.8	3.7	<2	68	3020	52.9	2.3	18.2	418	10

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Variable	Y	Yb	Zn	Zr	pH
Unit	ppb	ppb	ppb	ppb	
Min. Detection Limit	0.8	0.4	40	4	
Sample Preparation	not milled	not milled	not milled	not milled	not milled
Dissolution	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation	ICP-MS	ICP-MS	ICP-MS	ICP-MS	meter
Number of Samples	177	177	177	177	177
Values < Det. Lim.	0	80	3	0	
Arithmetic Mean	9.2	0.8	585	26	4.6
Median	4.7	0.4	414	20	4.5
Variance	225.7	2.2	262355	432	0.3
Standard Deviation	15.0	1.5	512	21	0.6
Skewness	6.0	6.1	2	3	1.1
Kurtosis	48.8	49.7	4	11	1.3
Percentiles					
Minimum Value	1.0	<0.4	<40	5	3.6
5th Percentile	1.5	<0.4	107	8	3.9
10th Percentile	2.1	<0.4	151	9	4.0
15th Percentile	2.5	<0.4	187	9	4.1
25th Percentile	2.9	<0.4	252	11	4.2
35th Percentile	3.7	<0.4	306	15	4.3
50th Percentile	4.7	0.4	414	20	4.5
65th Percentile	6.7	0.5	548	27	4.7
70th Percentile	7.8	0.6	630	29	4.8
75th Percentile	9.6	0.8	727	32	4.8
80th Percentile	11.3	0.9	893	36	5.0
90th Percentile	19.9	1.6	1330	49	5.5
95th Percentile	29.7	2.7	1550	68	5.8
98th Percentile	46.4	5.3	1990	80	6.2
99th Percentile	64.6	6.3	2309	94	6.5
Maximum Value	152.2	15.0	3038	161	6.7

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Variable		Ag	Al	As	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Cl	Co
Unit		ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Min. Detection Limit		0.4	0.2	8	40	10	0.4	2	2	2	1	0.8	8	4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS
1	NB071001	<0.4	17.5	36	196	114	<0.4	<2	<2	14	3	3.5	42	6
2	NB071002	0.4	39.2	63	171	609	1.9	<2	<2	102	3	17.0	16	35
3	NB071003	<0.4	10.5	18	68	163	<0.4	<2	<2	7	<1	4.6	10	<4
4	NB071004	0.7	50.6	25	143	331	3.9	<2	<2	31	2	25.4	25	58
5	NB071005	0.4	34.5	57	224	540	1.0	<2	<2	101	4	7.4	23	20
6	NB071007	0.6	9.6	169	156	549	1.0	<2	<2	52	3	17.3	40	6
7	NB071009	<0.4	23.5	55	121	252	<0.4	<2	<2	14	2	3.6	31	5
8	NB071010	0.6	29.6	60	269	413	0.6	<2	<2	67	8	4.3	27	14
9	NB071011	<0.4	10.3	36	166	262	0.5	<2	<2	52	5	8.1	70	7
10	NB071012	<0.4	53.6	83	201	645	1.1	<2	<2	41	5	7.6	50	9
11	NB071013	<0.4	11.2	27	109	204	<0.4	<2	<2	17	2	5.5	21	5
12	NB071014	<0.4	12.5	52	185	497	0.5	<2	<2	54	6	7.3	26	6
13	NB071015	<0.4	47.0	62	134	302	0.9	<2	<2	37	4	6.2	30	9
14	NB071016	1.2	17.8	45	141	185	0.5	<2	<2	18	2	5.0	20	8
15	NB071017	<0.4	66.5	60	185	552	2.1	<2	<2	173	4	15.7	38	68
16	NB071018	1.1	50.6	40	200	5275	12.9	<2	<2	121	9	255.1	99	166
17	NB071019	<0.4	38.3	85	175	387	1.5	<2	<2	37	2	8.7	23	22
18	NB071020	<0.4	41.2	38	191	662	1.7	<2	<2	87	7	12.6	30	39
19	NB071021	<0.4	77.4	66	195	565	5.5	<2	<2	33	9	17.2	47	57
20	NB071022	0.5	18.8	99	267	324	0.7	<2	<2	68	6	12.3	82	8
21	NB071023	<0.4	146.4	110	273	1110	2.1	<2	2	80	9	26.6	36	28
22	NB071024	0.6	58.6	106	183	439	1.2	<2	<2	48	8	11.2	28	23
23	NB071025	1.0	28.5	80	140	175	0.5	<2	<2	3	2	6.1	34	5
24	NB071027	1.4	16.7	18	208	140	0.8	<2	<2	159	<1	23.1	15	11
25	NB071028	0.5	34.4	34	206	537	1.0	<2	<2	120	2	5.8	34	43
26	NB071029	1.0	33.5	38	240	189	0.9	<2	<2	177	3	9.0	19	23
27	NB071030	0.5	59.9	60	250	665	6.2	<2	<2	123	9	103.7	83	126
28	NB071031	0.5	23.9	161	266	512	<0.4	<2	<2	75	3	5.9	42	6
29	NB071032	0.9	55.9	60	241	1579	1.7	<2	<2	85	5	16.2	67	29
30	NB071033	<0.4	62.4	59	130	1008	5.5	<2	<2	40	5	25.2	62	68
31	NB071034	<0.4	11.4	28	88	604	0.6	<2	<2	10	1	4.3	23	8
32	NB071035	<0.4	33.1	110	117	811	1.0	<2	<2	31	4	7.3	33	13
33	NB071036	<0.4	90.6	90	205	758	5.0	<2	<2	81	5	22.4	60	58
34	NB071037	<0.4	8.4	79	212	773	0.5	<2	<2	138	4	20.0	65	5

PH Layer  
<2mm fraction  
Water Leach

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Variable		Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		8	1	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
1	NB071001	21	1	33	<0.4	<0.4	<0.4	6.1	3	<0.4	<2	<0.8	<0.4	<1
2	NB071002	40	<1	59	1.8	0.9	0.4	17.8	5	1.9	<2	1.6	<0.4	<1
3	NB071003	21	<1	18	0.5	<0.4	<0.4	12.1	4	0.5	<2	<0.8	<0.4	<1
4	NB071004	24	<1	38	3.7	2.1	0.9	8.4	5	3.9	4	<0.8	0.7	<1
5	NB071005	45	<1	50	1.0	0.5	<0.4	24.5	8	1.0	<2	<0.8	<0.4	<1
6	NB071007	21	14	60	1.9	0.7	0.7	5.0	2	3.1	<2	<0.8	<0.4	<1
7	NB071009	49	<1	27	<0.4	<0.4	<0.4	24.2	7	<0.4	<2	<0.8	<0.4	<1
8	NB071010	73	<1	64	<0.4	<0.4	<0.4	43.2	6	0.5	<2	<0.8	<0.4	<1
9	NB071011	26	15	48	0.8	<0.4	<0.4	3.1	4	0.9	<2	<0.8	<0.4	<1
10	NB071012	130	1	48	0.8	0.5	<0.4	43.9	12	0.9	<2	2.0	<0.4	<1
11	NB071013	18	<1	27	0.5	<0.4	<0.4	7.5	3	0.5	<2	2.1	<0.4	<1
12	NB071014	26	<1	102	0.6	<0.4	<0.4	8.3	2	0.9	<2	<0.8	<0.4	<1
13	NB071015	108	<1	57	0.6	<0.4	<0.4	40.9	13	0.6	<2	1.6	<0.4	<1
14	NB071016	34	<1	51	<0.4	<0.4	<0.4	18.9	8	0.5	<2	<0.8	<0.4	<1
15	NB071017	64	<1	86	2.3	1.1	0.6	34.1	5	2.3	<2	2.2	0.5	<1
16	NB071018	66	1	118	16.9	7.8	5.1	32.4	7	23.2	5	3.5	3.0	<1
17	NB071019	59	<1	32	0.9	0.5	<0.4	31.5	7	0.9	3	1.8	<0.4	<1
18	NB071020	33	<1	37	0.8	0.5	<0.4	21.8	7	1.1	2	1.0	<0.4	<1
19	NB071021	103	<1	78	2.3	1.4	<0.4	63.2	6	2.1	<2	3.3	0.5	<1
20	NB071022	29	2	145	1.1	0.4	<0.4	7.8	9	1.3	3	<0.8	<0.4	<1
21	NB071023	132	<1	80	2.8	1.3	0.6	59.8	10	2.8	2	3.3	0.6	<1
22	NB071024	92	<1	68	1.0	0.5	<0.4	53.3	6	1.0	<2	1.4	<0.4	<1
23	NB071025	37	1	49	0.7	<0.4	<0.4	32.5	13	0.6	<2	<0.8	<0.4	<1
24	NB071027	26	<1	45	3.9	2.0	1.2	12.3	1	4.5	<2	1.1	0.7	<1
25	NB071028	56	<1	76	0.9	0.6	<0.4	25.2	5	0.9	<2	1.2	<0.4	<1
26	NB071029	78	<1	73	0.8	<0.4	<0.4	30.1	4	0.8	<2	1.4	<0.4	<1
27	NB071030	71	1	111	14.9	6.7	3.9	22.3	7	18.0	<2	4.3	2.7	<1
28	NB071031	53	2	59	0.6	<0.4	<0.4	14.7	8	0.6	<2	0.9	<0.4	<1
29	NB071032	66	2	92	1.3	0.6	<0.4	33.0	11	1.5	<2	1.4	<0.4	<1
30	NB071033	30	<1	45	2.8	1.4	0.7	21.6	8	3.2	<2	1.8	0.6	<1
31	NB071034	17	<1	18	0.5	<0.4	<0.4	8.7	3	0.6	<2	<0.8	<0.4	<1
32	NB071035	49	<1	43	0.7	<0.4	<0.4	35.3	8	0.8	<2	1.2	<0.4	<1
33	NB071036	83	2	76	2.5	1.3	0.6	50.2	12	2.6	<2	3.7	0.5	<1
34	NB071037	17	6	25	1.5	0.5	0.4	3.8	3	2.2	<2	<0.8	<0.4	<1

PH Layer  
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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
1	NB071001	97	1.9	42	<0.4	23.8	947	<4	43	1	1.2	17	64	10.8
2	NB071002	23	7.6	41	<0.4	29.2	9294	7	20	2	8.5	57	43	56.1
3	NB071003	19	2.1	12	<0.4	2.6	1143	<4	13	2	2.3	<16	30	32.1
4	NB071004	58	15.7	18	<0.4	12.2	5967	7	27	3	18.7	51	17	79.7
5	NB071005	65	4.7	27	<0.4	26.0	3288	<4	22	4	4.7	56	39	95.3
6	NB071007	145	15.5	11	<0.4	24.8	1398	5	41	<1	10.8	44	198	110.0
7	NB071009	55	1.8	23	<0.4	5.4	1538	<4	15	2	1.9	30	37	89.7
8	NB071010	73	2.6	25	<0.4	20.9	11897	7	21	2	2.1	73	64	62.7
9	NB071011	224	4.6	14	<0.4	8.1	763	5	61	<1	3.2	21	127	246.5
10	NB071012	109	3.7	67	<0.4	15.4	1708	<4	32	9	3.8	49	18	127.4
11	NB071013	116	3.7	13	<0.4	10.5	16478	9	17	<1	2.0	24	107	85.1
12	NB071014	116	4.6	20	<0.4	12.6	23252	7	24	<1	3.4	38	117	128.4
13	NB071015	51	3.2	44	<0.4	14.2	1882	5	25	8	2.9	39	35	78.5
14	NB071016	60	3.0	11	<0.4	7.2	7749	12	16	5	1.9	32	49	61.4
15	NB071017	25	6.0	33	<0.4	16.3	17193	<4	21	1	8.2	91	6	60.0
16	NB071018	139	68.2	19	1.0	56.6	185555	13	61	2	120.1	243	31	113.3
17	NB071019	67	4.0	54	<0.4	14.2	6092	6	23	3	4.7	61	35	124.1
18	NB071020	47	6.3	15	<0.4	16.9	27981	<4	24	1	6.2	67	21	89.2
19	NB071021	71	7.8	115	<0.4	26.6	4528	17	36	7	9.0	247	8	225.2
20	NB071022	63	7.3	16	<0.4	29.7	2450	5	47	3	4.8	46	78	116.4
21	NB071023	94	9.5	79	<0.4	45.8	19315	6	42	7	11.6	135	15	271.1
22	NB071024	44	4.6	60	<0.4	31.6	8508	6	18	4	4.4	113	20	129.2
23	NB071025	55	2.6	19	<0.4	4.1	548	5	52	9	3.0	32	37	84.2
24	NB071027	30	11.9	3	<0.4	9.3	2276	<4	14	<1	17.2	47	<4	15.2
25	NB071028	16	2.9	39	<0.4	18.6	17136	<4	20	<1	3.7	101	18	31.3
26	NB071029	34	3.2	17	<0.4	22.1	6538	<4	19	<1	2.7	121	12	20.4
27	NB071030	239	53.5	34	0.7	40.8	25728	7	45	2	56.0	156	78	139.0
28	NB071031	128	4.0	35	<0.4	16.5	5689	<4	34	2	2.4	34	147	94.3
29	NB071032	381	11.6	51	<0.4	30.9	10477	11	44	11	8.4	65	137	222.4
30	NB071033	118	9.5	21	<0.4	12.6	292	8	43	2	14.5	52	26	59.8
31	NB071034	54	2.3	17	<0.4	3.6	810	7	12	<1	2.4	29	45	66.2
32	NB071035	101	3.4	80	<0.4	13.7	2822	12	21	2	3.7	46	51	113.2
33	NB071036	171	9.7	94	<0.4	31.0	1315	8	45	8	12.7	106	49	177.5
34	NB071037	138	12.1	12	<0.4	32.0	312	<4	56	<1	7.9	18	186	93.7



PH Layer  
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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
1	NB071001	<0.4	279	<0.4	42	2	<0.08	<80	7	<0.4	2	150	<0.8	<0.4
2	NB071002	2.1	31	<0.4	31	6	<0.08	<80	24	2.1	<1	469	<0.8	<0.4
3	NB071003	0.5	40	<0.4	14	<1	<0.08	<80	11	0.5	<1	<40	<0.8	<0.4
4	NB071004	4.4	95	<0.4	42	4	<0.08	<80	19	4.0	1	216	<0.8	0.6
5	NB071005	1.2	88	<0.4	37	7	<0.08	<80	17	1.1	2	548	<0.8	<0.4
6	NB071007	2.8	330	<0.4	62	6	<0.08	<80	12	3.1	2	360	<0.8	0.4
7	NB071009	0.5	76	<0.4	28	6	<0.08	<80	17	<0.4	1	120	<0.8	<0.4
8	NB071010	0.6	40	<0.4	55	5	<0.08	<80	21	<0.4	2	314	<0.8	<0.4
9	NB071011	0.8	1810	<0.4	77	10	<0.08	<80	9	0.9	3	262	<0.8	<0.4
10	NB071012	1.0	309	<0.4	44	6	<0.08	<80	26	0.8	3	333	<0.8	<0.4
11	NB071013	0.5	523	<0.4	38	4	<0.08	<80	12	0.4	2	88	<0.8	<0.4
12	NB071014	0.8	243	<0.4	50	5	<0.08	<80	13	0.9	2	268	<0.8	<0.4
13	NB071015	0.8	145	<0.4	30	5	<0.08	<80	19	0.6	3	194	<0.8	<0.4
14	NB071016	0.5	160	<0.4	29	4	<0.08	<80	29	0.4	2	89	<0.8	<0.4
15	NB071017	1.9	15	<0.4	43	4	<0.08	<80	19	2.4	<1	639	<0.8	<0.4
16	NB071018	27.5	57	<0.4	77	6	<0.08	<80	51	29.1	2	3980	<0.8	3.3
17	NB071019	1.2	53	<0.4	25	6	<0.08	<80	15	0.9	1	199	<0.8	<0.4
18	NB071020	1.5	24	<0.4	33	5	<0.08	<80	17	1.3	2	304	<0.8	<0.4
19	NB071021	2.2	58	<0.4	48	6	<0.08	<80	15	2.0	1	271	<0.8	<0.4
20	NB071022	1.2	203	<0.4	58	10	<0.08	<80	11	1.2	2	439	<0.8	<0.4
21	NB071023	2.7	192	<0.4	60	12	<0.08	<80	33	2.6	4	611	<0.8	0.5
22	NB071024	1.1	25	<0.4	40	7	<0.08	<80	17	1.0	1	179	<0.8	<0.4
23	NB071025	0.7	244	<0.4	62	5	<0.08	<80	15	0.7	2	81	<0.8	<0.4
24	NB071027	3.9	53	<0.4	15	1	<0.08	<80	19	4.2	<1	1100	<0.8	0.7
25	NB071028	0.8	22	<0.4	29	2	<0.08	<80	23	1.0	6	717	<0.8	<0.4
26	NB071029	0.7	17	<0.4	30	2	<0.08	<80	20	0.7	<1	828	<0.8	<0.4
27	NB071030	12.9	108	0.4	104	8	<0.08	<80	33	15.9	2	740	<0.8	2.7
28	NB071031	0.6	258	<0.4	63	4	<0.08	<80	34	0.6	2	237	<0.8	<0.4
29	NB071032	2.1	1045	<0.4	82	8	<0.08	<80	35	1.6	7	513	<0.8	<0.4
30	NB071033	3.3	217	<0.4	62	5	<0.08	<80	16	3.6	3	338	<0.8	0.5
31	NB071034	0.5	129	<0.4	23	6	<0.08	<80	9	0.6	2	75	<0.8	<0.4
32	NB071035	0.9	195	<0.4	40	6	<0.08	<80	18	0.8	3	216	<0.8	<0.4
33	NB071036	2.9	115	<0.4	62	9	<0.08	<80	38	2.9	6	334	<0.8	0.4
34	NB071037	2.2	395	<0.4	69	3	<0.08	<80	7	2.1	1	350	<0.8	<0.4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
1	NB071001	<2	11	114	0.8	<0.4	<0.4	47	<2	1.6	<0.4	307	8	3.7
2	NB071002	<2	32	501	<0.4	<0.4	3.1	115	<2	8.3	0.8	539	20	4.7
3	NB071003	<2	7	226	<0.4	<0.4	1.2	72	<2	2.0	<0.4	52	13	4.4
4	NB071004	<2	17	669	0.8	<0.4	4.0	84	<2	20.9	2.0	357	10	4.8
5	NB071005	<2	18	756	0.8	<0.4	1.4	132	<2	5.1	0.5	691	17	4.5
6	NB071007	<2	17	89	1.9	<0.4	0.8	83	4	9.6	0.4	393	11	4.4
7	NB071009	<2	6	168	0.5	<0.4	1.1	156	<2	1.6	<0.4	269	15	4.1
8	NB071010	<2	14	381	0.5	<0.4	1.7	184	<2	2.2	<0.4	789	22	4.4
9	NB071011	<2	7	118	2.2	<0.4	<0.4	124	7	3.5	<0.4	735	8	3.8
10	NB071012	<2	23	908	1.4	<0.4	1.5	183	2	3.8	0.5	688	43	3.9
11	NB071013	<2	14	177	2.1	<0.4	0.6	67	5	2.3	<0.4	339	10	4.5
12	NB071014	<2	10	124	3.2	<0.4	0.5	98	<2	2.9	<0.4	822	13	4.8
13	NB071015	<2	15	1298	0.6	<0.4	1.7	349	2	3.0	0.4	260	28	3.9
14	NB071016	<2	9	1393	1.5	<0.4	1.5	215	3	2.1	<0.4	122	19	4.9
15	NB071017	<2	15	444	<0.4	<0.4	2.6	84	<2	9.8	1.2	534	50	4.8
16	NB071018	<2	34	469	0.5	1.1	10.0	150	<2	62.0	6.7	465	78	5.8
17	NB071019	<2	19	270	0.9	<0.4	1.6	223	<2	3.6	<0.4	394	36	4.3
18	NB071020	<2	10	289	<0.4	<0.4	1.1	170	<2	4.2	0.4	841	19	4.6
19	NB071021	<2	48	356	0.6	<0.4	15.6	258	<2	11.2	1.4	919	67	4.1
20	NB071022	<2	18	544	4.1	<0.4	0.6	179	2	6.0	<0.4	1116	10	3.9
21	NB071023	<2	39	911	2.0	<0.4	3.5	322	3	11.2	1.1	1056	82	4.4
22	NB071024	<2	16	799	<0.4	<0.4	2.0	249	<2	4.1	0.5	916	38	4.3
23	NB071025	<2	12	912	1.5	<0.4	1.0	145	2	3.1	0.4	332	16	3.9
24	NB071027	<2	<2	136	<0.4	<0.4	1.9	17	<2	19.9	1.9	<40	30	6.3
25	NB071028	<2	7	380	<0.4	<0.4	1.6	64	<2	4.9	0.6	420	29	5.2
26	NB071029	<2	5	441	<0.4	<0.4	1.5	68	<2	3.6	<0.4	467	31	5.5
27	NB071030	<2	68	547	1.0	0.9	6.4	128	3	72.7	5.3	727	74	4.6
28	NB071031	<2	11	494	1.8	<0.4	0.8	94	3	3.2	<0.4	232	24	4.2
29	NB071032	<2	20	1029	2.4	<0.4	1.4	154	6	6.3	0.5	541	42	4.2
30	NB071033	<2	31	327	3.2	<0.4	3.9	124	4	11.5	1.2	252	36	4.0
31	NB071034	<2	5	74	1.3	<0.4	0.6	74	<2	2.2	<0.4	154	8	4.2
32	NB071035	<2	11	228	1.2	<0.4	1.3	171	2	3.4	<0.4	425	25	4.2
33	NB071036	<2	47	934	0.8	<0.4	3.1	165	5	11.4	1.3	900	62	4.1
34	NB071037	<2	20	51	1.8	<0.4	<0.4	52	2	7.5	<0.4	341	9	4.1

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 0.4 not milled Water Leach ICP-MS	Al ppm 0.2 not milled Water Leach ICP-MS	As ppb 8 not milled Water Leach ICP-MS	B ppb 40 not milled Water Leach ICP-MS	Ba ppb 10 not milled Water Leach ICP-MS	Be ppb 0.4 not milled Water Leach ICP-MS	Bi ppb 2 not milled Water Leach ICP-MS	Br ppm 2 not milled Water Leach ICP-ES	Ca ppm 2 not milled Water Leach ICP-ES	Cd ppb 1 not milled Water Leach ICP-MS	Ce ppb 0.8 not milled Water Leach ICP-MS	Cl ppm 8 not milled Water Leach ICP-ES	Co ppb 4 not milled Water Leach ICP-MS
35	NB071038	<0.4	40.5	34	80	750	2.3	<2	<2	52	4	18.5	22	64
36	NB071039	<0.4	15.9	29	111	113	<0.4	<2	<2	6	2	4.1	19	4
37	NB071040	0.9	16.9	24	138	120	0.4	<2	<2	14	1	6.0	29	<4
38	NB071041	<0.4	11.6	46	574	180	<0.4	<2	<2	42	4	23.5	158	5
39	NB071042	<0.4	12.2	53	209	158	<0.4	<2	<2	42	4	10.1	94	5
40	NB071043	<0.4	47.0	25	93	375	0.9	<2	<2	35	2	8.7	27	35
41	NB071044	1.9	42.2	33	269	969	2.0	<2	<2	48	4	23.7	34	23
42	NB071045	0.4	11.2	21	80	218	0.5	<2	<2	8	3	6.2	43	<4
43	NB071046	<0.4	34.4	42	131	511	1.3	<2	<2	41	2	25.4	15	25
44	NB071047	<0.4	43.9	49	84	641	1.5	<2	<2	3	5	17.5	43	15
45	NB071048	<0.4	25.7	117	159	422	1.5	<2	<2	31	2	10.9	46	18
46	NB071049	0.6	26.4	24	152	1370	2.5	<2	<2	8	5	13.5	56	18
47	NB071050	1.5	31.6	30	192	856	0.5	<2	<2	89	3	8.1	20	14
48	NB071051	0.5	70.5	48	241	564	3.7	<2	<2	126	6	46.3	69	67
49	NB071052	0.4	56.2	44	280	543	2.6	<2	<2	131	4	16.9	33	35
50	NB071054	0.5	32.6	51	202	251	1.6	<2	<2	93	2	12.5	22	34
51	NB071055	<0.4	53.3	43	387	246	0.7	<2	3	65	8	9.1	205	33
52	NB071056	<0.4	108.7	58	465	208	1.1	<2	<2	36	6	15.2	180	35
53	NB072001	0.6	10.8	68	114	852	<0.4	<2	<2	31	1	8.4	47	5
54	NB072002	1.0	15.6	76	127	1000	0.8	<2	<2	55	8	19.8	46	12
55	NB072003	0.4	47.2	39	177	466	1.4	<2	<2	119	9	9.6	40	60
56	NB072004	<0.4	18.5	42	129	488	0.6	<2	<2	54	7	6.4	43	7
57	NB072005	<0.4	33.0	146	384	699	0.7	<2	<2	85	15	8.4	178	19
58	NB072006	0.5	90.2	181	335	744	2.5	<2	<2	130	18	16.3	68	50
59	NB072007	1.0	17.1	62	585	1322	1.7	<2	<2	433	6	25.2	49	33
60	NB072009	0.7	18.9	142	306	655	0.5	2	<2	63	20	51.8	98	11
61	NB072010	0.9	56.9	97	360	828	1.0	<2	<2	189	16	11.2	58	46
62	NB072011	<0.4	21.8	43	180	753	0.6	<2	<2	57	7	13.3	69	11
63	NB072012	0.5	20.8	59	229	313	0.7	<2	<2	45	3	24.8	60	5
64	NB072013	<0.4	41.8	30	140	561	1.4	<2	<2	6	6	11.4	46	8
65	NB072014	<0.4	41.1	58	325	459	1.1	<2	<2	55	4	6.0	46	14
66	NB072015	<0.4	89.9	33	339	583	1.2	<2	<2	147	3	21.4	40	85
67	NB072016	0.7	31.3	55	362	1613	0.6	<2	<2	255	18	4.6	75	53
68	NB072017	0.5	14.3	65	282	731	<0.4	<2	<2	73	7	25.5	93	8

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Cr ppb 8 not milled Water Leach ICP-MS	Cs ppb 1 not milled Water Leach ICP-MS	Cu ppb 8 not milled Water Leach ICP-MS	Dy ppb 0.4 not milled Water Leach ICP-MS	Er ppb 0.4 not milled Water Leach ICP-MS	Eu ppb 0.4 not milled Water Leach ICP-MS	Fe ppm 0.4 not milled Water Leach ICP-ES	Ga ppb 1 not milled Water Leach ICP-MS	Gd ppb 0.4 not milled Water Leach ICP-MS	Ge ppb 2 not milled Water Leach ICP-MS	Hf ppb 0.8 not milled Water Leach ICP-MS	Ho ppb 0.4 not milled Water Leach ICP-MS	In ppb 1 not milled Water Leach ICP-MS
35	NB071038	40	<1	47	1.3	0.6	<0.4	21.8	4	1.7	<2	1.8	<0.4	<1
36	NB071039	19	<1	34	<0.4	<0.4	<0.4	12.8	3	<0.4	<2	<0.8	<0.4	<1
37	NB071040	30	1	39	0.5	<0.4	<0.4	7.4	8	0.5	<2	<0.8	<0.4	<1
38	NB071041	26	10	62	1.4	0.6	<0.4	4.1	3	2.0	<2	<0.8	<0.4	<1
39	NB071042	22	7	65	0.9	<0.4	<0.4	4.3	3	0.9	<2	<0.8	<0.4	<1
40	NB071043	33	<1	33	1.0	0.5	<0.4	15.0	3	1.0	<2	1.1	<0.4	<1
41	NB071044	19	<1	55	3.5	2.0	0.8	7.5	4	3.4	7	2.1	0.8	<1
42	NB071045	16	27	49	0.6	<0.4	<0.4	4.0	3	0.6	2	0.9	<0.4	<1
43	NB071046	27	<1	89	2.5	1.1	0.9	18.3	4	3.3	<2	1.2	0.5	<1
44	NB071047	60	<1	57	1.1	0.6	<0.4	48.5	6	1.2	<2	1.7	<0.4	<1
45	NB071048	29	<1	72	0.7	<0.4	<0.4	17.2	5	1.0	<2	0.9	<0.4	<1
46	NB071049	9	<1	27	1.5	0.8	0.5	3.4	2	1.9	4	<0.8	<0.4	<1
47	NB071050	43	<1	51	1.0	0.4	<0.4	19.2	5	1.2	<2	0.9	<0.4	<1
48	NB071051	49	3	118	6.2	2.8	1.8	25.3	7	7.7	<2	1.3	1.1	<1
49	NB071052	55	<1	110	3.0	1.4	0.7	35.6	5	3.3	<2	1.1	0.6	<1
50	NB071054	33	<1	50	2.0	1.1	<0.4	18.1	2	2.0	<2	0.9	<0.4	<1
51	NB071055	999	<1	91	1.3	0.8	<0.4	32.7	11	1.4	<2	1.8	<0.4	<1
52	NB071056	311	2	157	2.2	1.2	0.5	49.3	16	2.2	<2	3.9	0.4	<1
53	NB072001	15	<1	30	<0.4	<0.4	<0.4	7.8	3	0.5	<2	1.0	<0.4	<1
54	NB072002	22	<1	97	1.6	0.6	<0.4	9.8	5	2.1	<2	2.1	<0.4	<1
55	NB072003	66	<1	73	1.0	0.5	<0.4	40.5	7	1.0	<2	1.3	<0.4	<1
56	NB072004	33	<1	67	0.5	<0.4	<0.4	14.7	8	0.5	<2	1.2	<0.4	<1
57	NB072005	60	2	94	0.9	0.5	<0.4	27.5	14	0.9	<2	1.5	<0.4	<1
58	NB072006	86	<1	146	1.5	0.9	<0.4	39.1	9	1.7	<2	1.8	<0.4	<1
59	NB072007	49	<1	85	3.3	1.6	1.0	10.6	2	3.8	<2	0.9	0.6	<1
60	NB072009	34	9	116	3.6	1.3	1.2	7.6	5	5.3	<2	1.2	0.6	<1
61	NB072010	69	<1	111	0.9	0.6	<0.4	37.3	12	1.1	<2	1.8	<0.4	<1
62	NB072011	35	4	74	0.9	<0.4	<0.4	8.4	6	1.2	<2	1.0	<0.4	<1
63	NB072012	30	1	52	2.1	0.7	0.6	10.3	11	3.4	<2	1.0	<0.4	<1
64	NB072013	21	2	36	1.1	0.7	<0.4	10.6	11	1.0	2	0.9	<0.4	<1
65	NB072014	105	<1	75	1.2	0.6	<0.4	24.6	11	1.2	<2	3.2	<0.4	<1
66	NB072015	127	<1	92	2.5	1.6	1.0	55.2	13	2.7	<2	6.3	0.5	<1
67	NB072016	117	1	72	0.8	0.5	<0.4	26.8	11	0.6	<2	1.4	<0.4	<1
68	NB072017	32	3	103	1.7	0.7	0.5	8.3	4	2.3	<2	<0.8	<0.4	<1

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
35	NB071038	34	7.5	49	<0.4	11.1	23121	<4	13	1	8.9	61	7	53.1
36	NB071039	26	1.9	13	<0.4	7.7	1008	<4	18	<1	1.9	23	18	16.3
37	NB071040	76	4.3	10	<0.4	3.8	3416	7	20	5	2.1	17	57	45.6
38	NB071041	243	31.5	17	<0.4	27.8	2794	7	163	<1	9.7	73	147	200.7
39	NB071042	110	6.3	14	<0.4	16.3	2139	<4	59	1	3.6	31	68	191.9
40	NB071043	47	4.1	27	<0.4	8.7	5731	<4	17	1	4.7	30	4	27.6
41	NB071044	46	13.3	9	<0.4	21.8	2650	5	38	2	15.8	46	17	64.4
42	NB071045	187	4.4	21	<0.4	3.6	2630	10	36	3	2.5	<16	127	224.7
43	NB071046	37	8.3	28	<0.4	14.2	16103	<4	17	<1	13.9	46	13	52.1
44	NB071047	38	8.2	40	<0.4	6.4	666	<4	25	4	7.9	29	8	101.4
45	NB071048	88	5.6	38	<0.4	13.0	1496	8	28	2	4.8	32	26	122.9
46	NB071049	65	6.3	6	<0.4	8.2	868	6	23	<1	8.4	41	51	70.6
47	NB071050	55	4.5	20	<0.4	18.8	12555	<4	12	<1	4.6	80	22	19.0
48	NB071051	142	22.0	41	<0.4	30.3	9374	5	42	2	26.6	154	31	121.6
49	NB071052	55	7.4	46	<0.4	25.5	13085	5	22	2	10.1	115	31	63.0
50	NB071054	38	5.6	35	<0.4	30.4	5878	<4	16	<1	6.4	81	14	41.5
51	NB071055	56	4.7	19	<0.4	73.9	899	<4	180	<1	5.3	95	13	24.5
52	NB071056	215	6.3	35	<0.4	59.1	1899	6	165	5	7.3	103	30	241.2
53	NB072001	190	7.8	9	<0.4	13.8	3037	8	23	<1	3.4	<16	94	105.5
54	NB072002	109	28.2	11	<0.4	26.0	19631	9	33	4	10.2	25	96	168.5
55	NB072003	25	3.6	36	<0.4	32.8	10598	<4	31	3	4.1	63	23	55.0
56	NB072004	128	4.4	11	<0.4	16.4	43743	8	27	4	2.1	25	90	98.3
57	NB072005	368	4.6	25	<0.4	26.7	40477	7	69	4	3.8	52	185	467.6
58	NB072006	96	6.4	59	<0.4	37.2	14787	<4	35	4	7.0	88	13	161.8
59	NB072007	109	8.3	24	<0.4	37.2	15583	6	34	<1	13.8	87	68	50.4
60	NB072009	565	35.0	14	<0.4	27.3	3347	10	92	<1	25.4	75	509	530.1
61	NB072010	106	6.5	31	<0.4	43.6	25705	5	37	4	5.1	85	28	231.7
62	NB072011	265	12.6	21	<0.4	17.8	3819	7	38	2	5.6	34	196	353.6
63	NB072012	234	14.8	21	<0.4	17.0	12145	6	32	16	11.9	24	78	195.8
64	NB072013	226	4.8	12	<0.4	7.7	475	5	41	2	4.7	20	76	79.3
65	NB072014	179	4.3	42	<0.4	23.5	5433	6	29	2	4.6	60	100	162.6
66	NB072015	121	9.6	25	<0.4	55.5	8991	<4	28	3	13.5	122	15	29.1
67	NB072016	187	3.5	32	<0.4	66.6	110468	8	39	<1	2.6	176	129	111.1
68	NB072017	390	17.9	12	<0.4	19.0	35241	8	54	<1	10.8	77	384	274.3

PH Layer  
<2mm fraction  
Water Leach

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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
35	NB071038	2.2	68	<0.4	21	2	<0.08	<80	16	1.9	<1	194	<0.8	<0.4
36	NB071039	0.5	48	<0.4	19	<1	<0.08	<80	9	<0.4	<1	<40	<0.8	<0.4
37	NB071040	0.6	362	<0.4	27	1	<0.08	<80	28	0.5	5	79	<0.8	<0.4
38	NB071041	3.5	1160	<0.4	94	8	<0.08	<80	11	2.0	2	174	<0.8	<0.4
39	NB071042	0.9	576	<0.4	65	7	<0.08	<80	11	0.9	3	177	<0.8	<0.4
40	NB071043	1.1	64	<0.4	19	<1	<0.08	<80	19	1.1	<1	117	<0.8	<0.4
41	NB071044	3.7	40	<0.4	46	3	<0.08	89	18	3.4	1	218	<0.8	0.6
42	NB071045	0.7	2678	<0.4	63	9	<0.08	<80	14	0.4	5	94	<0.8	<0.4
43	NB071046	3.2	34	<0.4	21	<1	<0.08	<80	17	3.3	<1	177	<0.8	0.5
44	NB071047	1.9	140	<0.4	21	2	<0.08	<80	15	1.6	2	58	<0.8	<0.4
45	NB071048	1.3	115	<0.4	37	6	<0.08	<80	16	0.9	3	146	<0.8	<0.4
46	NB071049	1.9	61	<0.4	33	1	<0.08	<80	14	1.9	1	84	<0.8	<0.4
47	NB071050	1.1	17	<0.4	24	<1	<0.08	<80	24	1.2	<1	208	<0.8	<0.4
48	NB071051	6.1	37	<0.4	69	5	<0.08	<80	31	7.2	2	432	<0.8	1.1
49	NB071052	2.1	19	<0.4	34	2	<0.08	<80	17	2.6	1	645	<0.8	0.5
50	NB071054	1.5	35	<0.4	37	4	<0.08	<80	13	1.7	<1	159	<0.8	<0.4
51	NB071055	1.2	78	<0.4	62	4	<0.08	<80	47	1.2	<1	464	<0.8	<0.4
52	NB071056	1.7	682	<0.4	86	6	<0.08	<80	31	1.8	7	315	<0.8	<0.4
53	NB072001	1.0	418	<0.4	46	5	<0.08	<80	11	0.7	2	154	<0.8	<0.4
54	NB072002	3.1	180	<0.4	47	8	<0.08	<80	21	2.1	3	230	<0.8	<0.4
55	NB072003	1.0	18	<0.4	30	2	<0.08	<80	22	0.9	<1	353	<0.8	<0.4
56	NB072004	0.5	243	<0.4	47	4	<0.08	<80	22	0.5	3	158	<0.8	<0.4
57	NB072005	0.9	895	<0.4	109	8	<0.08	<80	38	0.9	4	427	<0.8	<0.4
58	NB072006	1.8	73	<0.4	64	6	<0.08	<80	28	1.7	<1	356	<0.8	<0.4
59	NB072007	2.9	49	<0.4	55	2	<0.08	<80	21	3.5	<1	2470	<0.8	0.6
60	NB072009	6.2	1470	<0.4	134	9	<0.08	<80	25	5.3	7	362	<0.8	0.7
61	NB072010	1.2	43	<0.4	53	9	<0.08	<80	35	1.0	2	767	<0.8	<0.4
62	NB072011	1.5	1226	<0.4	96	9	<0.08	<80	15	1.1	4	685	<0.8	<0.4
63	NB072012	3.0	446	<0.4	59	3	<0.08	<80	19	3.3	5	141	<0.8	0.4
64	NB072013	1.2	594	<0.4	74	5	<0.08	<80	11	1.0	3	113	<0.8	<0.4
65	NB072014	1.1	78	<0.4	67	7	<0.08	<80	25	1.1	3	170	<0.8	<0.4
66	NB072015	3.1	50	<0.4	49	2	<0.08	<80	86	2.8	<1	1474	<0.8	0.4
67	NB072016	0.7	48	<0.4	79	3	<0.08	<80	32	0.6	3	1476	<0.8	<0.4
68	NB072017	2.8	615	<0.4	153	8	<0.08	<80	12	2.1	4	221	<0.8	<0.4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
35	NB071038	<2	8	208	<0.4	<0.4	2.4	46	<2	5.1	0.5	467	38	4.8
36	NB071039	<2	8	164	<0.4	<0.4	1.4	71	<2	1.5	<0.4	193	11	4.3
37	NB071040	<2	15	1468	1.5	<0.4	1.6	108	<2	2.7	<0.4	114	11	5.0
38	NB071041	<2	9	111	5.4	<0.4	0.5	418	4	7.2	<0.4	558	11	4.0
39	NB071042	<2	11	161	1.7	<0.4	0.5	108	<2	4.3	<0.4	660	9	4.2
40	NB071043	<2	8	321	<0.4	<0.4	1.8	67	<2	4.5	0.5	155	20	4.8
41	NB071044	<2	23	1344	0.5	<0.4	3.5	128	<2	19.7	1.7	623	19	4.7
42	NB071045	<2	5	590	4.4	<0.4	0.8	108	5	2.6	<0.4	235	26	4.1
43	NB071046	<2	27	235	<0.4	<0.4	2.5	53	<2	10.6	0.9	446	27	5.0
44	NB071047	<2	18	234	<0.4	<0.4	2.2	110	<2	4.2	0.5	188	35	4.0
45	NB071048	<2	16	198	0.9	<0.4	1.6	151	3	3.3	<0.4	431	17	4.3
46	NB071049	<2	6	149	0.8	<0.4	1.2	61	<2	8.1	0.5	311	8	4.5
47	NB071050	<2	11	419	<0.4	<0.4	1.1	57	<2	4.3	<0.4	504	22	5.7
48	NB071051	<2	31	339	<0.4	<0.4	2.8	154	2	25.9	2.2	688	34	4.6
49	NB071052	<2	13	300	<0.4	<0.4	2.2	105	<2	13.2	1.3	1072	26	4.8
50	NB071054	<2	21	179	<0.4	<0.4	2.3	36	<2	9.1	0.9	461	20	5.1
51	NB071055	<2	6	838	0.5	<0.4	3.6	210	<2	6.7	0.7	629	34	4.1
52	NB071056	<2	21	1103	2.6	<0.4	2.3	280	3	9.4	1.1	423	102	4.1
53	NB072001	<2	7	155	3.6	<0.4	<0.4	56	2	1.4	<0.4	422	8	4.4
54	NB072002	<2	14	879	3.4	<0.4	1.1	92	4	8.8	0.5	1278	78	4.6
55	NB072003	<2	6	1273	<0.4	<0.4	1.9	116	<2	4.4	0.5	1541	27	4.8
56	NB072004	<2	7	2009	5.7	<0.4	1.2	150	4	2.7	<0.4	865	22	4.6
57	NB072005	<2	15	963	34.5	<0.4	0.9	217	4	4.7	0.4	1485	36	3.9
58	NB072006	<2	34	619	1.2	<0.4	4.7	125	<2	7.4	0.8	2620	41	4.8
59	NB072007	<2	4	82	1.5	<0.4	2.5	38	<2	17.5	1.4	1341	18	5.7
60	NB072009	<2	14	124	52.9	<0.4	0.6	140	5	19.1	0.7	840	15	4.2
61	NB072010	<2	8	1529	6.4	<0.4	2.0	151	<2	5.3	0.4	1961	45	5.4
62	NB072011	<2	12	433	7.2	<0.4	0.9	128	4	5.2	<0.4	913	24	3.9
63	NB072012	<2	28	471	5.2	<0.4	0.8	89	3	9.2	0.4	600	19	4.4
64	NB072013	<2	20	353	4.9	<0.4	1.0	91	3	5.3	0.8	413	14	3.8
65	NB072014	<2	26	536	1.5	<0.4	1.2	192	3	6.0	0.7	1164	52	4.4
66	NB072015	<2	6	3020	0.6	<0.4	2.5	181	<2	13.7	1.7	414	161	5.0
67	NB072016	<2	6	382	2.4	<0.4	1.3	156	<2	3.7	0.5	2021	31	5.4
68	NB072017	<2	15	128	9.0	<0.4	0.7	120	4	8.4	<0.4	826	10	4.5

PH Layer  
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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 0.4 not milled Water Leach ICP-MS	Al ppm 0.2 not milled Water Leach ICP-MS	As ppb 8 not milled Water Leach ICP-MS	B ppb 40 not milled Water Leach ICP-MS	Ba ppb 10 not milled Water Leach ICP-MS	Be ppb 0.4 not milled Water Leach ICP-MS	Bi ppb 2 not milled Water Leach ICP-MS	Br ppm 2 not milled Water Leach ICP-ES	Ca ppm 2 not milled Water Leach ICP-ES	Cd ppb 1 not milled Water Leach ICP-MS	Ce ppb 0.8 not milled Water Leach ICP-MS	Cl ppm 8 not milled Water Leach ICP-ES	Co ppb 4 not milled Water Leach ICP-MS
69	NB072018	0.5	10.3	35	598	1015	0.5	<2	<2	107	3	18.4	115	23
70	NB072019	0.7	9.3	59	488	708	<0.4	<2	<2	144	5	13.6	96	10
71	NB072020	0.5	23.4	55	171	768	0.5	<2	<2	44	5	7.4	29	13
72	NB072021	<0.4	4.9	35	122	297	<0.4	<2	<2	27	2	12.9	32	6
73	NB072022	<0.4	64.3	59	274	1142	4.5	<2	<2	102	5	37.0	213	78
74	NB072023	1.6	24.4	96	617	510	1.6	<2	<2	70	5	40.4	362	63
75	NB072024	<0.4	37.8	208	257	915	1.5	<2	<2	59	7	24.4	80	29
76	NB072026	<0.4	21.7	86	182	303	0.5	<2	<2	9	1	7.0	69	6
77	NB072027	1.5	10.8	75	455	1878	1.0	<2	<2	105	7	24.2	142	21
78	NB072028	0.7	11.2	39	163	577	0.7	<2	<2	25	3	61.0	79	7
79	NB072029	0.7	19.8	86	255	1106	0.8	<2	<2	47	5	16.2	65	24
80	NB072030	<0.4	13.2	27	100	181	<0.4	<2	<2	14	<1	4.8	17	9
81	NB072031	<0.4	19.9	214	375	662	1.4	<2	<2	23	14	5.6	158	26
82	NB072032	<0.4	18.9	31	127	804	1.4	<2	<2	15	2	9.4	34	16
83	NB072033	<0.4	52.3	82	334	442	0.9	<2	<2	47	4	7.2	109	12
84	NB072034	2.3	9.2	141	289	752	<0.4	<2	<2	80	6	16.1	66	11
85	NB072035	1.0	11.0	59	288	715	<0.4	<2	<2	43	3	12.5	85	7
86	NB072036	0.7	43.1	57	346	150	1.2	<2	<2	76	2	7.8	39	55
87	NB072037	1.2	18.9	94	284	427	0.6	<2	<2	107	8	9.0	32	67
88	NB072038	<0.4	28.1	65	308	361	0.8	<2	<2	9	3	4.7	56	17
89	NB072039	0.6	22.2	68	308	221	<0.4	<2	<2	38	2	8.9	36	14
90	NB072040	0.5	14.7	80	416	581	<0.4	<2	<2	57	13	10.9	63	13
91	NB072041	1.7	11.2	56	223	1635	0.7	<2	<2	116	5	16.1	74	16
92	NB072042	<0.4	27.9	100	254	352	1.0	<2	<2	64	4	6.4	50	11
93	NB072043	2.7	22.1	53	403	252	1.2	<2	<2	263	2	13.6	26	12
94	NB072044	<0.4	45.9	67	183	276	0.9	<2	<2	33	1	6.3	41	13
95	NB072045	<0.4	8.6	24	117	282	<0.4	<2	<2	11	1	4.9	25	<4
96	NB072046	<0.4	105.4	84	187	2354	8.7	<2	<2	41	5	69.1	97	105
97	NB072047	0.6	7.5	16	92	264	<0.4	<2	<2	13	1	6.8	23	<4
98	NB072048	<0.4	17.5	78	158	1208	0.4	<2	<2	62	6	12.5	60	10
99	NB072050	<0.4	19.0	46	401	1418	1.9	<2	<2	36	21	8.1	145	28
100	NB072051	<0.4	33.6	59	223	997	0.8	<2	<2	71	3	7.1	61	18
101	NB072052	<0.4	48.0	47	214	1657	2.8	<2	<2	32	14	11.5	160	59
102	NB072053	1.1	23.3	67	211	458	0.7	<2	<2	48	5	17.8	51	20



PH Layer  
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Variable		Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		8	1	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
69	NB072018	27	3	90	2.0	0.7	0.6	3.5	2	3.1	<2	1.3	<0.4	<1
70	NB072019	37	4	117	0.9	<0.4	<0.4	4.5	2	1.2	<2	1.2	<0.4	<1
71	NB072020	123	<1	51	0.5	<0.4	<0.4	18.5	7	0.6	<2	<0.8	<0.4	<1
72	NB072021	11	<1	41	0.9	<0.4	<0.4	4.7	2	1.4	<2	1.5	<0.4	<1
73	NB072022	44	2	93	2.9	1.3	1.0	30.5	9	4.3	<2	1.7	0.6	<1
74	NB072023	43	<1	124	2.9	1.0	0.9	16.0	6	4.0	<2	1.8	0.5	<1
75	NB072024	53	<1	130	2.1	0.9	0.6	35.3	10	2.4	<2	1.8	<0.4	<1
76	NB072026	30	<1	42	0.6	<0.4	<0.4	26.5	6	0.6	<2	0.9	<0.4	<1
77	NB072027	30	<1	188	2.7	0.8	0.9	9.7	3	3.8	<2	<0.8	<0.4	<1
78	NB072028	15	2	48	3.7	1.3	1.0	6.4	3	4.9	<2	<0.8	0.6	<1
79	NB072029	48	<1	98	1.6	0.5	0.5	19.9	7	2.2	<2	1.2	<0.4	<1
80	NB072030	18	<1	23	<0.4	<0.4	<0.4	12.5	4	0.5	<2	<0.8	<0.4	<1
81	NB072031	61	14	114	0.5	<0.4	<0.4	13.9	4	0.6	<2	1.6	<0.4	<1
82	NB072032	22	<1	45	0.9	<0.4	<0.4	13.2	5	0.9	<2	<0.8	<0.4	<1
83	NB072033	74	<1	96	0.6	<0.4	<0.4	32.7	9	0.7	<2	1.5	<0.4	<1
84	NB072034	33	2	187	1.0	0.5	<0.4	8.0	3	1.5	<2	<0.8	<0.4	<1
85	NB072035	34	1	122	0.9	<0.4	<0.4	11.1	4	1.2	<2	<0.8	<0.4	<1
86	NB072036	73	<1	95	1.7	0.8	<0.4	48.7	5	1.7	<2	2.1	<0.4	<1
87	NB072037	100	<1	103	1.0	0.5	<0.4	17.8	3	1.2	<2	<0.8	<0.4	<1
88	NB072038	83	<1	44	0.5	<0.4	<0.4	16.9	10	0.5	<2	0.9	<0.4	<1
89	NB072039	71	<1	62	0.7	<0.4	<0.4	16.0	7	0.8	<2	1.3	<0.4	<1
90	NB072040	67	<1	105	0.8	0.4	<0.4	13.1	5	1.0	<2	<0.8	<0.4	<1
91	NB072041	39	<1	90	1.3	0.6	0.4	4.5	4	1.7	<2	0.8	<0.4	<1
92	NB072042	67	<1	94	0.7	<0.4	<0.4	25.0	7	0.7	<2	1.1	<0.4	<1
93	NB072043	31	<1	54	3.1	1.9	0.9	23.6	4	4.1	4	<0.8	0.7	<1
94	NB072044	29	<1	59	0.6	<0.4	<0.4	23.0	6	0.6	<2	1.1	<0.4	<1
95	NB072045	<8	<1	14	<0.4	<0.4	<0.4	4.2	2	0.4	<2	<0.8	<0.4	<1
96	NB072046	39	<1	123	7.2	3.5	2.4	55.1	7	10.1	<2	2.2	1.4	<1
97	NB072047	13	<1	29	0.7	<0.4	<0.4	4.7	2	0.8	<2	<0.8	<0.4	<1
98	NB072048	31	1	67	0.7	<0.4	<0.4	9.3	6	0.9	<2	<0.8	<0.4	<1
99	NB072050	82	15	71	0.9	<0.4	<0.4	8.6	3	1.0	<2	<0.8	<0.4	<1
100	NB072051	52	<1	64	0.5	<0.4	<0.4	29.7	8	0.7	<2	1.5	<0.4	<1
101	NB072052	64	1	64	1.2	0.6	<0.4	27.9	9	1.6	<2	1.8	<0.4	<1
102	NB072053	60	<1	147	1.3	0.6	<0.4	14.8	6	1.6	<2	1.8	<0.4	<1

PH Layer  
<2mm fraction  
Water Leach

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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
69	NB072018	653	17.3	12	<0.4	43.0	4835	<4	63	<1	11.7	71	392	222.3
70	NB072019	473	9.7	9	<0.4	29.2	14813	5	52	<1	6.3	83	339	200.9
71	NB072020	68	5.2	24	<0.4	20.2	10363	7	24	<1	2.8	69	116	94.6
72	NB072021	95	11.7	9	<0.4	9.1	7138	6	18	<1	6.3	20	30	135.1
73	NB072022	237	16.6	32	<0.4	39.9	14865	5	54	2	19.0	101	64	166.4
74	NB072023	307	27.4	50	<0.4	35.9	7078	6	142	1	15.6	107	184	236.3
75	NB072024	208	15.7	51	<0.4	23.0	20892	10	45	5	10.5	63	102	216.7
76	NB072026	104	4.5	23	<0.4	5.7	1118	9	34	1	3.3	21	80	118.0
77	NB072027	531	18.8	22	<0.4	30.3	18370	11	95	<1	12.7	81	212	298.5
78	NB072028	179	79.5	14	<0.4	9.5	1095	7	39	<1	24.8	19	134	138.9
79	NB072029	275	10.8	15	<0.4	12.6	8209	8	47	2	7.5	50	154	193.6
80	NB072030	43	2.5	11	<0.4	8.9	3915	<4	13	<1	2.5	<16	13	37.3
81	NB072031	411	3.1	63	<0.4	20.4	2688	4	140	2	2.9	76	121	522.0
82	NB072032	105	6.2	14	<0.4	6.0	5120	12	22	2	4.2	35	84	66.8
83	NB072033	386	3.6	53	<0.4	18.8	12784	<4	43	3	3.6	74	139	116.7
84	NB072034	185	10.7	16	<0.4	11.7	5964	18	46	<1	6.7	91	378	332.1
85	NB072035	322	9.7	38	<0.4	13.1	5350	6	63	<1	5.2	49	342	182.5
86	NB072036	163	3.3	23	<0.4	19.5	11757	11	28	<1	4.4	83	32	36.8
87	NB072037	52	5.9	22	<0.4	32.0	121814	14	28	<1	4.9	129	45	48.9
88	NB072038	105	3.0	33	<0.4	12.8	3538	6	42	1	2.3	42	113	168.5
89	NB072039	126	6.4	23	<0.4	17.4	3859	10	25	1	3.5	49	100	198.1
90	NB072040	220	8.5	31	<0.4	25.7	28528	9	54	1	4.6	90	227	189.7
91	NB072041	294	9.6	7	<0.4	46.7	21237	14	38	<1	8.2	90	198	129.8
92	NB072042	100	4.7	37	<0.4	15.1	5978	10	35	3	3.0	51	109	191.9
93	NB072043	16	9.4	11	<0.4	30.3	5240	18	22	<1	14.3	58	9	16.7
94	NB072044	72	2.8	21	<0.4	11.6	8175	5	22	1	2.9	35	21	110.5
95	NB072045	70	3.4	14	<0.4	9.8	1942	<4	21	<1	2.1	<16	54	45.9
96	NB072046	318	27.1	28	0.4	23.3	3213	9	66	2	41.2	130	82	319.3
97	NB072047	45	3.9	9	<0.4	4.2	2747	7	18	<1	2.9	<16	50	48.3
98	NB072048	274	8.0	27	<0.4	19.3	15403	9	35	1	5.1	46	152	279.9
99	NB072050	723	3.9	47	<0.4	41.5	7842	9	89	1	4.4	65	266	129.2
100	NB072051	181	4.4	44	<0.4	22.3	23812	7	36	3	3.2	50	88	142.1
101	NB072052	251	5.8	82	<0.4	38.5	16668	7	50	4	6.5	63	97	149.1
102	NB072053	191	11.4	8	<0.4	11.3	13760	30	31	5	5.9	68	182	190.8

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
69	NB072018	2.9	741	<0.4	148	2	<0.08	<80	13	2.6	3	580	<0.8	0.4
70	NB072019	1.5	612	<0.4	115	3	<0.08	<80	11	1.2	3	407	<0.8	<0.4
71	NB072020	0.7	41	<0.4	52	2	<0.08	<80	24	0.7	2	307	<0.8	<0.4
72	NB072021	1.7	57	<0.4	15	5	<0.08	<80	6	1.2	1	147	<0.8	<0.4
73	NB072022	4.4	56	<0.4	67	3	<0.08	<80	48	4.6	2	440	<0.8	0.6
74	NB072023	4.3	480	<0.4	91	4	<0.08	<80	28	3.6	4	406	<0.8	0.6
75	NB072024	2.7	135	<0.4	56	13	<0.08	<80	38	2.5	5	314	<0.8	<0.4
76	NB072026	0.8	108	<0.4	49	6	<0.08	<80	18	0.7	2	67	<0.8	<0.4
77	NB072027	3.2	1042	<0.4	100	6	<0.08	<80	12	3.4	4	628	<0.8	0.5
78	NB072028	7.8	631	<0.4	37	6	<0.08	<80	16	4.7	2	281	<0.8	0.8
79	NB072029	1.9	335	<0.4	65	6	<0.08	<80	25	2.0	3	267	<0.8	<0.4
80	NB072030	0.6	33	<0.4	11	2	<0.08	<80	15	0.5	2	97	<0.8	<0.4
81	NB072031	0.7	2033	<0.4	111	8	<0.08	<80	21	0.7	4	213	<0.8	<0.4
82	NB072032	1.1	130	<0.4	33	3	<0.08	<80	17	1.0	3	76	<0.8	<0.4
83	NB072033	0.8	937	<0.4	85	2	<0.08	<80	22	0.7	2	262	<0.8	<0.4
84	NB072034	1.6	349	<0.4	97	8	<0.08	<80	18	1.6	4	406	<0.8	<0.4
85	NB072035	1.2	943	<0.4	101	4	<0.08	<80	21	1.1	3	319	<0.8	<0.4
86	NB072036	0.9	62	<0.4	36	3	<0.08	<80	13	1.3	<1	430	<0.8	<0.4
87	NB072037	1.2	12	<0.4	74	9	<0.08	<80	14	1.0	2	284	<0.8	<0.4
88	NB072038	0.5	133	<0.4	58	5	<0.08	<80	23	0.4	2	74	<0.8	<0.4
89	NB072039	0.9	38	<0.4	57	7	<0.08	<80	21	0.7	3	183	<0.8	<0.4
90	NB072040	1.2	298	<0.4	91	5	<0.08	<80	22	1.0	5	210	<0.8	<0.4
91	NB072041	2.1	92	<0.4	69	3	<0.08	<80	25	1.6	4	882	<0.8	<0.4
92	NB072042	0.7	53	<0.4	48	6	<0.08	<80	22	0.7	2	305	<0.8	<0.4
93	NB072043	3.0	28	<0.4	23	4	<0.08	<80	24	3.7	<1	2132	<0.8	0.6
94	NB072044	0.7	55	<0.4	26	3	<0.08	<80	14	0.7	1	120	<0.8	<0.4
95	NB072045	0.5	219	<0.4	22	2	<0.08	<80	12	0.5	1	119	<0.8	<0.4
96	NB072046	9.3	724	<0.4	133	5	<0.08	<80	16	10.6	4	297	<0.8	1.4
97	NB072047	0.8	191	<0.4	17	1	<0.08	<80	11	0.8	2	<40	<0.8	<0.4
98	NB072048	1.3	789	<0.4	71	7	<0.08	<80	16	0.9	4	228	<0.8	<0.4
99	NB072050	1.1	4289	<0.4	122	4	<0.08	<80	19	1.1	2	306	<0.8	<0.4
100	NB072051	0.8	137	<0.4	58	3	<0.08	<80	22	0.6	2	232	<0.8	<0.4
101	NB072052	1.5	181	<0.4	52	3	<0.08	<80	28	1.4	4	297	<0.8	<0.4
102	NB072053	1.6	398	<0.4	82	6	<0.08	<80	33	1.4	5	200	<0.8	<0.4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
69	NB072018	<2	14	82	5.0	<0.4	<0.4	70	<2	12.5	<0.4	1403	11	4.5
70	NB072019	<2	18	92	16.2	<0.4	0.4	87	2	4.6	<0.4	1307	8	4.7
71	NB072020	<2	15	255	1.2	<0.4	1.0	173	3	2.5	<0.4	1138	15	4.3
72	NB072021	<2	12	75	4.2	<0.4	<0.4	68	<2	4.9	<0.4	212	6	5.2
73	NB072022	<2	37	422	0.6	<0.4	2.2	153	<2	13.4	1.0	498	31	4.7
74	NB072023	<2	21	275	5.8	<0.4	0.8	113	2	13.9	0.6	952	17	4.6
75	NB072024	<2	27	625	3.1	<0.4	1.3	287	3	11.1	0.7	1466	47	4.5
76	NB072026	<2	7	188	1.0	<0.4	0.9	260	<2	2.4	<0.4	212	15	4.5
77	NB072027	<2	5	120	10.8	<0.4	0.7	116	2	12.4	<0.4	1711	9	5.2
78	NB072028	<2	8	166	1.4	<0.4	0.7	101	2	20.0	0.7	304	7	4.4
79	NB072029	<2	8	336	3.6	<0.4	0.6	166	2	7.7	<0.4	1179	21	4.8
80	NB072030	<2	4	310	<0.4	<0.4	0.7	82	<2	1.9	<0.4	297	11	5.0
81	NB072031	<2	16	137	14.0	<0.4	1.0	98	3	2.5	<0.4	504	17	3.6
82	NB072032	<2	6	304	0.8	<0.4	0.8	212	<2	4.4	<0.4	313	11	4.6
83	NB072033	<2	19	318	3.6	<0.4	0.9	155	<2	3.0	<0.4	1459	30	4.1
84	NB072034	<2	8	150	4.6	<0.4	1.1	159	4	5.6	<0.4	1322	9	5.5
85	NB072035	<2	5	98	2.2	<0.4	<0.4	88	<2	4.8	<0.4	528	12	4.5
86	NB072036	<2	11	136	<0.4	<0.4	3.7	154	<2	6.8	0.9	839	51	5.5
87	NB072037	<2	8	120	0.7	<0.4	1.2	201	<2	5.8	0.6	1126	21	5.4
88	NB072038	<2	8	212	1.0	<0.4	0.9	292	<2	2.5	<0.4	454	23	3.9
89	NB072039	<2	11	312	0.7	<0.4	1.4	255	2	3.6	<0.4	369	32	4.7
90	NB072040	<2	10	178	2.3	<0.4	0.9	190	3	4.0	<0.4	3038	16	4.6
91	NB072041	<2	6	206	2.7	<0.4	1.8	121	<2	7.2	0.5	686	13	6.1
92	NB072042	<2	11	335	1.0	<0.4	1.2	407	<2	3.4	<0.4	534	21	4.2
93	NB072043	<2	2	272	<0.4	<0.4	2.0	72	<2	17.5	1.6	479	14	6.0
94	NB072044	<2	11	240	0.4	<0.4	1.4	260	2	2.5	<0.4	302	20	4.7
95	NB072045	<2	3	97	1.1	<0.4	<0.4	31	<2	1.7	<0.4	182	7	4.3
96	NB072046	<2	37	241	3.2	0.4	3.2	212	3	28.7	2.8	724	28	4.1
97	NB072047	<2	3	119	1.4	<0.4	<0.4	58	<2	2.5	<0.4	204	9	4.7
98	NB072048	<2	8	126	6.0	<0.4	0.6	144	4	3.2	<0.4	709	10	4.2
99	NB072050	<2	6	83	13.2	<0.4	0.7	121	7	3.7	<0.4	1830	17	3.9
100	NB072051	<2	10	236	1.5	<0.4	1.0	229	3	2.6	<0.4	541	27	4.4
101	NB072052	<2	14	332	1.1	<0.4	1.3	132	4	6.0	0.5	1341	34	4.0
102	NB072053	<2	11	1374	2.9	<0.4	1.8	312	7	6.2	0.5	1132	40	5.2

PH Layer  
<2mm fraction  
Water Leach

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Variable		Ag	Al	As	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Cl	Co
Unit		ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Min. Detection Limit		0.4	0.2	8	40	10	0.4	2	2	2	1	0.8	8	4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS
103	NB072054	1.5	32.1	83	457	497	2.7	<2	<2	131	2	38.3	30	69
104	NB072055	<0.4	26.8	70	312	442	0.7	<2	<2	25	3	19.5	76	9
105	NB072056	1.0	18.3	87	362	712	0.5	<2	<2	68	13	11.3	71	16
106	NB072057	<0.4	39.9	43	217	509	1.1	<2	<2	16	7	10.4	44	17
107	NB072058	<0.4	68.0	49	301	988	3.4	<2	<2	60	8	18.3	51	99
108	NB072059	0.7	30.7	65	327	900	0.6	<2	<2	83	5	9.4	50	19
109	NB072060	0.4	12.9	33	288	945	<0.4	<2	<2	85	5	14.9	116	6
110	NB072061	0.9	20.1	108	184	240	0.5	<2	<2	24	3	23.5	70	7
111	NB072062	0.8	70.2	37	261	448	2.1	<2	<2	16	3	29.5	80	115
112	NB072063	1.2	13.1	45	326	368	<0.4	<2	<2	48	4	18.0	101	5
113	NB072064	<0.4	19.9	68	189	559	0.5	<2	<2	18	4	8.6	37	7
114	NB072065	1.2	15.5	38	155	2849	1.0	<2	<2	97	5	14.9	62	25
115	NB072066	2.6	154.6	46	496	174	6.8	<2	<2	16	2	81.5	90	95
116	NS071001	0.7	5.8	32	366	161	<0.4	<2	<2	14	4	4.1	117	6
117	NS071002	<0.4	9.1	26	169	143	<0.4	<2	<2	8	2	7.6	89	5
118	NS071003	<0.4	16.4	33	141	706	1.9	<2	<2	24	3	5.4	35	14
119	NS071004	<0.4	29.8	17	64	276	1.7	<2	<2	17	2	8.4	30	20
120	NS071005	<0.4	33.0	44	216	249	0.9	<2	<2	60	1	7.2	37	19
121	NS071006	<0.4	46.1	39	169	456	2.0	<2	<2	54	2	18.7	28	46
122	NS071007	<0.4	65.1	38	243	360	1.3	<2	<2	13	4	15.1	37	32
123	NS071008	0.9	16.5	57	221	587	1.7	<2	<2	65	2	78.1	42	19
124	NS071009	<0.4	5.4	33	292	45	<0.4	<2	<2	15	3	10.0	94	<4
125	NS071010	<0.4	26.1	18	81	213	<0.4	<2	<2	32	3	8.5	40	26
126	NS071011	<0.4	34.5	18	119	82	<0.4	<2	<2	16	3	12.0	30	8
127	NS071012	0.9	21.6	62	342	291	0.7	<2	<2	10	2	7.9	297	7
128	NS071013	<0.4	13.7	23	102	149	<0.4	<2	<2	5	<1	2.9	60	4
129	NS071014	<0.4	27.3	45	242	207	0.6	<2	<2	11	2	7.2	58	23
130	NS071015	2.9	47.0	34	383	145	3.7	<2	3	12	4	145.9	39	26
131	NS071016	0.4	60.8	99	377	809	1.6	<2	<2	48	4	11.1	67	24
132	NS071017	<0.4	17.5	28	263	171	0.5	<2	<2	4	2	2.8	59	5
133	NS071019	<0.4	29.2	69	103	200	0.6	<2	<2	15	2	6.1	35	7
134	NS071020	<0.4	9.7	34	105	41	<0.4	<2	<2	7	<1	2.3	50	<4
135	NS071021	0.7	29.9	20	148	330	1.1	<2	<2	20	3	9.5	14	11
136	NS071022	<0.4	23.4	32	90	195	1.4	<2	<2	18	2	3.3	22	<4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		8	1	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
103	NB072054	38	<1	135	7.7	3.6	2.2	19.7	2	9.8	<2	1.6	1.4	<1
104	NB072055	80	2	75	1.0	0.6	<0.4	13.4	10	1.2	<2	1.5	<0.4	<1
105	NB072056	76	1	131	1.0	0.5	<0.4	14.1	6	1.2	<2	1.0	<0.4	<1
106	NB072057	124	<1	57	0.6	<0.4	<0.4	25.6	8	0.6	<2	1.4	<0.4	<1
107	NB072058	138	1	84	1.8	0.9	0.4	44.0	8	1.9	<2	2.7	<0.4	<1
108	NB072059	81	<1	137	1.0	0.6	<0.4	31.3	9	1.1	<2	1.4	<0.4	<1
109	NB072060	36	7	128	0.9	<0.4	<0.4	5.2	3	1.3	<2	0.8	<0.4	<1
110	NB072061	38	3	106	1.4	0.7	<0.4	13.8	9	1.9	4	1.5	<0.4	<1
111	NB072062	54	<1	80	3.9	2.3	1.0	24.9	7	3.9	3	1.3	0.8	<1
112	NB072063	30	8	67	1.0	<0.4	<0.4	6.2	3	1.3	<2	0.9	<0.4	<1
113	NB072064	40	<1	40	0.5	<0.4	<0.4	20.6	7	0.6	<2	<0.8	<0.4	<1
114	NB072065	31	<1	95	1.0	0.5	<0.4	10.2	5	1.5	<2	0.9	<0.4	<1
115	NB072066	38	<1	184	11.4	5.9	2.7	30.2	3	11.8	5	1.5	2.2	<1
116	NS071001	25	5	105	<0.4	<0.4	<0.4	4.7	2	<0.4	<2	<0.8	<0.4	<1
117	NS071002	20	1	49	0.6	<0.4	<0.4	4.0	3	0.7	<2	<0.8	<0.4	<1
118	NS071003	19	<1	56	0.6	<0.4	<0.4	14.7	4	0.7	<2	<0.8	<0.4	<1
119	NS071004	40	<1	46	0.9	0.5	<0.4	17.3	3	1.0	<2	1.1	<0.4	<1
120	NS071005	32	<1	52	0.8	0.4	<0.4	35.1	4	1.0	<2	<0.8	<0.4	<1
121	NS071006	69	<1	80	1.6	0.8	0.4	39.4	4	1.8	<2	2.3	<0.4	<1
122	NS071007	109	1	71	1.0	0.5	<0.4	70.9	8	1.1	<2	2.4	<0.4	<1
123	NS071008	18	<1	289	7.7	3.6	2.7	7.3	2	11.8	<2	1.8	1.4	<1
124	NS071009	20	67	18	0.7	<0.4	<0.4	1.7	2	1.0	<2	<0.8	<0.4	<1
125	NS071010	24	<1	32	0.8	0.5	<0.4	13.7	3	1.1	<2	<0.8	<0.4	<1
126	NS071011	25	<1	51	1.2	0.7	<0.4	22.0	6	1.3	<2	<0.8	<0.4	<1
127	NS071012	61	2	37	0.6	<0.4	<0.4	11.2	6	0.6	<2	1.4	<0.4	<1
128	NS071013	19	<1	22	<0.4	<0.4	<0.4	8.6	5	<0.4	<2	<0.8	<0.4	<1
129	NS071014	38	1	41	0.6	<0.4	<0.4	33.7	8	0.6	<2	0.9	<0.4	<1
130	NS071015	53	3	120	11.5	6.2	3.3	16.9	4	14.0	4	3.7	2.1	<1
131	NS071016	107	2	165	0.7	<0.4	<0.4	64.6	11	0.6	<2	2.2	<0.4	<1
132	NS071017	50	<1	25	<0.4	<0.4	<0.4	22.6	5	<0.4	<2	<0.8	<0.4	<1
133	NS071019	45	1	22	0.6	<0.4	<0.4	18.9	7	0.7	<2	<0.8	<0.4	<1
134	NS071020	17	7	22	<0.4	<0.4	<0.4	5.8	4	<0.4	3	<0.8	<0.4	<1
135	NS071021	19	2	28	1.5	0.7	<0.4	7.2	2	1.4	<2	<0.8	<0.4	<1
136	NS071022	13	1	25	<0.4	<0.4	<0.4	16.0	6	<0.4	<2	<0.8	<0.4	<1

PH Layer  
<2mm fraction  
Water Leach

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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
103	NB072054	166	21.8	12	<0.4	29.2	19955	14	22	1	26.7	139	45	44.6
104	NB072055	260	15.8	26	<0.4	11.2	2813	8	42	1	7.0	56	229	311.5
105	NB072056	255	10.9	24	<0.4	20.7	30024	14	43	2	4.9	94	246	186.2
106	NB072057	128	6.7	42	<0.4	14.2	6568	5	34	2	4.5	67	98	185.0
107	NB072058	50	9.7	120	<0.4	49.1	5515	<4	34	2	8.8	164	23	152.9
108	NB072059	179	5.6	21	<0.4	21.8	19810	10	34	1	4.2	105	112	115.4
109	NB072060	566	9.3	14	<0.4	19.9	20579	5	58	<1	6.8	54	463	171.4
110	NB072061	124	15.4	14	<0.4	10.1	2991	22	40	5	9.1	48	168	448.4
111	NB072062	193	18.2	9	<0.4	7.6	14253	7	44	3	19.3	55	13	143.6
112	NB072063	369	12.9	11	<0.4	13.4	7913	4	49	<1	6.7	35	180	166.3
113	NB072064	72	5.2	27	<0.4	8.0	4227	9	30	2	3.3	37	63	213.9
114	NB072065	264	8.8	14	<0.4	20.5	35975	11	28	1	6.1	63	173	102.2
115	NB072066	171	31.1	5	0.8	5.8	2645	19	48	<1	46.2	86	23	126.6
116	NS071001	271	2.4	36	<0.4	6.6	3119	8	83	<1	1.6	45	464	56.3
117	NS071002	167	5.2	17	<0.4	9.8	1100	4	84	<1	2.9	24	109	189.9
118	NS071003	54	2.6	25	<0.4	13.5	3510	7	25	<1	2.9	33	24	40.5
119	NS071004	20	3.7	68	<0.4	11.8	7291	<4	21	1	4.4	32	15	37.7
120	NS071005	51	3.3	49	<0.4	22.1	4318	4	50	1	3.8	47	23	47.5
121	NS071006	55	5.9	74	<0.4	17.7	12229	<4	30	4	7.8	43	17	89.3
122	NS071007	51	6.8	188	<0.4	20.1	14579	<4	35	2	6.7	56	10	176.6
123	NS071008	44	43.1	9	0.4	13.1	5000	12	85	<1	48.1	164	11	95.3
124	NS071009	219	6.7	13	<0.4	17.1	412	5	135	<1	3.6	<16	151	74.6
125	NS071010	29	4.0	26	<0.4	9.8	25600	<4	18	<1	4.5	34	<4	23.6
126	NS071011	20	5.2	12	<0.4	15.1	893	<4	35	1	5.6	81	5	36.3
127	NS071012	183	3.8	154	<0.4	34.4	4737	5	186	6	2.9	35	82	90.1
128	NS071013	37	1.4	26	<0.4	5.8	605	<4	52	<1	1.1	<16	31	66.3
129	NS071014	41	2.6	37	<0.4	16.1	10701	<4	48	2	2.4	22	14	45.3
130	NS071015	60	40.8	13	0.8	7.5	40642	4	47	<1	62.9	67	9	36.6
131	NS071016	137	6.2	128	<0.4	44.3	11498	5	76	2	4.1	63	45	131.4
132	NS071017	29	1.4	46	<0.4	4.6	1487	<4	30	<1	1.4	<16	<4	35.9
133	NS071019	53	3.3	47	<0.4	10.6	2296	<4	25	2	3.0	17	9	63.5
134	NS071020	47	1.3	15	<0.4	4.4	641	6	52	3	1.0	<16	44	86.7
135	NS071021	56	4.3	11	<0.4	7.4	3244	<4	13	<1	5.2	19	6	21.1
136	NS071022	16	1.7	55	<0.4	5.3	13231	<4	17	<1	1.4	<16	16	38.0

PH Layer  
<2mm fraction  
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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
103	NB072054	6.0	39	<0.4	45	2	<0.08	<80	16	8.4	<1	518	<0.8	1.4
104	NB072055	1.8	582	<0.4	93	7	<0.08	<80	25	1.2	5	145	<0.8	<0.4
105	NB072056	1.3	233	<0.4	89	4	<0.08	<80	37	1.0	7	350	<0.8	<0.4
106	NB072057	1.2	198	<0.4	63	4	<0.08	<80	28	0.8	4	187	<0.8	<0.4
107	NB072058	2.1	23	<0.4	39	4	<0.08	<80	32	1.9	1	612	<0.8	<0.4
108	NB072059	1.0	168	<0.4	62	4	<0.08	<80	15	1.0	3	371	<0.8	<0.4
109	NB072060	1.6	2149	<0.4	144	2	<0.08	<80	26	1.3	3	323	<0.8	<0.4
110	NB072061	2.4	794	<0.4	73	19	<0.08	<80	20	1.8	7	104	<0.8	<0.4
111	NB072062	4.8	438	<0.4	52	4	<0.08	<80	23	4.0	2	94	<0.8	0.6
112	NB072063	1.8	2090	<0.4	71	4	<0.08	<80	17	1.3	3	163	<0.8	<0.4
113	NB072064	0.9	171	<0.4	23	8	<0.08	<80	23	0.6	2	93	<0.8	<0.4
114	NB072065	1.4	447	<0.4	65	2	<0.08	<80	32	1.3	5	395	<0.8	<0.4
115	NB072066	10.6	540	<0.4	111	8	<0.08	<80	31	12.4	3	73	<0.8	2.0
116	NS071001	0.4	799	<0.4	103	<1	<0.08	<80	37	<0.4	2	65	<0.8	<0.4
117	NS071002	0.8	462	<0.4	60	3	<0.08	<80	12	0.6	6	77	<0.8	<0.4
118	NS071003	0.7	17	<0.4	23	<1	<0.08	<80	15	0.8	1	113	<0.8	<0.4
119	NS071004	1.0	33	<0.4	15	<1	<0.08	<80	14	1.3	<1	69	<0.8	<0.4
120	NS071005	0.9	7	<0.4	37	1	<0.08	<80	15	0.9	<1	153	<0.8	<0.4
121	NS071006	1.8	22	<0.4	34	2	<0.08	<80	22	2.0	<1	134	<0.8	<0.4
122	NS071007	1.7	74	<0.4	41	5	<0.08	<80	21	1.4	1	134	<0.8	<0.4
123	NS071008	11.6	37	<0.4	30	5	<0.08	<80	19	11.7	<1	178	<0.8	1.6
124	NS071009	1.1	2744	<0.4	98	4	<0.08	<80	11	0.8	2	274	<0.8	<0.4
125	NS071010	1.1	19	<0.4	17	<1	<0.08	<80	12	1.0	<1	107	<0.8	<0.4
126	NS071011	1.4	18	<0.4	24	<1	<0.08	<80	13	1.3	<1	140	<0.8	<0.4
127	NS071012	0.7	538	<0.4	48	3	<0.08	<80	22	0.6	2	181	<0.8	<0.4
128	NS071013	<0.4	29	<0.4	16	<1	<0.08	<80	19	<0.4	<1	74	<0.8	<0.4
129	NS071014	0.6	36	<0.4	27	2	<0.08	<80	15	0.5	1	92	<0.8	<0.4
130	NS071015	14.2	161	<0.4	79	2	<0.08	<80	36	14.6	<1	69	<0.8	2.2
131	NS071016	1.1	68	<0.4	58	3	<0.08	<80	47	0.8	3	299	<0.8	<0.4
132	NS071017	<0.4	82	<0.4	27	<1	<0.08	<80	12	<0.4	<1	62	<0.8	<0.4
133	NS071019	0.8	108	<0.4	19	2	<0.08	<80	22	0.7	2	148	<0.8	<0.4
134	NS071020	<0.4	241	<0.4	29	6	<0.08	<80	11	<0.4	2	45	<0.8	<0.4
135	NS071021	1.2	263	<0.4	18	<1	<0.08	<80	31	1.3	<1	95	<0.8	<0.4
136	NS071022	<0.4	36	<0.4	17	2	<0.08	<80	18	<0.4	4	101	<0.8	<0.4



PH Layer  
<2mm fraction  
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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
103	NB072054	<2	21	232	<0.4	0.5	2.6	137	2	36.1	2.6	488	40	6.0
104	NB072055	<2	12	217	2.2	<0.4	1.0	188	3	5.5	0.5	587	31	4.2
105	NB072056	<2	9	457	1.9	<0.4	1.2	160	4	6.0	0.4	2211	21	5.4
106	NB072057	<2	17	387	1.0	<0.4	1.3	157	<2	3.0	0.4	387	30	3.9
107	NB072058	<2	23	322	<0.4	<0.4	1.3	291	<2	8.6	0.9	1587	58	4.3
108	NB072059	<2	9	304	1.9	<0.4	0.9	308	2	5.1	0.5	1024	36	4.8
109	NB072060	<2	11	84	5.3	<0.4	0.4	85	4	4.5	<0.4	590	9	4.5
110	NB072061	<2	21	880	4.3	<0.4	1.3	336	7	7.6	0.5	356	13	4.5
111	NB072062	<2	21	788	3.8	<0.4	3.0	212	<2	20.3	2.2	480	19	4.9
112	NB072063	<2	18	146	4.6	<0.4	0.4	85	2	4.8	<0.4	973	9	4.4
113	NB072064	<2	7	336	4.6	<0.4	1.0	148	2	2.6	<0.4	388	12	4.4
114	NB072065	<2	8	281	2.9	<0.4	1.0	112	2	4.8	<0.4	608	15	5.4
115	NB072066	<2	43	165	2.8	0.9	18.2	152	2	44.2	5.4	217	26	5.5
116	NS071001	<2	4	73	2.1	<0.4	<0.4	50	3	1.1	<0.4	599	9	5.2
117	NS071002	<2	6	73	1.3	<0.4	0.5	63	3	2.7	<0.4	266	9	4.1
118	NS071003	<2	10	160	<0.4	<0.4	1.1	104	<2	3.2	<0.4	346	12	4.8
119	NS071004	<2	25	225	<0.4	<0.4	3.8	66	<2	4.0	0.5	170	26	4.5
120	NS071005	<2	12	337	<0.4	<0.4	1.8	98	<2	3.4	<0.4	271	15	4.7
121	NS071006	<2	38	504	<0.4	<0.4	4.5	126	<2	5.8	0.7	368	57	4.6
122	NS071007	<2	28	199	<0.4	<0.4	2.9	65	<2	4.1	0.5	389	48	4.1
123	NS071008	<2	19	153	<0.4	0.4	3.8	120	2	36.1	2.8	271	40	6.7
124	NS071009	<2	8	52	7.5	<0.4	<0.4	125	7	3.7	<0.4	294	7	3.8
125	NS071010	<2	7	295	<0.4	<0.4	1.3	32	<2	3.9	0.5	290	17	4.9
126	NS071011	<2	7	522	<0.4	<0.4	3.4	96	<2	5.6	0.9	279	10	4.5
127	NS071012	<2	23	526	4.2	<0.4	1.0	156	2	2.8	<0.4	228	11	4.2
128	NS071013	<2	5	109	0.4	<0.4	0.7	51	<2	1.0	<0.4	101	10	4.2
129	NS071014	<2	10	296	<0.4	<0.4	1.5	187	<2	2.4	<0.4	390	19	4.4
130	NS071015	<2	52	190	2.5	0.9	15.6	39	<2	48.7	6.1	125	91	5.6
131	NS071016	<2	38	279	0.8	<0.4	1.7	257	<2	3.0	0.4	614	44	4.1
132	NS071017	<2	3	107	0.5	<0.4	1.1	39	<2	1.0	<0.4	186	20	4.2
133	NS071019	<2	13	555	0.5	<0.4	1.3	91	<2	2.9	<0.4	249	14	4.6
134	NS071020	<2	4	372	1.6	<0.4	0.7	81	3	1.1	<0.4	123	6	4.3
135	NS071021	<2	5	190	1.3	<0.4	2.8	27	<2	6.3	0.6	253	15	5.4
136	NS071022	<2	18	144	0.7	<0.4	2.6	53	<2	1.1	<0.4	191	16	4.5

PH Layer  
<2mm fraction  
Water Leach

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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 0.4 not milled Water Leach ICP-MS	Al ppm 0.2 not milled Water Leach ICP-MS	As ppb 8 not milled Water Leach ICP-MS	B ppb 40 not milled Water Leach ICP-MS	Ba ppb 10 not milled Water Leach ICP-MS	Be ppb 0.4 not milled Water Leach ICP-MS	Bi ppb 2 not milled Water Leach ICP-MS	Br ppm 2 not milled Water Leach ICP-ES	Ca ppm 2 not milled Water Leach ICP-ES	Cd ppb 1 not milled Water Leach ICP-MS	Ce ppb 0.8 not milled Water Leach ICP-MS	Cl ppm 8 not milled Water Leach ICP-ES	Co ppb 4 not milled Water Leach ICP-MS
137	NS071023	1.1	10.5	40	494	190	<0.4	<2	<2	30	2	40.1	123	5
138	NS071024	<0.4	13.7	28	118	77	<0.4	<2	<2	2	<1	4.5	73	4
139	NS071025	<0.4	42.7	88	255	261	1.3	<2	<2	9	6	22.4	80	27
140	NS071026	<0.4	37.2	88	234	186	1.3	<2	<2	21	3	28.1	30	37
141	NS071027	1.4	46.5	52	283	109	0.5	<2	<2	24	3	11.1	32	8
142	NS071028	<0.4	59.7	27	250	370	1.7	<2	<2	20	9	52.2	40	318
143	NS071029	<0.4	52.7	22	268	159	1.0	<2	<2	19	2	9.3	37	20
144	NS071030	0.4	45.9	22	366	565	3.2	<2	4	68	2	108.9	33	15
145	NS071031	<0.4	30.9	26	251	366	1.0	<2	2	29	1	4.7	16	20
146	NS071032	<0.4	69.2	55	144	439	1.0	<2	2	25	3	31.3	51	8
147	NS071033	0.6	29.7	35	234	378	3.3	<2	<2	24	2	8.5	65	22
148	NS071034	<0.4	45.9	25	240	467	3.4	<2	<2	59	1	31.6	26	58
149	NS071036	<0.4	34.5	29	108	241	0.8	<2	2	13	3	10.1	53	97
150	NS071037	<0.4	23.1	14	117	995	0.8	<2	<2	8	2	36.4	31	42
151	NS071038	<0.4	34.7	64	128	226	1.2	<2	<2	54	1	15.2	17	23
152	NS071039	<0.4	35.9	29	213	389	1.4	<2	<2	19	2	11.7	33	15
153	NS071040	<0.4	35.5	19	95	304	1.9	<2	3	11	6	19.9	78	197
154	NS071041	<0.4	6.1	34	379	50	<0.4	<2	<2	5	2	7.3	76	<4
155	NS071042	<0.4	11.1	31	210	108	<0.4	<2	<2	<2	<1	3.0	18	<4
156	NS071043	0.4	17.6	17	88	167	0.4	<2	<2	19	<1	18.7	11	<4
157	NS071044	<0.4	40.4	28	133	132	0.9	<2	2	23	1	51.6	20	14
158	NS071045	<0.4	22.9	11	136	310	0.8	<2	<2	31	3	4.6	31	11
159	NS071046	<0.4	46.3	23	167	185	0.7	<2	3	27	1	6.9	50	<4
160	NS071047	<0.4	38.6	41	169	356	0.4	<2	<2	26	4	7.4	51	5
161	NS071048													
162	NS071049	1.0	92.0	63	671	178	4.7	<2	4	16	2	44.6	164	65
163	NS071050	<0.4	54.5	23	119	250	1.7	<2	<2	12	7	20.4	46	16
164	NS071052	<0.4	33.6	41	255	344	0.7	<2	<2	14	3	15.7	56	25
165	NS071053	<0.4	24.7	61	87	67	0.8	<2	<2	8	<1	10.8	21	4
166	NS071054	<0.4	42.5	29	105	226	1.6	<2	<2	20	1	53.0	25	36
167	NS071055	<0.4	53.7	93	128	477	1.0	<2	<2	30	3	7.1	40	6
168	NS071056	2.1	26.0	30	557	310	1.7	<2	2	176	2	36.0	21	26
169	NS071057	<0.4	41.6	80	231	4829	2.2	<2	<2	65	3	14.3	43	28
170	PE071001	0.6	14.0	22	153	43	<0.4	<2	<2	47	<1	3.7	15	6

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
Soil Geochemistry Data

Variable		Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		8	1	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
137	NS071023	20	6	48	2.6	1.0	0.7	3.9	2	3.4	<2	0.8	0.5	<1
138	NS071024	27	1	21	<0.4	<0.4	<0.4	14.9	4	<0.4	<2	<0.8	<0.4	<1
139	NS071025	65	<1	49	2.4	1.5	0.7	46.1	6	2.8	<2	1.5	0.5	<1
140	NS071026	44	<1	116	2.6	1.4	0.9	35.8	4	3.4	3	1.0	0.5	<1
141	NS071027	63	<1	97	0.9	0.5	<0.4	49.3	6	0.9	<2	2.2	<0.4	<1
142	NS071028	41	<1	97	5.9	3.4	1.4	20.9	4	6.5	<2	1.6	1.3	<1
143	NS071029	78	<1	28	1.0	0.5	<0.4	61.4	5	1.0	<2	1.3	<0.4	<1
144	NS071030	28	2	38	9.3	5.3	1.9	8.5	2	10.1	<2	1.5	1.9	<1
145	NS071031	51	<1	65	0.4	<0.4	<0.4	40.3	3	0.5	<2	1.0	<0.4	<1
146	NS071032	73	<1	34	1.8	0.8	0.5	27.2	3	1.9	<2	2.4	<0.4	<1
147	NS071033	20	2	53	0.7	<0.4	<0.4	5.9	3	1.0	3	<0.8	<0.4	<1
148	NS071034	74	<1	93	3.1	1.5	0.8	23.5	3	3.9	<2	3.5	0.6	<1
149	NS071036	35	<1	31	0.7	0.4	<0.4	22.0	2	0.9	<2	1.5	<0.4	<1
150	NS071037	47	2	40	4.1	2.3	1.2	8.9	2	4.7	<2	<0.8	0.8	<1
151	NS071038	29	<1	78	2.2	1.0	0.6	16.2	3	2.7	<2	1.4	<0.4	<1
152	NS071039	51	<1	30	1.1	0.5	<0.4	34.5	6	1.3	<2	1.3	<0.4	<1
153	NS071040	41	<1	48	3.0	1.5	0.8	12.5	1	3.3	<2	2.0	0.6	<1
154	NS071041	15	11	31	0.5	<0.4	<0.4	2.5	1	0.7	<2	<0.8	<0.4	<1
155	NS071042	27	<1	19	<0.4	<0.4	<0.4	14.2	4	<0.4	<2	<0.8	<0.4	<1
156	NS071043	16	<1	19	1.3	0.5	<0.4	5.0	<1	1.3	<2	<0.8	<0.4	<1
157	NS071044	39	<1	52	3.5	1.6	1.1	11.7	2	4.2	<2	1.2	0.6	<1
158	NS071045	36	2	26	0.6	<0.4	<0.4	8.1	1	0.5	<2	<0.8	<0.4	<1
159	NS071046	69	2	16	0.9	0.4	<0.4	14.0	7	0.8	<2	<0.8	<0.4	<1
160	NS071047	161	1	45	0.6	<0.4	<0.4	44.4	11	0.6	<2	1.3	<0.4	<1
161	NS071048													
162	NS071049	39	<1	133	4.4	2.5	1.2	9.3	4	4.8	2	0.8	0.9	<1
163	NS071050	105	<1	31	2.0	1.0	0.5	31.0	3	2.1	<2	2.6	<0.4	<1
164	NS071052	73	<1	42	1.0	0.5	<0.4	46.0	5	1.2	<2	0.9	<0.4	<1
165	NS071053	48	2	28	1.2	0.6	<0.4	18.1	5	1.2	<2	<0.8	<0.4	<1
166	NS071054	54	1	61	2.9	1.1	0.6	29.7	2	2.7	<2	1.6	0.5	<1
167	NS071055	29	<1	40	1.0	0.4	<0.4	13.0	8	1.0	2	<0.8	<0.4	<1
168	NS071056	76	<1	384	21.7	15.1	5.2	20.5	3	23.2	3	2.4	5.0	<1
169	NS071057	57	1	123	1.3	0.6	0.4	29.9	6	1.7	<2	1.2	<0.4	<1
170	PE071001	13	<1	54	<0.4	<0.4	<0.4	10.1	3	0.5	<2	<0.8	<0.4	<1

PH Layer  
<2mm fraction  
Water Leach

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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
137	NS071023	182	24.7	23	<0.4	11.2	1392	<4	125	<1	15.3	23	194	83.5
138	NS071024	15	2.3	17	<0.4	6.7	538	<4	33	<1	2.2	<16	4	55.7
139	NS071025	26	8.5	66	<0.4	14.4	2721	<4	34	2	12.2	46	5	158.1
140	NS071026	43	10.1	26	<0.4	13.3	15738	<4	41	<1	16.5	49	4	162.7
141	NS071027	39	4.5	73	<0.4	24.0	4522	<4	36	2	4.8	64	12	74.7
142	NS071028	35	19.8	17	<0.4	20.4	25530	<4	37	1	30.3	28	<4	56.8
143	NS071029	28	3.6	60	<0.4	22.3	2652	<4	34	<1	4.2	73	<4	61.7
144	NS071030	55	29.0	13	0.7	24.9	10774	5	57	<1	44.7	27	<4	13.4
145	NS071031	21	2.2	70	<0.4	18.9	3477	<4	22	<1	2.2	49	15	74.2
146	NS071032	54	11.2	43	<0.4	21.7	1675	<4	28	2	10.9	26	4	75.6
147	NS071033	90	4.6	32	<0.4	13.0	856	5	52	1	4.2	54	41	86.6
148	NS071034	25	10.0	75	<0.4	32.0	9813	<4	49	<1	15.0	52	<4	74.1
149	NS071036	31	4.1	21	<0.4	11.4	10715	<4	32	<1	5.5	48	<4	28.4
150	NS071037	19	10.7	81	<0.4	8.1	28407	<4	20	<1	18.9	62	5	11.9
151	NS071038	28	6.2	27	<0.4	13.8	6008	<4	17	<1	10.0	44	8	58.8
152	NS071039	49	4.2	69	<0.4	17.9	5409	<4	28	<1	5.7	48	18	67.2
153	NS071040	40	6.1	46	<0.4	13.9	18672	<4	43	<1	10.4	45	<4	34.3
154	NS071041	137	4.8	12	<0.4	16.4	807	<4	137	<1	3.0	<16	116	87.3
155	NS071042	20	1.3	36	<0.4	2.2	389	<4	22	4	1.3	<16	20	45.9
156	NS071043	26	6.3	6	<0.4	6.8	2063	<4	11	<1	6.4	<16	<4	14.9
157	NS071044	24	21.9	22	<0.4	11.2	3105	<4	17	<1	24.2	29	<4	31.2
158	NS071045	34	2.2	24	<0.4	16.9	2853	<4	26	<1	2.4	20	<4	13.7
159	NS071046	86	2.9	19	<0.4	20.2	407	<4	52	3	3.6	<16	7	35.4
160	NS071047	101	3.2	30	<0.4	16.9	717	<4	54	8	3.0	24	5	94.2
161	NS071048													
162	NS071049	265	25.7	15	<0.4	16.0	2126	12	107	2	20.5	156	59	178.5
163	NS071050	36	6.5	83	<0.4	20.9	1286	<4	51	1	8.8	41	<4	55.7
164	NS071052	47	9.0	90	<0.4	20.2	4656	<4	34	2	8.0	52	<4	139.6
165	NS071053	12	4.7	25	<0.4	7.0	450	<4	17	3	5.4	23	5	31.6
166	NS071054	73	14.2	51	<0.4	11.4	10415	<4	19	<1	12.7	35	<4	74.5
167	NS071055	73	3.1	47	<0.4	14.0	2974	<4	34	3	3.5	22	14	104.8
168	NS071056	45	38.7	23	2.7	36.4	7291	4	60	<1	71.4	59	8	13.7
169	NS071057	57	5.9	91	<0.4	22.1	4732	5	44	2	6.6	60	18	124.4
170	PE071001	225	1.9	<2	<0.4	14.6	1659	10	11	<1	1.9	<16	9	6.4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
137	NS071023	3.9	483	<0.4	70	2	<0.08	<80	15	3.4	2	101	<0.8	0.5
138	NS071024	0.6	25	<0.4	9	<1	<0.08	<80	8	0.5	<1	41	<0.8	<0.4
139	NS071025	2.8	31	<0.4	23	3	<0.08	<80	14	3.0	<1	417	<0.8	0.4
140	NS071026	3.6	37	<0.4	32	4	<0.08	<80	18	3.9	<1	106	<0.8	0.5
141	NS071027	1.2	21	<0.4	38	4	<0.08	<80	18	1.0	<1	212	<0.8	<0.4
142	NS071028	6.8	38	<0.4	43	5	<0.08	<80	23	7.0	<1	205	<0.8	1.0
143	NS071029	1.0	19	<0.4	32	1	<0.08	<80	13	1.1	<1	141	<0.8	<0.4
144	NS071030	10.1	108	<0.4	29	1	<0.08	<80	33	10.3	<1	227	<0.8	1.5
145	NS071031	0.5	23	<0.4	27	2	<0.08	<80	15	0.4	<1	171	<0.8	<0.4
146	NS071032	2.8	71	<0.4	37	1	<0.08	<80	21	2.4	<1	310	<0.8	<0.4
147	NS071033	1.0	322	<0.4	54	4	<0.08	<80	13	1.0	2	227	<0.8	<0.4
148	NS071034	3.2	31	<0.4	22	<1	<0.08	<80	23	4.0	<1	554	<0.8	0.6
149	NS071036	1.3	84	<0.4	43	<1	<0.08	<80	18	1.3	<1	128	<0.8	<0.4
150	NS071037	3.9	101	<0.4	33	<1	<0.08	<80	15	4.5	<1	49	<0.8	0.7
151	NS071038	2.1	19	<0.4	15	<1	<0.08	<80	16	2.5	<1	137	<0.8	0.4
152	NS071039	1.3	44	<0.4	30	2	<0.08	<80	25	1.2	<1	156	<0.8	<0.4
153	NS071040	2.3	58	<0.4	42	<1	<0.08	<80	13	3.1	<1	65	<0.8	0.5
154	NS071041	0.8	524	<0.4	70	2	<0.08	<80	10	0.7	2	67	<0.8	<0.4
155	NS071042	<0.4	34	<0.4	17	1	<0.08	<80	11	<0.4	<1	<40	<0.8	<0.4
156	NS071043	1.7	118	<0.4	10	<1	<0.08	<80	17	1.6	<1	134	<0.8	<0.4
157	NS071044	6.2	120	<0.4	22	<1	<0.08	<80	21	5.0	<1	208	<0.8	0.6
158	NS071045	0.6	116	<0.4	56	<1	<0.08	<80	46	0.6	<1	297	<0.8	<0.4
159	NS071046	0.8	242	<0.4	32	2	<0.08	<80	37	0.9	<1	373	<0.8	<0.4
160	NS071047	0.7	368	<0.4	35	2	<0.08	<80	20	0.7	2	300	<0.8	<0.4
161	NS071048													
162	NS071049	5.3	639	<0.4	87	9	<0.08	<80	15	4.5	5	185	<0.8	0.8
163	NS071050	2.2	119	<0.4	52	2	<0.08	<80	27	2.3	<1	210	<0.8	<0.4
164	NS071052	1.9	24	<0.4	32	3	<0.08	<80	11	1.5	1	140	<0.8	<0.4
165	NS071053	1.4	32	<0.4	9	<1	<0.08	<80	9	1.3	<1	55	<0.8	<0.4
166	NS071054	3.1	295	<0.4	25	2	<0.08	<80	29	2.8	<1	164	<0.8	0.5
167	NS071055	0.9	158	<0.4	29	2	<0.08	<80	25	1.0	1	196	<0.8	<0.4
168	NS071056	14.4	28	<0.4	30	2	0.12	<80	76	19.4	<1	861	<0.8	3.7
169	NS071057	1.5	44	<0.4	40	2	<0.08	<80	27	1.6	2	230	<0.8	<0.4
170	PE071001	0.5	98	<0.4	12	<1	<0.08	<80	9	<0.4	<1	81	<0.8	<0.4

PH Layer  
<2mm fraction  
Water Leach

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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
137	NS071023	<2	16	75	2.2	<0.4	<0.4	63	<2	13.1	0.6	232	6	4.3
138	NS071024	<2	3	116	<0.4	<0.4	0.7	42	<2	1.6	<0.4	108	13	4.3
139	NS071025	<2	10	209	0.4	<0.4	3.3	63	2	12.7	1.6	530	35	4.2
140	NS071026	<2	11	142	0.5	<0.4	2.6	68	<2	12.9	1.4	397	19	4.7
141	NS071027	<2	22	353	<0.4	<0.4	2.5	94	<2	3.7	0.4	632	23	4.5
142	NS071028	<2	6	475	<0.4	0.5	6.9	33	<2	27.8	3.0	1529	27	4.8
143	NS071029	<2	4	181	<0.4	<0.4	2.6	31	<2	4.2	0.5	195	23	4.3
144	NS071030	<2	8	263	1.1	0.8	10.6	32	<2	42.2	5.3	167	24	5.9
145	NS071031	<2	12	154	<0.4	<0.4	2.0	61	<2	1.8	<0.4	116	17	4.3
146	NS071032	<2	19	352	<0.4	<0.4	3.5	33	<2	5.4	0.7	289	57	4.3
147	NS071033	<2	7	362	1.2	<0.4	0.9	116	3	4.2	<0.4	258	11	4.5
148	NS071034	<2	6	113	<0.4	<0.4	10.8	27	<2	12.4	1.3	243	78	4.9
149	NS071036	<2	3	89	<0.4	<0.4	2.0	12	<2	2.8	0.4	308	33	4.8
150	NS071037	<2	<2	61	0.5	<0.4	1.4	25	<2	20.1	1.8	215	9	4.9
151	NS071038	<2	15	196	<0.4	<0.4	2.0	62	<2	9.9	0.7	253	32	5.2
152	NS071039	<2	10	207	<0.4	<0.4	1.2	52	<2	4.5	0.5	328	27	4.4
153	NS071040	<2	<2	75	<0.4	<0.4	3.0	16	<2	10.1	1.4	186	45	4.6
154	NS071041	<2	7	46	2.2	<0.4	0.5	50	2	2.8	<0.4	272	8	4.0
155	NS071042	<2	6	726	<0.4	<0.4	1.2	77	<2	1.4	<0.4	65	10	4.3
156	NS071043	<2	2	75	0.5	<0.4	2.3	<8	<2	4.4	0.5	57	11	5.5
157	NS071044	<2	19	228	0.5	<0.4	4.0	17	<2	12.9	1.3	105	28	5.2
158	NS071045	<2	<2	154	0.8	<0.4	1.3	13	<2	2.4	<0.4	182	5	5.1
159	NS071046	<2	11	748	2.7	<0.4	1.7	92	<2	2.9	<0.4	252	15	4.3
160	NS071047	<2	18	1432	3.2	<0.4	1.5	123	<2	2.8	<0.4	268	28	4.1
161	NS071048													
162	NS071049	<2	10	256	2.8	<0.4	1.6	227	4	27.2	1.9	332	19	4.7
163	NS071050	<2	13	303	0.8	<0.4	3.0	39	<2	7.5	0.9	414	57	4.2
164	NS071052	<2	3	141	<0.4	<0.4	2.1	58	<2	4.2	0.4	523	22	4.1
165	NS071053	<2	11	308	<0.4	<0.4	4.8	190	<2	4.3	0.5	158	14	4.4
166	NS071054	<2	15	191	0.9	<0.4	4.2	26	<2	10.5	0.9	137	46	5.1
167	NS071055	<2	14	470	1.2	<0.4	2.0	132	<2	3.7	<0.4	408	12	4.5
168	NS071056	<2	<2	289	<0.4	2.3	6.5	259	<2	152.2	15.0	147	72	6.0
169	NS071057	<2	19	278	<0.4	<0.4	3.0	176	<2	5.9	0.6	338	28	4.5
170	PE071001	<2	<2	109	0.6	<0.4	3.7	48	<2	1.9	<0.4	<40	12	6.5

PH Layer  
<2mm fraction  
Water Leach

North American Soil Geochemical Landscapes Project  
Soil Geochemistry Data

Variable		Ag	Al	As	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Cl	Co
Unit		ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Min. Detection Limit		0.4	0.2	8	40	10	0.4	2	2	2	1	0.8	8	4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS
171	PE071002	<0.4	47.6	30	223	145	0.6	<2	<2	38	1	4.8	64	19
172	PE071003	<0.4	36.3	45	152	250	0.8	<2	<2	33	2	4.8	73	29
173	PE071004	<0.4	12.1	22	151	62	<0.4	<2	<2	14	<1	3.1	29	5
174	PE071005	<0.4	9.2	26	141	74	<0.4	<2	<2	8	1	3.2	45	5
175	PE071006	<0.4	43.3	58	575	859	2.7	<2	2	109	10	59.9	286	36
176	PE071007	<0.4	7.2	28	131	72	<0.4	<2	<2	138	<1	8.0	22	<4
177	PE071008	<0.4	52.3	37	192	312	1.7	<2	<2	94	2	16.7	33	44
178	PE071009	<0.4	42.6	91	465	724	2.3	<2	<2	110	8	66.5	158	37

PH Layer  
<2mm fraction  
Water Leach

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Variable		Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		8	1	8	0.4	0.4	0.4	0.4	1	0.4	2	0.8	0.4	1
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
171	PE071002	35	<1	107	0.6	<0.4	<0.4	40.0	8	0.6	<2	1.1	<0.4	<1
172	PE071003	37	<1	49	0.7	<0.4	<0.4	42.1	7	0.7	<2	1.0	<0.4	<1
173	PE071004	19	<1	37	<0.4	<0.4	<0.4	14.1	4	<0.4	<2	<0.8	<0.4	<1
174	PE071005	12	<1	39	<0.4	<0.4	<0.4	6.9	2	<0.4	<2	<0.8	<0.4	<1
175	PE071006	47	<1	113	4.3	1.6	1.3	26.5	7	5.4	<2	1.5	0.7	<1
176	PE071007	<8	<1	67	0.8	<0.4	<0.4	5.1	2	1.0	<2	<0.8	<0.4	<1
177	PE071008	32	<1	62	1.4	0.7	0.5	22.1	5	1.8	<2	1.6	<0.4	<1
178	PE071009	48	<1	173	6.4	2.4	1.8	26.1	7	8.9	<2	1.2	1.1	<1



PH Layer  
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Variable		K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
Unit		ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb
Min. Detection Limit		4	0.8	2	0.4	0.4	8	4	4	1	0.4	16	4	0.8
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS
171	PE071002	174	2.3	27	<0.4	28.0	14748	<4	47	2	2.6	48	34	48.2
172	PE071003	134	2.7	64	<0.4	24.4	32913	<4	49	2	2.6	29	56	71.1
173	PE071004	83	1.5	25	<0.4	10.8	5332	4	27	1	1.3	<16	75	46.8
174	PE071005	110	1.9	19	<0.4	6.5	789	8	32	<1	1.5	21	82	106.8
175	PE071006	380	20.1	62	<0.4	77.4	20522	8	166	3	20.2	54	196	182.1
176	PE071007	59	2.8	<2	<0.4	14.1	597	9	17	<1	4.3	18	13	7.2
177	PE071008	60	5.2	9	<0.4	24.6	26452	<4	29	<1	7.1	36	17	19.5
178	PE071009	291	30.9	60	<0.4	56.5	16005	12	174	3	27.9	83	169	291.7

PH Layer  
<2mm fraction  
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Variable		Pr	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit		ppb	ppb	ppb	ppm	ppb	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Min. Detection Limit		0.4	4	0.4	4	1	0.08	80	2	0.4	1	40	0.8	0.4
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
Instrumentation		ICP-MS	ICP-MS	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-ES	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
171	PE071002	0.6	65	<0.4	41	2	<0.08	<80	17	0.6	<1	217	<0.8	<0.4
172	PE071003	0.6	70	<0.4	37	2	<0.08	<80	23	0.5	2	306	<0.8	<0.4
173	PE071004	<0.4	51	<0.4	32	<1	<0.08	<80	12	<0.4	<1	82	<0.8	<0.4
174	PE071005	<0.4	163	<0.4	46	2	<0.08	<80	7	<0.4	1	61	<0.8	<0.4
175	PE071006	5.0	174	<0.4	105	4	<0.08	<80	21	4.7	3	494	<0.8	0.8
176	PE071007	0.9	44	<0.4	12	<1	<0.08	<80	14	0.9	<1	174	<0.8	<0.4
177	PE071008	1.7	150	<0.4	24	<1	<0.08	<80	23	1.8	<1	537	<0.8	<0.4
178	PE071009	7.0	195	<0.4	82	13	<0.08	<80	22	7.0	5	572	<0.8	1.3

PH Layer  
<2mm fraction  
Water Leach

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Variable		Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	pH
Unit		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Min. Detection Limit		2	2	40	0.4	0.4	0.4	8	2	0.8	0.4	40	4	
Sample Preparation		not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled	not milled
Dissolution		Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach	Water Leach
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	meter
171	PE071002	<2	18	304	0.4	<0.4	2.1	101	<2	2.8	<0.4	356	22	4.8
172	PE071003	<2	12	237	0.8	<0.4	1.5	78	<2	2.9	<0.4	342	23	4.5
173	PE071004	<2	5	113	<0.4	<0.4	0.9	71	<2	1.1	<0.4	70	8	4.5
174	PE071005	<2	4	67	0.9	<0.4	1.0	62	3	1.3	<0.4	192	7	4.5
175	PE071006	<2	43	251	1.4	<0.4	2.6	115	7	20.3	1.1	1528	29	4.3
176	PE071007	<2	<2	73	<0.4	<0.4	3.9	70	<2	3.7	<0.4	<40	8	6.5
177	PE071008	<2	17	224	0.8	<0.4	2.8	76	<2	6.9	0.6	111	33	5.6
178	PE071009	<2	32	244	2.0	<0.4	1.7	155	10	33.5	1.4	1865	27	4.4