

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemical Landscapes Project  
Sumamry Statistics - Soil Geochemistry Data

Variable Unit	Ag ppb	Al %	As ppm	Au ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe %	Ga ppm
Min. Detection Limit	20	0.02	0.2	0.1	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
Sample Preparation	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	176	0	26	0	2	0	0	0	0	0	0	0	0	0	0	0
Arithmetic Mean	270	6.65	12.0	<0.1	296	1	0.26	0.25	0.22	49.67	10.4	63	4.3	14.35	2.3	1.3	0.7	3.89	16.00
Median	259	6.55	8.6	<0.1	284	1	0.21	0.15	0.20	49.39	8.9	50	3.7	13.02	2.2	1.3	0.7	3.76	15.45
Variance	11781	1.55	476.3	0.0	8123	0	0.07	0.07	0.01	164.56	45.9	2571	5.5	54.62	0.3	0.1	0.0	2.00	14.38
Standard Deviation	109	1.25	21.8	0.0	90	1	0.26	0.27	0.10	12.83	6.8	51	2.3	7.39	0.6	0.4	0.2	1.41	3.79
Skewness	2	0.00	11.3	-	1	1	7.43	3.27	1.33	0.38	3.0	5	4.6	2.48	0.8	0.8	0.3	0.39	1.07
Kurtosis	9	-0.06	140.6	-	2	2	68.23	15.86	2.74	1.23	14.3	39	34.5	12.17	1.2	2.7	0.7	-0.08	1.90
Percentiles																			
Minimum Value	91	3.01	1.4	<0.1	85	<1	0.07	<0.02	0.06	13.99	1.2	10	0.6	3.58	1.1	0.5	0.2	0.52	9.16
5th Percentile	129	4.58	3.2	<0.1	193	<1	0.12	0.05	0.10	29.00	3.2	20	2.1	5.79	1.4	0.7	0.5	1.91	10.74
10th Percentile	152	4.96	4.9	<0.1	203	<1	0.14	0.06	0.12	33.40	4.4	27	2.6	7.32	1.6	0.9	0.5	2.19	11.85
15th Percentile	176	5.36	5.7	<0.1	214	1	0.15	0.07	0.13	37.68	5.7	30	2.8	8.42	1.7	0.9	0.6	2.42	12.63
25th Percentile	208	5.97	6.9	<0.1	241	1	0.17	0.09	0.15	42.39	6.6	35	3.2	9.71	1.9	1.1	0.6	2.94	13.63
35th Percentile	231	6.26	7.4	<0.1	258	1	0.19	0.11	0.17	45.70	7.6	39	3.4	10.84	2.0	1.2	0.7	3.27	14.11
50th Percentile	259	6.55	8.6	<0.1	284	1	0.21	0.15	0.20	49.39	8.9	50	3.7	13.02	2.2	1.3	0.7	3.76	15.45
65th Percentile	291	7.06	10.0	<0.1	310	2	0.24	0.23	0.24	54.03	11.0	61	4.4	15.05	2.4	1.4	0.8	4.26	16.84
70th Percentile	302	7.26	10.6	<0.1	319	2	0.26	0.25	0.26	55.77	11.5	70	4.6	16.05	2.4	1.4	0.8	4.46	17.11
75th Percentile	310	7.42	11.4	<0.1	328	2	0.27	0.30	0.27	57.96	12.3	76	4.8	17.19	2.5	1.4	0.8	4.76	17.94
80th Percentile	324	7.72	12.8	<0.1	349	2	0.29	0.36	0.28	59.46	13.6	87	5.0	18.57	2.7	1.5	0.8	5.28	18.53
90th Percentile	374	8.24	18.0	<0.1	416	2	0.35	0.57	0.34	63.49	16.9	119	6.1	22.57	3.0	1.7	0.9	5.74	21.03
95th Percentile	420	8.72	28.0	<0.1	482	2	0.46	0.73	0.42	71.16	21.2	132	7.4	27.01	3.4	1.8	1.1	6.41	23.19
98th Percentile	592	9.42	35.3	<0.1	536	3	0.82	0.97	0.49	79.80	28.3	178	9.9	30.49	3.7	2.0	1.2	6.99	25.47
99th Percentile	666	9.43	43.6	<0.1	597	3	1.34	1.19	0.51	90.00	33.8	193	11.8	35.67	4.0	2.2	1.2	7.50	26.83
Maximum Value	899	9.72	284.4	<0.1	615	4	2.95	2.12	0.67	94.10	53.4	526	24.7	64.27	4.2	3.0	1.2	7.80	32.09

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

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Variable	Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit	0.1	0.02	0.1	0.02	0.1	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
Sample Preparation	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	154
Arithmetic Mean	2.8	2.98	0.4	1.50	25.0	45.6	0.2	0.63	606	0.67	0.827	10.54	21.9	26.5	0.070	19.33	5.8	82.1	<0.04
Median	2.8	3.02	0.4	1.46	25.3	42.6	0.2	0.52	465	0.51	0.790	10.16	22.0	20.6	0.056	17.69	5.8	79.5	<0.04
Variance	0.4	0.51	0.0	0.18	46.3	518.8	0.0	0.15	305505	0.47	0.082	17.36	36.3	399.8	0.002	55.09	2.4	599.4	0.00
Standard Deviation	0.6	0.72	0.1	0.43	6.8	22.8	0.1	0.39	553	0.68	0.286	4.17	6.0	20.0	0.046	7.42	1.6	24.5	0.01
Skewness	0.5	0.88	0.6	0.73	0.2	3.6	0.2	1.83	3	6.44	0.337	6.77	0.5	2.1	1.615	2.12	0.4	0.7	4.21
Kurtosis	0.8	6.34	1.5	0.97	1.1	26.8	1.1	4.21	11	57.39	0.058	70.43	1.6	5.3	3.837	8.10	1.2	1.8	21.95
Percentiles																			
Minimum Value	1.5	1.13	0.2	0.36	6.8	10.8	<0.1	0.11	101	0.17	0.182	4.35	7.4	2.8	0.010	5.59	1.7	14.2	<0.04
5th Percentile	1.8	1.79	0.3	0.98	13.7	18.4	0.1	0.21	198	0.25	0.382	6.43	12.4	7.1	0.020	11.02	3.2	50.9	<0.04
10th Percentile	2.1	2.08	0.3	1.05	16.4	22.4	0.2	0.28	228	0.28	0.467	7.50	14.9	8.6	0.025	12.27	3.9	57.4	<0.04
15th Percentile	2.2	2.23	0.3	1.10	18.4	27.9	0.2	0.32	243	0.32	0.546	7.94	16.1	11.2	0.028	13.19	4.3	60.4	<0.04
25th Percentile	2.4	2.58	0.4	1.18	20.9	33.6	0.2	0.38	313	0.37	0.618	8.34	17.9	15.1	0.035	14.86	4.8	66.0	<0.04
35th Percentile	2.6	2.82	0.4	1.26	22.7	37.1	0.2	0.43	367	0.42	0.716	9.00	19.7	16.9	0.044	16.13	5.2	72.5	<0.04
50th Percentile	2.8	3.02	0.4	1.46	25.3	42.6	0.2	0.52	465	0.51	0.790	10.16	22.0	20.6	0.056	17.69	5.8	79.5	<0.04
65th Percentile	3.0	3.23	0.5	1.60	27.0	48.9	0.2	0.65	554	0.60	0.927	11.15	23.9	26.1	0.073	19.66	6.2	88.2	<0.04
70th Percentile	3.0	3.34	0.5	1.64	28.0	50.3	0.3	0.71	613	0.63	0.978	11.47	24.6	28.2	0.083	20.60	6.5	90.5	<0.04
75th Percentile	3.1	3.39	0.5	1.72	29.0	53.0	0.3	0.76	663	0.67	1.012	11.91	25.2	32.0	0.094	21.53	6.7	97.5	<0.04
80th Percentile	3.2	3.47	0.5	1.82	30.5	56.7	0.3	0.86	698	0.79	1.059	12.29	26.1	34.6	0.104	22.76	6.9	100.5	<0.04
90th Percentile	3.6	3.74	0.6	2.09	32.3	71.8	0.3	1.08	1110	1.22	1.203	13.97	28.7	53.7	0.128	28.33	7.4	109.4	0.04
95th Percentile	4.0	3.96	0.6	2.24	33.9	77.7	0.3	1.42	1639	1.58	1.347	14.90	30.8	66.7	0.166	34.50	8.1	125.2	0.05
98th Percentile	4.4	4.18	0.7	2.51	42.7	89.7	0.4	1.89	2751	1.92	1.449	15.55	36.2	91.1	0.186	36.88	9.6	143.9	0.07
99th Percentile	4.6	4.33	0.8	2.74	44.9	101.5	0.4	2.14	3042	2.75	1.518	16.21	41.7	102.6	0.197	40.70	10.6	161.3	0.08
Maximum Value	4.7	7.25	0.9	3.03	46.3	235.4	0.5	2.26	3462	7.44	1.758	54.48	44.8	121.8	0.308	64.52	11.1	169.9	0.12

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

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Variable	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit	0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
Arithmetic Mean	0.62	8.1	3.5	2.4	69	0.6	0.4	8.1	0.375	0.2	2.1	83	1.0	11.5	1.5	74.3	95.0
Median	0.53	7.6	3.5	2.1	60	0.6	0.4	7.8	0.365	0.2	2.0	79	0.9	11.4	1.4	69.4	96.8
Variance	0.36	8.6	0.8	2.8	927	0.1	0.0	4.2	0.010	0.0	0.5	907	0.3	8.4	0.2	1319.7	686.4
Standard Deviation	0.60	2.9	0.9	1.7	30	0.2	0.1	2.0	0.098	0.1	0.7	30	0.6	2.9	0.4	36.3	26.2
Skewness	7.83	0.8	0.7	8.1	2	3.0	0.7	1.4	0.456	0.3	4.2	1	3.9	0.7	0.8	1.5	1.5
Kurtosis	80.41	1.3	1.5	82.9	5	14.6	0.8	5.5	0.752	1.6	31.9	3	21.0	1.5	4.0	4.6	11.3
Percentiles																	
Minimum Value	0.12	2.1	1.6	1.1	25	0.3	0.2	2.2	0.129	<0.1	0.7	19	0.3	5.4	0.5	12.6	35.6
5th Percentile	0.21	4.2	2.3	1.4	38	0.4	0.3	5.5	0.221	0.1	1.3	40	0.5	6.8	0.8	29.9	54.1
10th Percentile	0.30	4.7	2.5	1.6	42	0.4	0.3	6.1	0.257	0.1	1.6	49	0.6	8.0	1.0	37.2	62.7
15th Percentile	0.34	5.2	2.6	1.7	43	0.4	0.3	6.5	0.286	0.2	1.7	53	0.6	8.9	1.1	41.9	67.6
25th Percentile	0.41	6.1	3.0	1.8	48	0.5	0.3	7.0	0.318	0.2	1.8	64	0.7	9.6	1.3	48.0	80.4
35th Percentile	0.46	6.8	3.1	1.9	53	0.5	0.4	7.3	0.335	0.2	1.9	71	0.8	10.3	1.4	57.1	89.6
50th Percentile	0.53	7.6	3.5	2.1	60	0.6	0.4	7.8	0.365	0.2	2.0	79	0.9	11.4	1.4	69.4	96.8
65th Percentile	0.58	9.1	3.8	2.3	70	0.6	0.4	8.2	0.408	0.2	2.1	89	1.1	12.1	1.6	80.7	102.9
70th Percentile	0.62	9.4	3.9	2.4	74	0.6	0.4	8.4	0.414	0.2	2.2	95	1.1	12.5	1.6	86.4	105.3
75th Percentile	0.65	9.7	4.0	2.5	81	0.7	0.4	8.7	0.425	0.2	2.3	99	1.2	12.8	1.7	91.1	108.9
80th Percentile	0.72	10.2	4.1	2.7	87	0.7	0.5	9.3	0.440	0.3	2.5	102	1.2	13.4	1.7	96.7	113.0
90th Percentile	0.93	12.5	4.6	3.2	108	0.8	0.5	10.3	0.492	0.3	2.8	123	1.5	15.3	1.9	118.7	122.9
95th Percentile	1.27	13.5	5.0	3.8	128	0.9	0.6	11.8	0.555	0.3	3.2	139	1.8	16.2	2.0	139.9	129.1
98th Percentile	2.04	14.3	6.0	5.8	156	1.2	0.6	13.5	0.623	0.3	3.6	150	2.6	18.1	2.3	156.9	137.4
99th Percentile	2.27	14.5	6.6	8.0	167	1.5	0.6	14.0	0.628	0.4	4.2	156	3.9	21.0	2.5	182.8	140.5
Maximum Value	7.15	21.0	6.7	20.7	224	2.1	0.7	19.2	0.701	0.5	8.5	231	5.0	22.3	3.5	247.2	273.9

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

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Soil Geochemistry Data

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
1	NB071001	216	6.38	14.8	<0.1	195	1	0.21	0.21	0.13	42.45	5.7	49	3.6	10.15	1.9	1.1	0.6	3.95	13.72
2	NB071002	204	4.97	5.2	<0.1	241	1	0.19	0.29	0.10	44.78	6.1	39	3.7	12.62	2.2	1.2	0.8	2.01	11.68
3	NB071003	302	6.34	9.6	<0.1	206	1	0.21	0.32	0.32	46.59	12.1	50	2.5	13.79	3.4	1.7	0.8	4.34	15.09
4	NB071004	241	6.66	3.2	<0.1	374	2	0.42	0.82	0.18	34.46	4.1	19	6.3	5.51	2.4	1.3	0.7	1.61	15.90
5	NB071005	234	7.89	11.4	<0.1	309	2	0.44	0.39	0.16	38.58	10.2	58	7.1	8.84	1.4	0.8	0.5	4.28	17.94
6	NB071007	334	8.86	12.8	<0.1	615	4	0.35	0.16	0.17	79.78	11.1	60	24.7	30.78	2.9	1.8	1.2	3.74	25.15
7	NB071009	224	6.52	9.5	<0.1	240	1	0.21	0.13	0.15	50.53	11.3	56	4.7	16.08	2.2	1.2	0.7	4.22	14.72
8	NB071010	313	7.25	22.9	<0.1	295	<1	0.27	0.16	0.25	47.23	11.7	87	4.8	17.30	2.1	1.2	0.7	5.53	17.30
9	NB071011	269	4.61	10.5	<0.1	203	<1	0.24	0.18	0.22	52.95	2.1	33	3.6	5.77	1.8	1.2	0.7	1.42	14.10
10	NB071012	263	5.91	10.2	<0.1	274	2	0.19	0.41	0.14	56.33	4.6	51	3.7	7.78	1.5	0.8	0.8	2.30	14.00
11	NB071013	261	6.54	9.7	<0.1	193	1	0.21	0.10	0.26	42.49	6.3	49	2.9	10.24	1.7	1.1	0.7	3.46	11.83
12	NB071014	196	7.48	8.1	<0.1	205	2	0.26	0.11	0.22	42.58	6.3	43	3.1	8.09	1.8	1.1	0.6	3.52	12.69
13	NB071015	212	4.53	1.4	<0.1	209	<1	0.12	0.19	0.14	49.97	1.2	21	2.3	3.58	1.5	0.8	0.6	0.52	14.34
14	NB071016	426	7.25	8.0	<0.1	300	1	0.21	0.42	0.24	49.57	8.3	54	3.4	8.57	1.8	0.8	0.8	3.96	14.54
15	NB071017	339	6.56	16.1	<0.1	259	1	0.20	0.15	0.18	65.75	8.0	70	3.5	17.82	1.9	1.2	0.9	3.96	16.49
16	NB071018	271	7.41	6.9	<0.1	478	2	0.23	0.25	0.13	60.63	18.9	75	5.5	29.84	3.1	1.7	1.0	5.23	20.11
17	NB071019	243	6.00	6.5	<0.1	285	1	0.27	0.10	0.13	53.94	9.3	58	4.5	26.15	3.0	1.7	0.9	4.83	17.35
18	NB071020	243	5.82	10.7	<0.1	260	<1	0.23	0.14	0.19	52.47	7.2	39	4.0	8.61	2.3	1.4	0.8	3.99	15.47
19	NB071021	263	4.60	11.2	<0.1	173	2	0.26	0.16	0.29	44.02	4.6	26	4.6	11.91	2.0	1.4	0.5	2.69	12.94
20	NB071022	309	6.69	6.9	<0.1	138	1	0.33	0.66	0.36	32.53	5.8	28	1.9	15.07	2.3	1.3	0.7	3.41	13.06
21	NB071023	328	6.67	15.1	<0.1	288	2	0.27	0.40	0.26	54.06	8.3	47	3.9	13.24	2.5	1.1	0.8	2.97	13.20
22	NB071024	291	6.38	14.5	<0.1	306	1	0.22	0.23	0.22	64.21	7.6	63	3.2	12.23	2.2	1.0	0.8	4.16	15.97
23	NB071025	371	5.52	38.5	<0.1	246	1	0.53	0.39	0.19	46.61	4.6	37	4.4	5.88	1.8	1.0	0.5	6.65	15.89
24	NB071027	230	6.89	10.7	<0.1	292	2	0.18	0.23	0.14	60.87	15.4	95	3.7	20.14	2.3	1.3	0.8	4.39	16.68
25	NB071028	263	7.07	13.9	<0.1	329	1	0.16	0.23	0.21	61.68	15.9	87	4.9	16.75	2.5	1.4	0.8	4.43	15.83
26	NB071029	244	7.04	11.7	<0.1	282	2	0.17	0.24	0.23	60.43	16.3	103	4.1	21.42	2.0	1.1	0.7	4.34	15.35
27	NB071030	268	6.59	6.2	<0.1	334	1	0.19	0.20	0.24	56.64	9.6	86	3.8	11.44	2.3	1.2	0.8	2.98	16.54
28	NB071031	293	7.01	49.1	<0.1	257	1	0.21	0.15	0.21	46.72	11.5	76	3.3	14.63	2.9	1.0	0.6	5.48	14.04
29	NB071032	251	7.73	5.7	<0.1	315	2	0.32	0.48	0.18	57.96	7.2	34	4.3	10.67	2.1	0.9	0.9	2.85	17.95
30	NB071033	198	5.25	8.8	<0.1	188	<1	0.18	0.13	0.11	45.79	9.7	35	3.2	16.02	2.7	1.6	0.7	2.70	13.69
31	NB071034	245	6.72	7.4	<0.1	230	1	0.22	0.08	0.20	48.76	6.2	37	3.4	8.87	2.2	1.6	0.8	3.78	16.88
32	NB071035	204	5.35	8.6	<0.1	203	1	0.14	0.09	0.21	40.75	5.9	30	2.0	6.81	1.8	1.1	0.6	3.01	10.30
33	NB071036	301	6.22	14.4	<0.1	328	1	0.21	0.19	0.26	45.97	9.5	47	5.2	17.33	2.3	1.5	0.7	3.01	14.65
34	NB071037	305	7.89	5.3	<0.1	314	2	0.16	0.30	0.31	75.50	3.3	70	7.6	5.95	4.0	2.3	1.1	0.96	23.70
35	NB071038	310	5.54	12.9	<0.1	242	1	0.17	0.12	0.23	59.07	8.8	51	5.0	12.66	2.8	1.7	0.8	2.96	14.00
36	NB071039	231	4.65	7.2	<0.1	272	<1	0.17	0.12	0.17	54.59	7.2	34	3.6	10.91	2.3	1.7	0.7	2.70	11.78
37	NB071040	230	8.55	3.1	<0.1	191	3	0.42	0.57	0.30	37.98	8.9	56	3.8	9.09	2.4	1.2	0.6	3.44	15.90
38	NB071041	219	6.10	10.1	<0.1	285	1	0.21	0.63	0.20	54.10	10.7	46	3.4	15.56	4.1	1.9	1.1	3.46	13.87
39	NB071042	152	7.68	2.1	<0.1	252	<1	0.15	0.72	0.30	32.94	6.4	40	1.7	20.20	2.8	1.9	0.5	3.13	11.90
40	NB071043	205	6.80	8.3	<0.1	395	1	0.23	0.57	0.16	42.57	11.7	44	4.8	14.60	2.3	1.4	0.6	4.22	17.86
41	NB071044	637	6.22	5.0	<0.1	262	<1	0.27	1.44	0.41	29.81	6.6	41	2.5	13.46	2.4	1.6	0.8	4.46	18.30
42	NB071045	490	8.25	2.1	<0.1	155	2	0.47	0.30	0.30	38.96	3.2	32	3.6	10.33	1.5	0.6	0.6	4.06	20.42
43	NB071046	317	5.15	7.4	<0.1	249	1	0.15	0.09	0.23	43.02	8.5	32	3.5	14.23	1.9	1.1	0.6	2.37	13.29
44	NB071047	259	4.67	7.4	<0.1	214	<1	0.17	0.09	0.23	43.45	6.8	30	3.1	11.21	1.9	1.2	0.6	2.43	12.00

B-horizon  
<2 mm fraction  
4-acid dissolution

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
1	NB071001	2.2	2.91	0.4	1.15	21.7	46.8	0.2	0.43	236	0.93	0.807	10.33	19.5	18.5	0.075	17.81	4.9	73.1	<0.04
2	NB071002	2.4	3.11	0.4	1.30	23.6	23.5	0.2	0.46	281	0.32	0.732	11.87	22.4	16.4	0.035	12.33	5.5	88.7	<0.04
3	NB071003	3.1	3.34	0.6	0.88	23.3	44.3	0.3	0.43	464	0.35	0.407	13.70	20.7	26.7	0.106	13.46	5.4	55.4	0.04
4	NB071004	2.8	3.00	0.5	2.20	17.1	26.4	0.2	0.36	251	0.41	1.758	13.96	16.6	9.6	0.026	21.06	4.2	105.7	<0.04
5	NB071005	1.8	2.31	0.3	1.97	20.6	50.5	0.2	0.69	395	0.76	1.014	10.10	18.1	25.4	0.044	22.71	4.6	108.5	<0.04
6	NB071007	4.1	4.14	0.6	3.03	40.8	73.3	0.3	0.33	248	0.86	0.838	13.38	36.6	27.9	0.045	21.21	9.5	169.9	<0.04
7	NB071009	3.0	3.07	0.4	1.25	27.0	45.9	0.2	0.52	484	0.47	0.500	9.81	24.5	25.6	0.048	19.60	6.1	71.6	<0.04
8	NB071010	3.1	2.98	0.4	1.32	23.9	55.6	0.2	0.63	706	1.35	0.714	9.03	21.8	32.7	0.096	19.80	5.4	75.3	<0.04
9	NB071011	2.9	3.95	0.4	1.15	28.1	14.8	0.2	0.20	188	0.36	0.742	14.50	23.2	4.6	0.020	12.72	6.5	69.7	<0.04
10	NB071012	2.9	2.58	0.3	1.62	30.1	34.9	0.1	0.40	208	0.30	1.355	9.16	25.8	15.1	0.038	18.92	6.9	82.2	<0.04
11	NB071013	2.4	2.70	0.4	1.13	22.1	41.4	0.2	0.37	377	0.54	0.607	8.49	19.0	20.9	0.083	16.77	5.2	62.2	<0.04
12	NB071014	2.4	2.63	0.3	1.02	21.6	43.0	0.2	0.30	303	0.79	0.538	7.96	19.7	21.9	0.080	20.47	5.1	61.8	<0.04
13	NB071015	2.7	3.73	0.3	1.23	25.5	10.8	0.2	0.19	101	0.31	1.044	12.59	21.2	4.2	0.016	10.46	6.0	57.5	<0.04
14	NB071016	2.6	2.29	0.3	1.16	24.6	38.3	0.1	0.56	528	0.67	1.053	8.53	22.2	22.8	0.115	17.90	5.8	60.6	<0.04
15	NB071017	2.9	3.21	0.4	1.05	33.7	38.9	0.2	0.64	315	0.58	0.922	9.72	29.7	25.7	0.055	17.78	7.6	57.3	<0.04
16	NB071018	4.1	4.22	0.6	1.82	32.3	46.7	0.3	0.71	1197	0.36	0.405	14.66	30.6	35.1	0.036	12.06	7.5	112.3	<0.04
17	NB071019	3.2	3.77	0.6	1.52	29.0	29.4	0.3	0.32	358	0.29	0.188	13.45	26.1	19.3	0.034	15.82	6.5	89.3	<0.04
18	NB071020	2.6	3.11	0.5	1.34	28.0	28.1	0.3	0.40	553	0.44	0.608	9.95	22.9	15.3	0.063	14.58	6.0	85.9	<0.04
19	NB071021	2.7	3.23	0.4	1.27	22.7	40.4	0.2	0.22	301	7.44	0.669	15.42	20.1	7.8	0.027	20.72	5.1	100.2	<0.04
20	NB071022	2.9	2.83	0.5	0.71	15.8	20.5	0.2	0.52	391	0.58	1.345	8.62	14.1	10.3	0.050	14.33	3.9	34.7	0.04
21	NB071023	3.4	2.47	0.4	1.42	25.8	40.8	0.2	0.57	416	0.67	1.229	8.15	24.1	26.8	0.066	19.38	6.2	72.4	<0.04
22	NB071024	3.3	3.34	0.4	1.24	31.0	45.1	0.2	0.67	372	0.48	1.197	9.34	27.0	27.8	0.061	17.51	7.1	72.3	<0.04
23	NB071025	2.7	3.55	0.4	1.56	22.8	30.9	0.2	0.28	428	1.46	1.130	14.90	19.8	8.0	0.097	32.97	5.4	80.9	<0.04
24	NB071027	2.8	2.95	0.5	1.69	25.8	43.6	0.2	1.04	602	0.53	1.007	8.02	24.5	53.6	0.051	17.29	6.1	84.9	<0.04
25	NB071028	3.0	3.47	0.5	1.47	29.4	55.9	0.3	1.09	615	0.46	1.009	9.61	25.6	63.1	0.064	16.20	6.7	83.1	<0.04
26	NB071029	2.6	3.02	0.4	1.33	27.2	49.8	0.2	1.08	625	0.40	0.977	8.10	22.2	58.7	0.088	14.15	6.0	78.7	<0.04
27	NB071030	3.0	3.28	0.5	1.64	30.3	40.1	0.2	0.83	390	0.84	1.183	10.92	25.6	32.4	0.058	12.79	6.8	103.2	<0.04
28	NB071031	2.3	2.97	0.4	1.00	23.0	86.4	0.2	0.69	554	0.54	0.762	8.35	20.6	34.2	0.096	22.57	5.4	59.0	<0.04
29	NB071032	3.0	2.61	0.3	1.54	28.7	36.9	0.2	0.36	627	0.55	1.443	13.34	25.1	18.5	0.079	35.48	6.7	80.6	<0.04
30	NB071033	2.9	3.50	0.6	1.04	23.9	28.1	0.3	0.41	257	0.49	0.379	12.92	20.1	19.0	0.010	12.50	5.3	62.9	<0.04
31	NB071034	3.0	3.07	0.5	1.11	24.6	42.8	0.2	0.31	231	0.42	0.635	10.45	22.1	14.5	0.134	21.23	5.6	78.9	<0.04
32	NB071035	2.4	2.64	0.4	1.02	20.8	38.8	0.2	0.27	233	0.77	0.746	7.98	17.9	13.8	0.058	14.43	4.6	52.5	<0.04
33	NB071036	2.5	3.83	0.5	1.73	26.0	50.3	0.2	0.72	366	0.47	0.917	12.90	20.2	22.0	0.023	19.86	5.4	94.6	<0.04
34	NB071037	4.6	3.95	0.8	1.66	44.7	28.4	0.4	0.50	104	0.64	0.343	13.54	32.3	10.6	0.034	17.55	9.3	100.5	0.12
35	NB071038	3.7	3.77	0.6	1.10	30.2	47.0	0.3	0.44	411	0.49	0.467	14.63	26.3	21.5	0.027	13.16	6.9	78.7	<0.04
36	NB071039	2.8	3.36	0.5	1.54	27.9	30.6	0.3	0.43	190	0.48	0.557	10.45	23.1	17.1	0.020	17.36	6.1	81.0	<0.04
37	NB071040	2.7	2.38	0.5	1.58	18.1	34.8	0.2	0.52	1388	0.55	1.199	12.08	16.5	18.0	0.091	28.33	4.7	100.5	0.04
38	NB071041	3.4	3.91	0.7	1.40	26.4	36.1	0.3	0.74	476	0.40	1.105	11.34	25.3	22.6	0.023	16.45	6.5	71.7	<0.04
39	NB071042	2.5	2.96	0.5	1.21	13.7	18.1	0.3	0.60	298	0.40	1.529	7.80	13.6	16.4	0.027	15.05	3.2	47.7	<0.04
40	NB071043	2.4	2.85	0.5	1.60	22.3	51.9	0.3	0.87	686	0.56	0.866	10.48	17.0	19.8	0.161	22.76	4.4	86.6	<0.04
41	NB071044	2.7	3.21	0.6	0.88	16.2	16.5	0.3	0.58	419	1.42	1.290	8.78	15.0	11.0	0.064	25.71	3.8	58.6	<0.04
42	NB071045	2.2	1.57	0.3	0.96	20.2	32.3	<0.1	0.20	296	0.39	0.649	15.61	16.8	6.5	0.183	28.33	4.3	54.6	0.08
43	NB071046	2.7	2.95	0.3	1.33	23.2	34.3	0.2	0.46	497	0.32	0.832	10.79	17.4	15.9	0.053	17.33	4.9	79.4	<0.04
44	NB071047	2.0	3.13	0.4	1.11	22.8	26.5	0.2	0.39	239	0.43	0.594	10.89	18.2	13.6	0.025	14.11	4.9	71.0	<0.04

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
1	NB071001	0.66	6.6	3.1	2.3	55	0.5	0.4	8.2	0.326	0.2	2.0	74	0.8	10.4	1.3	61.2	95.0
2	NB071002	0.58	6.8	3.5	2.1	62	0.6	0.3	6.5	0.413	0.2	1.9	63	0.9	10.9	1.4	41.3	102.0
3	NB071003	0.49	7.4	3.6	2.1	57	0.7	0.5	8.4	0.372	0.3	2.0	89	0.7	15.7	2.0	133.9	118.7
4	NB071004	0.50	4.8	3.0	3.2	145	1.3	0.4	7.6	0.338	0.2	2.2	44	0.7	12.3	1.4	28.6	98.9
5	NB071005	0.61	8.0	2.7	2.8	78	0.6	0.3	8.0	0.312	0.1	1.8	82	1.1	7.8	1.0	69.3	73.3
6	NB071007	7.15	13.4	6.1	3.9	107	0.9	0.5	12.3	0.472	0.3	3.2	121	1.5	14.5	2.2	103.4	126.6
7	NB071009	0.80	7.8	4.0	2.1	43	0.6	0.4	8.0	0.350	0.2	1.9	83	1.0	11.4	1.5	78.4	103.2
8	NB071010	2.24	9.4	3.5	2.3	49	0.6	0.4	8.2	0.370	0.2	2.2	103	1.0	10.5	1.5	87.7	96.5
9	NB071011	0.75	5.4	3.5	2.4	54	0.9	0.3	8.1	0.499	0.2	2.1	79	1.4	9.8	1.5	13.6	132.0
10	NB071012	0.50	5.6	4.0	1.7	74	0.6	0.3	9.7	0.334	0.1	1.7	59	1.2	7.9	1.0	37.7	82.6
11	NB071013	0.65	5.8	3.2	1.8	37	0.5	0.3	8.4	0.299	0.2	1.8	64	1.2	9.5	1.1	74.6	85.8
12	NB071014	0.53	5.6	3.1	2.1	37	0.5	0.3	8.9	0.244	0.2	1.9	65	1.0	9.3	1.3	80.4	80.5
13	NB071015	0.41	4.9	3.3	2.0	61	0.8	0.3	6.2	0.462	0.2	1.8	51	1.1	8.6	1.2	12.6	114.3
14	NB071016	0.38	7.1	3.4	1.7	72	0.5	0.3	7.6	0.333	0.1	1.6	79	1.2	8.3	1.0	90.0	67.1
15	NB071017	0.58	9.1	4.6	2.0	54	0.5	0.4	7.9	0.404	0.2	1.8	88	0.8	9.9	1.4	118.0	101.5
16	NB071018	0.58	12.3	5.1	2.6	81	0.7	0.6	9.3	0.484	0.3	2.7	116	0.8	16.3	2.3	70.9	136.3
17	NB071019	0.78	9.7	4.4	2.7	45	0.7	0.5	7.8	0.414	0.3	2.1	113	0.7	15.7	2.1	42.6	121.4
18	NB071020	0.59	7.0	3.5	2.2	41	0.6	0.4	7.4	0.324	0.3	2.1	82	1.0	12.4	1.8	40.4	98.9
19	NB071021	0.80	4.7	3.1	2.8	43	1.0	0.4	9.4	0.335	0.2	3.4	58	1.6	11.4	1.5	44.4	100.3
20	NB071022	0.63	7.2	2.7	1.7	87	0.5	0.4	6.5	0.364	0.2	1.6	80	1.0	11.9	1.4	41.8	95.1
21	NB071023	0.66	7.5	4.0	2.0	69	0.5	0.4	8.3	0.309	0.2	1.6	66	3.6	10.8	1.4	62.5	78.0
22	NB071024	0.91	8.4	4.5	2.1	59	0.5	0.4	8.2	0.380	0.2	1.9	84	1.2	9.1	1.2	76.3	93.0
23	NB071025	0.66	4.4	3.1	3.0	83	1.1	0.3	10.8	0.337	0.2	2.2	61	1.7	9.3	1.3	42.3	95.9
24	NB071027	0.64	9.4	3.9	1.8	72	0.4	0.4	7.3	0.338	0.2	1.9	97	0.5	11.7	1.5	76.0	101.1
25	NB071028	1.26	9.4	3.8	1.9	72	0.5	0.4	8.0	0.409	0.2	2.1	99	0.9	12.1	1.6	106.6	112.3
26	NB071029	0.57	9.2	3.5	1.6	67	0.4	0.4	7.6	0.390	0.2	1.8	100	0.6	10.3	1.3	93.0	95.8
27	NB071030	0.48	9.0	3.8	2.0	70	0.6	0.4	7.5	0.501	0.2	2.1	99	1.0	11.5	1.5	74.5	108.8
28	NB071031	1.83	8.3	3.0	1.9	50	0.4	0.4	7.4	0.352	0.2	1.9	90	0.9	9.5	1.3	141.5	97.8
29	NB071032	0.45	6.1	4.2	3.5	87	0.7	0.4	10.2	0.386	0.1	1.9	66	2.2	9.1	1.0	63.7	82.7
30	NB071033	0.46	6.8	3.6	2.0	42	0.7	0.4	6.0	0.394	0.3	1.8	87	0.6	15.8	1.9	47.1	125.0
31	NB071034	0.52	6.6	3.1	2.5	43	0.7	0.4	8.6	0.339	0.2	2.1	80	0.9	13.5	1.7	77.4	100.6
32	NB071035	0.43	4.8	2.8	1.5	41	0.5	0.3	6.3	0.254	0.2	1.5	53	0.7	10.5	1.4	68.0	80.5
33	NB071036	1.47	8.5	3.0	2.4	68	0.7	0.4	8.3	0.452	0.2	2.2	84	1.3	12.5	1.6	56.2	124.8
34	NB071037	0.52	13.6	5.3	3.1	67	0.8	0.7	12.6	0.477	0.3	3.3	83	1.3	22.3	2.9	28.7	146.9
35	NB071038	0.81	7.1	4.4	2.4	49	0.7	0.5	8.3	0.365	0.3	2.2	68	0.9	15.5	1.8	84.1	126.1
36	NB071039	0.74	5.7	3.4	1.8	55	0.6	0.4	7.1	0.349	0.2	2.0	60	0.8	12.2	1.7	48.1	106.7
37	NB071040	0.24	7.0	3.0	5.0	68	1.2	0.4	13.9	0.364	0.2	3.3	77	1.2	11.8	1.3	72.0	65.7
38	NB071041	1.13	9.7	4.1	2.2	93	0.7	0.6	7.3	0.488	0.3	2.0	88	1.0	16.2	2.1	44.3	123.6
39	NB071042	0.19	7.5	2.4	1.3	57	0.4	0.4	9.3	0.221	0.3	1.9	49	0.5	14.6	1.9	52.4	80.4
40	NB071043	0.57	8.3	2.5	2.1	117	0.6	0.3	7.2	0.407	0.3	2.2	100	1.2	12.6	1.8	66.4	91.3
41	NB071044	0.41	10.0	2.9	1.8	164	0.5	0.4	5.8	0.574	0.3	1.8	122	0.9	14.9	1.8	57.7	110.1
42	NB071045	0.19	3.8	2.7	4.5	49	1.1	0.4	9.4	0.252	<0.1	2.3	48	0.4	6.7	0.6	46.2	46.2
43	NB071046	0.50	6.6	2.5	2.2	54	0.6	0.3	6.7	0.412	0.2	2.0	65	1.1	9.6	1.3	56.0	93.5
44	NB071047	0.51	5.3	2.7	1.8	51	0.6	0.3	6.2	0.384	0.2	1.7	64	1.0	11.2	1.4	38.5	102.4

B-horizon  
<2 mm fraction  
4-acid dissolution

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
45	NB071048	193	5.44	8.1	<0.1	203	1	0.21	0.18	0.13	45.67	9.9	39	3.6	17.12	2.4	1.4	0.6	3.30	14.95
46	NB071049	243	5.98	10.5	<0.1	291	1	0.22	0.10	0.50	52.14	7.8	41	4.7	11.88	3.3	1.9	0.9	4.12	16.00
47	NB071050	342	6.52	10.0	<0.1	216	1	0.15	0.16	0.27	49.01	11.4	77	5.5	14.33	1.9	1.0	0.7	3.73	12.62
48	NB071051	263	7.23	9.1	<0.1	302	1	0.21	0.11	0.16	64.30	11.0	70	13.5	12.91	2.2	1.4	0.8	3.17	18.45
49	NB071052	227	6.33	6.8	<0.1	275	1	0.13	0.13	0.11	57.65	10.0	75	2.9	11.81	2.5	1.3	0.9	3.58	14.83
50	NB071054	302	6.50	17.5	<0.1	322	1	0.30	0.19	0.27	64.93	10.3	61	7.1	19.86	2.8	1.7	0.9	3.66	17.03
51	NB071055	156	8.44	2.8	<0.1	85	<1	0.07	2.12	0.44	13.99	28.4	526	0.6	29.22	1.9	0.9	0.6	6.66	15.32
52	NB071056	178	7.10	8.3	<0.1	204	1	0.18	0.91	0.21	39.29	12.6	190	3.0	27.40	2.5	1.5	0.8	5.42	17.22
53	NB072001	266	6.29	9.6	<0.1	235	1	0.24	0.13	0.17	43.76	8.8	45	2.6	8.61	2.1	1.4	0.6	3.93	15.06
54	NB072002	400	6.66	28.6	<0.1	452	2	0.52	0.41	0.23	50.98	10.7	50	3.3	16.39	3.4	1.8	0.8	5.08	19.29
55	NB072003	369	7.33	21.0	<0.1	273	2	0.27	0.46	0.48	56.00	20.7	98	3.3	25.88	2.6	1.7	0.8	5.38	19.00
56	NB072004	244	7.71	18.2	<0.1	272	2	0.48	1.00	0.53	50.93	16.9	90	3.3	21.58	3.8	2.0	0.9	5.85	17.94
57	NB072005	754	7.72	21.4	<0.1	226	1	0.31	0.25	0.45	51.41	9.6	92	4.4	27.06	2.7	1.8	0.7	6.29	21.20
58	NB072006	396	7.72	23.4	<0.1	258	2	0.31	0.24	0.50	50.16	12.9	60	4.3	16.48	3.0	1.9	0.6	4.43	18.95
59	NB072007	222	8.05	6.9	<0.1	494	1	0.19	0.52	0.34	71.52	23.0	130	4.1	17.21	3.6	1.8	1.1	4.65	19.17
60	NB072009	249	8.22	6.9	<0.1	286	1	0.18	0.06	0.22	52.82	16.7	135	4.3	24.30	1.7	1.2	0.5	5.35	18.84
61	NB072010	484	7.56	7.5	<0.1	310	1	0.15	0.30	0.41	48.62	15.0	94	2.4	14.39	2.1	1.4	0.6	4.50	16.77
62	NB072011	298	8.08	5.5	<0.1	197	2	0.17	0.34	0.26	43.19	14.6	60	2.2	13.87	2.5	1.5	0.6	4.46	14.00
63	NB072012	482	9.09	27.9	<0.1	349	3	0.62	0.11	0.47	53.18	3.6	39	5.7	9.23	4.2	3.0	0.5	5.72	32.09
64	NB072013	153	7.18	13.2	<0.1	546	2	0.20	0.34	0.10	58.05	3.3	18	3.3	6.20	2.3	0.9	0.9	2.66	17.10
65	NB072014	327	7.97	11.3	<0.1	368	2	0.31	0.13	0.27	63.64	17.1	119	4.7	26.41	2.7	1.7	0.9	7.07	21.78
66	NB072015	240	8.76	2.9	<0.1	263	<1	0.08	0.94	0.25	37.67	28.8	158	2.0	24.54	1.5	0.9	0.5	5.29	15.44
67	NB072016	308	8.71	6.6	<0.1	314	2	0.21	0.09	0.26	28.86	14.8	190	4.8	26.99	2.0	1.3	0.6	6.33	21.02
68	NB072017	310	6.94	9.0	<0.1	317	1	0.18	0.18	0.67	37.57	12.7	110	4.0	15.57	2.4	1.5	0.6	4.92	16.40
69	NB072018	281	8.35	9.5	<0.1	321	2	0.23	0.17	0.20	46.24	16.9	118	3.7	32.95	2.8	1.7	0.7	5.95	19.36
70	NB072019	394	7.76	9.2	<0.1	320	1	0.23	0.15	0.28	36.99	13.8	166	4.0	22.72	1.9	1.2	0.6	6.88	19.94
71	NB072020	245	8.34	6.5	<0.1	327	2	0.15	0.10	0.22	22.07	16.8	203	3.6	21.72	2.0	1.4	0.5	6.79	19.18
72	NB072021	115	3.01	7.1	<0.1	161	<1	0.11	0.06	0.08	27.55	4.2	15	1.5	5.44	1.3	1.0	0.5	1.57	9.16
73	NB072022	278	5.96	5.7	<0.1	260	1	0.22	0.05	0.17	48.53	8.1	43	4.8	9.39	2.0	1.4	0.6	3.37	15.60
74	NB072023	361	6.30	8.2	<0.1	239	1	0.19	0.08	0.25	49.25	48.8	52	3.7	13.12	2.4	1.3	0.8	3.39	14.46
75	NB072024	238	6.45	9.0	<0.1	235	2	0.24	0.17	0.26	40.80	7.3	47	2.5	8.17	2.2	1.2	0.6	3.82	14.88
76	NB072026	254	6.23	7.8	<0.1	215	<1	0.19	0.06	0.17	44.56	7.2	39	2.8	8.92	2.0	1.3	0.7	3.78	13.40
77	NB072027	302	6.20	7.1	<0.1	211	1	0.13	0.07	0.22	38.13	11.4	36	2.7	8.27	2.0	1.2	0.7	3.47	14.71
78	NB072028	285	6.41	9.0	<0.1	294	2	0.31	0.36	0.13	32.32	7.6	33	3.5	10.49	2.8	1.4	0.7	2.95	14.31
79	NB072029	186	6.27	7.2	<0.1	293	2	0.25	0.12	0.25	51.56	10.8	47	4.3	10.73	2.3	1.5	0.7	3.97	16.26
80	NB072030	152	4.57	4.4	<0.1	203	1	0.27	0.09	0.16	35.24	7.9	22	2.1	5.50	1.9	1.1	0.6	2.20	10.77
81	NB072031	143	5.38	7.9	<0.1	201	1	0.24	0.08	0.13	39.60	6.2	35	3.5	9.65	2.0	1.1	0.6	3.97	12.08
82	NB072032	235	5.91	6.5	<0.1	286	2	0.25	0.09	0.17	49.89	8.7	35	3.3	8.50	2.4	1.3	0.8	3.53	14.15
83	NB072033	236	5.97	8.5	<0.1	244	1	0.17	0.06	0.14	48.34	7.0	33	2.9	8.50	2.2	1.3	0.6	3.13	13.51
84	NB072034	402	6.27	9.9	<0.1	276	1	0.18	0.11	0.27	51.76	8.9	91	3.6	12.30	1.6	0.9	0.9	5.30	15.24
85	NB072035	364	6.90	8.5	<0.1	289	1	0.23	0.11	0.27	54.99	9.3	90	3.4	11.11	1.9	0.9	0.8	5.40	16.92
86	NB072036	225	8.18	8.4	<0.1	351	2	0.17	0.18	0.14	60.60	17.2	108	4.5	14.42	2.2	1.2	0.9	5.28	18.76
87	NB072037	373	7.13	16.7	<0.1	346	2	0.20	0.07	0.34	63.34	15.9	134	4.9	13.77	2.1	1.1	0.8	5.39	18.12
88	NB072038	324	6.93	9.5	<0.1	252	1	0.26	0.11	0.36	46.94	8.1	131	4.1	16.00	1.8	1.2	0.6	7.44	19.94

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
45	NB071048	2.7	3.40	0.5	1.12	25.2	32.9	0.3	0.51	349	0.42	0.592	11.26	22.2	19.6	0.017	18.01	5.6	73.0	<0.04
46	NB071049	4.0	3.18	0.7	1.18	26.7	36.2	0.3	0.41	300	0.45	0.436	11.06	23.7	17.6	0.056	37.08	6.3	88.2	<0.04
47	NB071050	2.5	3.40	0.4	1.05	25.5	55.0	0.2	0.71	342	0.39	0.820	9.31	22.2	39.9	0.070	13.95	5.8	58.0	<0.04
48	NB071051	2.9	3.47	0.5	1.63	31.1	51.6	0.3	0.96	386	0.35	0.911	12.12	27.4	33.7	0.033	13.92	7.0	125.1	<0.04
49	NB071052	3.0	3.19	0.5	1.43	29.1	47.1	0.3	0.94	331	0.30	1.153	7.97	27.6	40.3	0.044	11.84	6.9	73.8	<0.04
50	NB071054	3.8	3.89	0.6	1.74	31.5	49.1	0.3	0.69	308	1.15	0.652	13.98	27.6	29.9	0.044	21.64	7.3	108.3	<0.04
51	NB071055	1.8	1.76	0.4	0.36	6.8	15.7	0.1	2.18	580	0.63	0.451	5.40	7.4	65.7	0.035	5.59	1.7	14.2	0.06
52	NB071056	3.1	2.48	0.5	1.03	18.3	28.3	0.2	1.20	499	0.83	0.869	8.05	17.1	31.4	0.049	15.07	4.3	47.0	0.07
53	NB072001	2.8	3.10	0.5	1.18	21.9	35.2	0.2	0.42	614	0.51	0.686	10.18	19.1	18.3	0.123	22.45	5.1	68.5	<0.04
54	NB072002	3.9	3.59	0.7	1.98	26.5	22.2	0.3	0.90	751	1.92	1.086	14.91	25.1	21.0	0.104	36.31	6.4	108.6	<0.04
55	NB072003	3.2	3.39	0.5	1.48	27.8	46.1	0.3	1.25	672	0.98	0.975	16.27	23.1	47.1	0.110	23.10	6.5	76.3	<0.04
56	NB072004	3.8	3.70	0.7	1.48	23.2	22.5	0.3	1.07	1170	0.68	1.006	13.36	23.5	27.4	0.135	28.25	5.9	105.1	<0.04
57	NB072005	3.0	3.99	0.6	1.15	26.3	41.9	0.3	0.79	466	1.20	0.783	14.10	21.1	29.6	0.051	36.25	6.1	64.6	<0.04
58	NB072006	3.0	4.07	0.6	1.90	21.5	49.1	0.3	0.74	498	1.08	1.166	15.28	18.7	32.2	0.073	36.68	5.0	110.1	<0.04
59	NB072007	4.0	3.35	0.6	2.04	33.8	76.6	0.3	1.77	887	0.20	0.995	12.01	29.0	102.3	0.053	19.70	7.9	114.2	<0.04
60	NB072009	1.8	2.98	0.4	1.83	25.1	78.1	0.2	1.39	204	0.25	0.565	10.46	18.7	86.3	0.081	15.96	5.5	98.7	<0.04
61	NB072010	2.1	4.03	0.5	1.24	22.0	50.2	0.2	0.89	381	0.63	1.206	14.32	17.3	48.8	0.090	18.17	4.8	60.6	<0.04
62	NB072011	2.3	3.97	0.5	1.25	19.0	35.2	0.2	0.76	459	0.51	1.226	12.23	16.3	38.2	0.117	21.21	4.2	59.5	<0.04
63	NB072012	3.2	7.25	0.9	1.62	16.4	33.7	0.5	0.62	332	2.45	0.897	54.48	16.0	10.9	0.060	33.46	4.3	83.3	0.06
64	NB072013	3.1	2.84	0.4	2.66	32.6	15.9	0.2	0.23	274	0.64	1.214	16.19	23.5	9.2	0.029	21.99	6.5	100.6	<0.04
65	NB072014	3.3	3.44	0.6	2.00	31.7	55.1	0.3	1.43	547	0.31	0.653	11.51	26.4	68.3	0.189	19.81	7.1	125.7	<0.04
66	NB072015	1.9	2.15	0.3	0.63	10.6	20.9	0.1	2.13	571	0.52	0.683	6.43	10.0	95.8	0.180	8.28	2.6	18.4	0.05
67	NB072016	2.4	3.02	0.4	1.54	14.8	92.9	0.2	2.00	496	1.54	0.725	8.43	13.8	121.8	0.119	17.46	3.7	66.1	<0.04
68	NB072017	2.4	3.27	0.5	1.44	19.5	44.5	0.3	0.84	915	0.32	0.779	11.45	17.4	44.6	0.102	15.35	4.4	82.6	<0.04
69	NB072018	2.8	3.31	0.5	1.63	22.2	60.8	0.3	1.29	698	0.56	0.755	10.76	21.0	77.1	0.122	17.60	5.3	87.9	<0.04
70	NB072019	2.1	2.79	0.4	1.66	18.1	64.1	0.2	1.47	401	0.31	0.641	11.50	14.5	76.5	0.092	19.06	4.2	103.7	<0.04
71	NB072020	1.9	2.94	0.4	1.71	12.4	49.9	0.2	2.26	815	0.19	0.867	9.71	12.4	103.4	0.133	12.75	3.1	79.6	<0.04
72	NB072021	1.7	1.80	0.3	1.02	13.7	11.9	0.2	0.21	206	0.32	0.567	4.35	12.4	8.8	0.018	9.59	3.2	51.9	<0.04
73	NB072022	2.4	3.29	0.4	1.57	27.1	33.3	0.2	0.52	199	0.35	0.565	11.65	19.9	18.1	0.024	10.69	5.8	105.7	<0.04
74	NB072023	2.9	3.00	0.5	1.27	26.2	55.6	0.2	0.52	1306	0.68	0.730	10.61	21.5	22.1	0.039	18.53	5.9	95.6	<0.04
75	NB072024	2.6	2.54	0.4	1.13	21.5	29.8	0.2	0.39	385	0.53	0.619	10.01	17.9	15.6	0.084	19.57	5.0	62.6	<0.04
76	NB072026	2.4	2.58	0.4	1.08	23.9	48.1	0.2	0.39	167	0.52	0.725	7.96	21.2	19.0	0.099	13.07	5.3	61.7	<0.04
77	NB072027	2.7	2.58	0.4	1.17	19.9	41.0	0.2	0.39	475	0.49	0.830	6.99	17.0	21.4	0.127	12.96	4.6	72.9	0.04
78	NB072028	2.8	2.22	0.5	2.09	18.7	20.1	0.2	0.46	322	0.71	1.077	7.84	17.4	17.7	0.079	18.65	4.5	102.1	<0.04
79	NB072029	2.6	3.09	0.4	1.52	25.5	38.7	0.2	0.52	671	0.38	0.611	10.56	22.4	19.8	0.093	15.31	6.0	103.7	<0.04
80	NB072030	2.3	2.08	0.3	1.30	17.6	31.7	0.2	0.42	274	0.23	1.005	6.41	15.1	15.1	0.032	10.79	4.1	72.4	<0.04
81	NB072031	2.2	2.52	0.4	1.17	19.8	35.7	0.2	0.38	243	0.32	0.800	8.21	17.4	13.5	0.030	16.55	4.5	67.5	0.04
82	NB072032	3.0	2.82	0.5	1.23	25.3	40.0	0.2	0.41	295	0.30	0.720	9.84	22.7	19.8	0.122	15.71	6.0	80.5	<0.04
83	NB072033	2.5	2.84	0.4	1.39	24.3	41.3	0.2	0.40	226	0.26	0.751	9.45	21.8	20.0	0.051	17.50	5.5	80.9	<0.04
84	NB072034	3.0	2.86	0.4	1.30	27.1	48.7	0.2	0.74	241	0.60	0.737	8.22	23.7	34.0	0.110	17.32	6.4	72.8	<0.04
85	NB072035	2.8	3.26	0.4	1.22	27.7	44.3	0.2	0.76	331	0.36	0.836	7.33	26.5	34.6	0.218	15.92	6.7	70.7	<0.04
86	NB072036	3.4	3.01	0.4	2.11	31.2	64.4	0.2	1.41	523	0.42	0.984	6.52	29.6	66.2	0.100	15.62	7.3	98.0	<0.04
87	NB072037	2.8	3.74	0.4	1.43	32.3	45.3	0.3	0.85	2028	0.40	1.009	8.11	27.6	45.9	0.107	18.49	7.3	94.6	<0.04
88	NB072038	2.5	3.00	0.4	1.07	24.8	43.4	0.2	0.67	368	0.37	0.515	7.70	20.8	35.5	0.190	20.96	5.5	72.9	0.04



**B-horizon**  
**<2 mm fraction**  
**4-acid dissolution**

**North American Soil Geochemistry Landscapes Project**  
**Soil Geochemistry Data**

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
45	NB071048	0.52	7.0	3.4	2.2	52	0.6	0.4	6.7	0.364	0.2	1.9	79	0.8	13.1	1.7	52.7	106.8
46	NB071049	0.64	6.8	4.1	2.5	48	0.6	0.5	7.1	0.359	0.3	2.3	78	1.0	17.1	2.0	115.4	104.2
47	NB071050	0.97	7.6	3.1	1.6	62	0.5	0.3	7.3	0.414	0.2	1.7	82	1.1	9.7	1.3	109.3	115.6
48	NB071051	0.72	9.4	3.7	2.5	59	0.6	0.4	8.1	0.440	0.3	2.2	97	1.3	11.8	1.6	56.8	120.9
49	NB071052	0.30	8.2	4.2	1.6	62	0.4	0.4	7.1	0.299	0.2	1.9	79	0.5	12.0	1.5	64.1	103.6
50	NB071054	2.31	9.2	4.6	3.0	52	0.9	0.5	10.3	0.437	0.3	2.7	92	1.8	14.7	1.7	82.7	119.6
51	NB071055	0.15	21.0	1.7	1.3	43	0.3	0.3	2.2	0.490	0.2	0.7	231	0.3	8.8	1.1	55.9	55.2
52	NB071056	0.51	14.1	2.8	1.9	58	0.5	0.4	5.7	0.460	0.2	1.6	145	0.8	12.4	1.4	47.0	81.8
53	NB072001	0.64	6.8	3.4	2.9	48	0.6	0.4	8.2	0.330	0.2	2.1	79	1.1	11.2	1.4	78.6	98.6
54	NB072002	0.99	10.8	4.3	3.8	58	0.8	0.6	9.9	0.438	0.3	2.9	100	1.9	17.0	1.9	85.5	110.0
55	NB072003	2.26	12.7	4.0	2.8	77	0.8	0.5	8.2	0.701	0.3	2.5	145	1.4	14.4	1.7	128.5	117.1
56	NB072004	1.51	13.9	4.6	3.9	80	0.8	0.6	10.8	0.634	0.3	3.1	138	1.6	18.7	2.3	130.6	122.6
57	NB072005	1.02	10.6	3.6	4.0	73	0.7	0.4	8.6	0.626	0.3	2.8	153	1.1	15.0	1.9	88.5	138.4
58	NB072006	1.00	7.3	3.2	3.1	62	1.1	0.5	12.9	0.419	0.3	3.4	89	1.7	16.2	2.0	157.4	138.4
59	NB072007	0.41	12.7	4.6	1.9	84	0.6	0.6	9.2	0.452	0.3	2.4	105	0.9	17.5	2.0	126.3	102.1
60	NB072009	0.34	10.0	2.5	1.8	53	0.5	0.2	7.2	0.427	0.2	1.9	107	0.6	9.6	1.3	99.8	107.5
61	NB072010	0.89	8.0	2.4	1.9	115	0.8	0.4	7.4	0.626	0.2	2.0	95	0.9	11.7	1.5	139.4	132.3
62	NB072011	0.75	7.6	2.7	1.9	101	0.6	0.4	8.2	0.433	0.2	2.1	76	0.9	13.2	1.6	86.3	128.8
63	NB072012	0.97	5.5	3.2	8.3	28	1.9	0.7	19.2	0.255	0.5	3.9	55	1.8	20.7	3.5	113.3	273.9
64	NB072013	0.20	5.7	3.5	3.2	78	0.9	0.4	13.4	0.292	0.1	2.8	47	0.7	9.5	1.1	30.5	74.8
65	NB072014	0.69	13.5	4.4	2.6	46	0.6	0.5	9.7	0.476	0.3	2.4	143	1.0	13.9	1.7	95.6	113.5
66	NB072015	0.16	9.5	2.0	1.5	224	0.3	0.3	3.2	0.559	0.1	1.0	122	0.3	6.7	0.9	71.6	74.4
67	NB072016	0.67	14.4	2.3	1.9	51	0.4	0.3	6.6	0.395	0.2	2.5	136	0.7	10.1	1.5	143.0	92.1
68	NB072017	0.58	10.0	2.7	2.1	58	0.6	0.4	8.4	0.467	0.3	2.1	104	0.9	13.1	1.7	119.4	108.3
69	NB072018	0.74	12.1	3.5	2.2	60	0.6	0.4	8.2	0.447	0.3	2.2	116	0.9	13.2	1.8	151.6	109.6
70	NB072019	0.43	11.3	2.3	2.0	55	0.7	0.3	8.2	0.527	0.2	2.1	132	0.9	10.6	1.4	84.1	93.9
71	NB072020	0.93	14.9	2.1	1.6	69	0.5	0.3	6.6	0.427	0.2	1.8	128	0.7	10.5	1.5	96.7	99.5
72	NB072021	0.33	2.7	2.4	1.1	34	0.3	0.2	4.1	0.129	0.2	1.0	37	0.4	8.9	1.0	21.3	54.7
73	NB072022	0.61	7.7	3.0	2.0	55	0.7	0.3	7.0	0.416	0.2	2.0	83	1.1	12.0	1.7	44.6	103.2
74	NB072023	0.55	7.6	3.4	2.1	50	0.6	0.4	7.8	0.406	0.2	2.1	79	1.0	11.8	1.4	52.6	100.8
75	NB072024	0.52	7.0	2.7	2.3	45	0.5	0.3	7.4	0.320	0.2	1.8	78	0.9	10.9	1.2	100.9	85.2
76	NB072026	0.56	6.5	3.4	2.0	44	0.5	0.4	6.6	0.259	0.2	1.7	66	0.7	11.4	1.4	55.9	80.2
77	NB072027	0.39	5.8	3.0	1.7	46	0.4	0.4	6.6	0.238	0.2	1.6	70	0.6	11.7	1.5	62.1	78.4
78	NB072028	0.53	5.8	3.1	2.3	61	0.5	0.5	7.4	0.229	0.2	1.8	57	1.1	13.4	1.5	53.6	67.3
79	NB072029	0.55	7.6	3.5	2.3	48	0.6	0.4	7.3	0.352	0.3	1.9	81	1.0	12.8	1.4	64.7	94.9
80	NB072030	0.32	4.9	2.5	1.4	47	0.5	0.3	6.2	0.220	0.2	1.6	49	0.8	9.8	1.7	58.9	62.2
81	NB072031	0.55	5.6	2.9	1.8	44	0.5	0.3	7.1	0.263	0.2	1.7	67	0.9	10.2	1.3	32.6	76.8
82	NB072032	0.43	6.0	3.8	1.9	42	0.6	0.4	7.2	0.321	0.2	1.9	71	1.0	11.9	1.7	97.8	90.6
83	NB072033	0.48	6.2	3.2	1.7	41	0.6	0.3	7.5	0.321	0.2	1.8	65	0.9	10.9	1.4	80.8	91.7
84	NB072034	0.54	8.4	3.7	1.6	41	0.4	0.3	7.5	0.322	0.2	1.7	98	0.5	8.4	1.0	72.1	92.1
85	NB072035	0.35	9.6	4.1	1.7	43	0.4	0.3	8.1	0.287	0.2	1.8	100	0.6	8.9	1.3	81.5	105.3
86	NB072036	0.32	13.0	4.6	2.1	53	0.3	0.4	8.4	0.263	0.2	1.8	107	0.4	10.7	1.5	94.6	103.1
87	NB072037	1.46	10.2	3.8	2.0	39	0.4	0.3	8.4	0.327	0.2	2.5	125	0.7	9.9	1.4	121.1	123.5
88	NB072038	0.38	9.4	3.3	2.2	33	0.4	0.3	8.1	0.300	0.2	2.0	123	0.7	10.1	1.4	72.8	92.6

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
89	NB072039	279	6.86	7.9	<0.1	293	1	0.18	0.09	0.28	53.93	13.4	119	3.8	18.35	1.8	1.0	0.8	5.51	15.90
90	NB072040	334	7.27	7.8	<0.1	276	1	0.17	0.11	0.19	56.14	10.9	93	3.6	14.77	2.0	1.1	0.8	5.43	15.48
91	NB072041	349	8.07	9.4	<0.1	407	1	0.19	0.17	0.17	58.05	12.6	122	4.8	21.03	3.0	1.7	0.9	5.84	22.49
92	NB072042	299	6.46	6.6	<0.1	300	1	0.14	0.14	0.17	58.52	9.3	78	3.4	10.67	1.7	1.0	0.9	4.89	16.93
93	NB072043	281	6.19	7.6	<0.1	316	1	0.15	0.33	0.24	58.66	10.2	72	3.2	11.32	2.3	1.2	0.8	3.68	15.74
94	NB072044	130	4.72	3.4	<0.1	194	1	0.10	0.08	0.14	31.38	5.6	19	1.8	5.72	1.5	0.9	0.4	1.95	10.15
95	NB072045	111	6.25	3.3	<0.1	222	1	0.13	0.07	0.10	47.71	6.9	27	2.8	6.86	2.0	1.2	0.8	2.75	13.06
96	NB072046	249	5.88	6.8	<0.1	260	1	0.14	0.12	0.17	49.62	8.5	37	3.0	13.45	2.4	1.3	0.8	2.95	13.62
97	NB072047	261	6.88	6.0	<0.1	208	1	0.24	0.07	0.16	43.58	5.9	35	2.7	7.84	2.3	1.4	0.7	3.43	15.04
98	NB072048	186	6.48	6.3	<0.1	214	1	0.15	0.09	0.18	42.11	7.6	36	2.9	6.52	2.1	1.2	0.7	3.16	13.55
99	NB072050	146	5.58	4.8	<0.1	251	1	0.14	0.09	0.13	55.54	8.7	29	2.8	9.29	3.0	1.7	1.0	2.41	12.90
100	NB072051	272	6.34	5.1	<0.1	273	2	0.21	0.07	0.28	52.07	12.3	39	3.5	11.78	2.6	1.6	0.8	3.61	15.27
101	NB072052	242	6.37	4.9	<0.1	275	1	0.20	0.07	0.31	55.08	11.3	38	4.0	11.54	2.4	1.3	0.8	3.28	14.93
102	NB072053	335	6.00	5.5	<0.1	219	1	0.22	0.49	0.33	34.50	8.5	57	1.6	13.21	2.3	1.3	0.8	4.25	12.86
103	NB072054	238	6.43	7.4	<0.1	311	1	0.15	0.14	0.13	58.91	10.6	72	3.2	16.58	2.7	1.4	1.0	3.62	16.00
104	NB072055	270	7.46	10.9	<0.1	311	2	0.30	0.04	0.19	59.46	8.9	127	5.5	18.53	2.1	1.4	0.7	6.91	22.56
105	NB072056	374	7.29	8.5	<0.1	265	1	0.16	0.10	0.19	48.87	15.4	129	3.2	21.00	1.7	1.0	0.6	4.62	15.76
106	NB072057	359	6.69	6.6	<0.1	256	1	0.16	0.08	0.44	34.61	9.2	144	2.6	18.17	1.5	0.9	0.6	5.71	15.75
107	NB072058	242	7.26	9.4	<0.1	368	1	0.21	0.06	0.20	57.12	12.1	117	4.9	15.48	1.9	1.2	0.7	4.14	19.95
108	NB072059	273	8.06	10.2	<0.1	278	1	0.19	0.10	0.35	48.61	11.9	124	3.5	18.73	1.8	1.0	0.7	5.73	15.45
109	NB072060	306	8.10	9.0	<0.1	302	2	0.18	0.06	0.33	54.84	13.6	122	4.6	19.48	2.3	1.4	0.7	5.30	17.38
110	NB072061	207	7.41	16.2	<0.1	369	2	0.46	0.36	0.20	44.18	7.5	92	2.9	20.07	2.7	1.4	0.7	7.80	25.79
111	NB072062	175	7.02	3.0	<0.1	453	1	0.26	1.10	0.16	45.40	10.3	50	3.8	10.10	2.9	1.4	0.9	4.04	17.43
112	NB072063	378	8.30	13.2	<0.1	379	2	0.37	0.40	0.31	42.34	6.7	53	3.8	10.39	2.5	1.3	0.7	3.87	17.11
113	NB072064	278	6.11	9.8	<0.1	222	1	0.26	0.14	0.31	36.60	20.4	52	3.4	14.38	1.9	1.1	0.6	3.59	13.93
114	NB072065	271	5.72	7.6	<0.1	304	2	0.27	0.20	0.21	47.81	8.5	39	3.3	7.00	2.4	1.3	0.7	3.25	14.75
115	NB072066	548	7.77	17.7	<0.1	232	3	1.53	0.16	0.25	48.90	53.4	80	7.3	18.83	3.0	1.5	0.9	5.98	20.68
116	NS071001	251	4.96	7.6	<0.1	229	2	0.16	0.05	0.19	52.29	8.6	41	3.8	13.24	2.3	1.4	0.7	2.57	11.97
117	NS071002	388	6.45	10.0	<0.1	266	<1	0.32	0.04	0.12	62.26	6.4	59	5.6	12.37	2.4	1.5	0.8	5.37	18.66
118	NS071003	222	4.53	6.9	<0.1	198	<1	0.19	0.05	0.16	47.96	8.9	32	3.1	14.15	2.4	1.2	0.7	2.59	10.63
119	NS071004	201	5.27	6.3	<0.1	276	1	0.17	0.08	0.13	61.15	8.0	33	4.3	11.12	1.9	1.1	0.7	2.10	13.85
120	NS071005	206	5.27	8.0	<0.1	308	1	0.17	0.12	0.10	48.09	7.4	39	3.6	11.42	2.0	1.2	0.7	2.38	12.71
121	NS071006	155	5.41	6.6	<0.1	354	1	0.17	0.18	0.15	54.13	11.2	30	3.5	14.60	2.3	1.2	0.8	2.44	12.04
122	NS071007	195	9.42	9.6	<0.1	605	4	0.31	0.06	0.12	94.10	23.0	70	10.4	30.20	2.8	1.3	1.2	3.97	24.96
123	NS071008	195	6.82	10.7	<0.1	450	2	0.22	0.28	0.12	60.87	13.5	46	4.9	24.02	3.4	1.6	1.1	3.27	15.35
124	NS071009	215	9.72	24.7	<0.1	90	3	2.95	0.12	0.18	23.12	1.3	13	11.2	8.20	1.1	0.6	0.2	2.33	28.22
125	NS071010	236	7.34	9.9	<0.1	275	2	0.23	0.14	0.20	51.64	11.9	51	4.3	22.41	2.2	1.1	0.7	3.69	15.68
126	NS071011	275	5.51	4.3	<0.1	283	<1	0.24	0.37	0.26	49.63	7.0	49	3.4	15.49	2.2	1.4	0.7	3.53	13.70
127	NS071012	298	6.53	4.3	<0.1	512	2	0.21	0.64	0.16	48.73	7.9	29	9.3	6.48	2.5	1.2	0.6	2.25	14.90
128	NS071013	295	7.50	10.3	<0.1	240	1	0.28	0.09	0.30	62.56	11.2	63	4.7	13.46	2.8	1.5	0.7	4.90	18.52
129	NS071014	315	6.17	9.1	<0.1	297	2	0.22	0.12	0.29	54.14	13.8	44	4.6	14.40	2.4	1.4	0.5	2.90	13.47
130	NS071015	635	5.63	8.1	<0.1	282	2	0.25	0.16	0.34	56.51	10.8	40	7.7	10.55	2.5	1.5	0.8	2.47	13.70
131	NS071016	232	8.10	12.5	<0.1	306	2	0.31	0.07	0.19	71.05	9.4	73	6.0	14.82	2.2	1.5	0.8	4.53	21.04
132	NS071017	320	7.56	14.7	<0.1	332	2	0.29	0.13	0.21	61.77	9.9	69	4.6	17.18	2.0	1.3	0.9	4.92	18.43

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

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Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
89	NB072039	2.9	2.65	0.4	1.54	28.3	58.1	0.2	1.02	518	0.25	0.806	6.97	24.1	58.9	0.106	16.13	6.5	81.1	<0.04
90	NB072040	2.7	3.03	0.4	1.20	28.3	56.6	0.2	0.81	354	0.44	0.795	7.93	24.7	44.2	0.147	16.70	6.6	73.8	<0.04
91	NB072041	3.2	3.44	0.6	2.00	30.9	42.2	0.3	1.07	471	0.33	0.884	9.69	28.5	56.1	0.117	12.78	7.0	127.6	<0.04
92	NB072042	3.3	3.60	0.4	1.26	30.3	54.8	0.2	0.82	239	0.42	1.049	8.98	25.8	37.9	0.070	13.99	6.9	77.0	<0.04
93	NB072043	3.0	3.23	0.4	1.57	31.4	48.9	0.3	0.87	463	0.84	1.042	9.99	26.5	31.9	0.039	16.14	7.1	91.4	<0.04
94	NB072044	1.8	1.88	0.3	1.13	16.3	29.5	0.1	0.33	225	0.18	1.045	5.58	13.8	11.6	0.115	9.69	3.7	54.3	<0.04
95	NB072045	2.8	2.58	0.4	1.18	24.2	39.7	0.2	0.31	206	0.25	0.962	8.82	23.7	13.9	0.094	10.97	5.8	69.5	<0.04
96	NB072046	3.3	3.09	0.5	1.59	26.6	34.3	0.2	0.59	244	0.35	1.087	10.97	23.0	19.6	0.027	18.47	6.1	81.7	<0.04
97	NB072047	2.6	2.89	0.5	1.09	22.2	49.2	0.3	0.32	212	0.50	0.785	9.24	19.6	17.2	0.094	14.66	5.2	63.8	0.04
98	NB072048	2.3	2.66	0.4	1.26	21.7	39.0	0.2	0.35	253	0.39	0.767	7.82	20.3	17.5	0.085	20.31	4.9	79.6	<0.04
99	NB072050	3.3	3.08	0.5	1.50	27.1	34.6	0.2	0.54	234	0.19	1.011	10.70	26.4	17.7	0.034	15.42	6.9	78.9	<0.04
100	NB072051	2.8	3.42	0.6	1.24	26.0	42.9	0.3	0.46	450	0.43	0.701	12.06	24.3	19.0	0.139	17.87	6.2	77.9	<0.04
101	NB072052	3.0	2.92	0.4	1.50	29.3	51.2	0.2	0.49	977	0.54	0.753	11.07	23.1	20.5	0.129	18.58	6.2	92.8	<0.04
102	NB072053	2.5	3.11	0.5	0.98	17.2	20.3	0.3	0.54	625	0.48	0.682	8.87	14.6	21.8	0.162	11.34	3.9	45.6	0.05
103	NB072054	3.4	3.14	0.5	1.52	29.7	43.0	0.2	0.91	503	0.38	1.053	8.27	28.8	40.0	0.083	16.26	7.2	77.1	<0.04
104	NB072055	3.2	3.59	0.4	1.64	30.9	45.0	0.3	0.72	247	0.37	0.532	7.32	27.0	37.0	0.120	16.68	7.0	97.4	<0.04
105	NB072056	2.7	2.79	0.4	1.51	24.5	69.3	0.2	1.48	492	0.36	0.952	9.26	20.0	73.5	0.117	15.79	5.4	80.5	<0.04
106	NB072057	1.9	2.54	0.3	1.08	20.7	54.1	0.2	1.24	494	0.74	0.696	6.89	15.7	54.1	0.100	14.88	4.4	57.4	0.04
107	NB072058	2.0	3.03	0.4	1.72	30.5	46.4	0.4	1.08	432	0.33	0.770	11.65	23.5	46.7	0.068	17.02	6.8	105.4	<0.04
108	NB072059	3.0	3.21	0.4	1.26	25.9	60.9	0.2	0.78	398	0.38	0.777	7.43	21.9	54.1	0.167	19.31	5.7	67.2	<0.04
109	NB072060	3.0	3.58	0.5	1.55	29.0	73.2	0.2	0.76	477	0.41	0.782	9.12	25.2	53.7	0.166	16.95	7.0	89.3	<0.04
110	NB072061	2.9	2.06	0.5	1.54	24.0	11.3	0.2	0.68	572	1.28	0.543	15.49	19.3	21.4	0.173	19.60	5.2	75.7	0.04
111	NB072062	3.5	2.12	0.6	1.60	24.5	18.2	0.2	0.89	449	0.42	1.250	11.17	21.1	21.6	0.058	18.28	5.5	68.6	<0.04
112	NB072063	3.1	3.23	0.5	2.11	18.3	19.6	0.2	0.54	335	0.59	1.108	12.29	15.9	17.9	0.082	20.80	4.5	105.1	<0.04
113	NB072064	2.1	2.34	0.4	1.21	19.4	42.4	0.2	0.49	692	0.52	0.570	8.88	15.3	23.0	0.042	18.30	4.5	72.9	<0.04
114	NB072065	3.2	3.30	0.5	1.57	25.4	41.8	0.2	0.50	629	0.26	0.896	11.13	21.2	17.1	0.060	17.19	6.0	99.0	<0.04
115	NB072066	3.7	3.00	0.6	1.27	25.0	83.9	0.3	0.54	2627	1.80	0.466	14.49	22.3	26.2	0.104	30.34	5.8	118.9	0.05
116	NS071001	2.8	3.46	0.5	1.29	27.5	36.7	0.3	0.38	377	0.43	0.672	10.57	23.9	16.7	0.049	18.41	6.2	64.6	<0.04
117	NS071002	2.6	3.37	0.5	1.28	31.2	44.7	0.3	0.26	201	0.88	0.309	9.81	30.0	15.2	0.046	14.79	7.5	81.7	<0.04
118	NS071003	2.9	3.08	0.5	1.08	25.7	40.6	0.2	0.34	463	0.46	0.611	8.71	24.8	16.9	0.022	27.60	6.1	60.3	<0.04
119	NS071004	2.9	3.38	0.4	1.20	31.0	40.7	0.2	0.36	482	0.21	0.753	11.49	25.2	15.6	0.028	18.14	6.9	75.3	<0.04
120	NS071005	2.7	2.97	0.4	1.50	25.0	52.6	0.2	0.47	612	1.09	0.529	10.13	23.9	15.3	0.024	16.20	6.0	72.7	<0.04
121	NS071006	2.9	2.66	0.4	1.72	26.4	40.3	0.2	0.52	783	0.42	0.786	11.10	24.0	21.2	0.018	18.62	6.4	80.2	<0.04
122	NS071007	3.9	3.37	0.5	2.69	45.6	103.4	0.3	0.51	2268	0.63	0.467	11.24	42.0	35.7	0.041	17.45	10.7	158.1	<0.04
123	NS071008	4.7	2.67	0.5	1.80	30.9	51.4	0.3	0.71	1142	0.56	0.745	10.99	31.2	31.9	0.034	18.96	7.5	97.9	<0.04
124	NS071009	1.5	2.17	0.2	1.72	11.0	84.6	<0.1	0.11	142	0.46	1.059	13.19	10.0	2.8	0.308	21.88	2.8	166.5	0.05
125	NS071010	2.7	3.08	0.4	1.31	26.6	72.7	0.2	0.46	480	0.96	0.472	11.35	22.4	27.0	0.033	20.01	5.9	76.3	<0.04
126	NS071011	3.2	3.91	0.4	1.44	26.4	33.2	0.2	0.51	352	0.64	0.935	10.63	21.7	15.1	0.044	16.07	5.9	63.2	<0.04
127	NS071012	2.8	2.67	0.4	2.35	20.9	33.7	0.2	0.53	520	0.42	1.514	8.47	20.0	14.3	0.030	27.19	5.1	106.0	<0.04
128	NS071013	2.9	3.57	0.5	1.60	33.4	72.1	0.3	0.57	229	0.80	0.594	12.01	27.0	26.4	0.053	17.26	7.5	88.5	<0.04
129	NS071014	2.4	3.44	0.4	1.64	25.5	57.6	0.2	0.51	695	0.60	1.036	11.16	21.2	20.9	0.032	23.83	5.8	89.5	<0.04
130	NS071015	3.2	3.64	0.5	1.54	28.1	77.5	0.3	0.31	2936	0.60	0.934	10.21	24.0	11.0	0.047	26.24	6.4	97.9	<0.04
131	NS071016	2.8	3.52	0.5	1.73	38.5	64.3	0.3	0.55	299	0.96	0.696	15.18	30.2	22.1	0.050	27.20	8.6	125.5	<0.04
132	NS071017	3.6	3.34	0.4	1.37	31.6	71.4	0.2	0.32	565	1.12	0.609	10.67	28.3	24.0	0.053	13.62	7.5	77.5	<0.04

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
89	NB072039	0.43	10.0	3.5	1.7	37	0.4	0.3	8.0	0.293	0.4	1.9	105	0.7	9.0	1.3	80.2	92.2
90	NB072040	0.44	9.1	4.0	2.2	45	0.4	0.4	7.9	0.287	0.2	1.9	88	0.6	9.4	1.2	86.4	100.7
91	NB072041	0.52	12.8	4.1	2.3	60	0.5	0.5	8.2	0.399	0.3	2.2	132	0.7	15.1	2.0	83.0	123.1
92	NB072042	0.32	8.6	4.3	1.7	56	0.4	0.3	7.0	0.337	0.2	1.8	91	0.6	9.8	1.4	86.9	114.4
93	NB072043	0.39	7.6	3.6	2.0	87	0.5	0.4	7.7	0.405	0.2	2.0	90	0.9	11.3	1.4	70.3	105.2
94	NB072044	0.34	4.2	2.1	1.3	43	0.3	0.3	5.1	0.196	0.1	1.2	43	0.5	9.0	1.0	62.7	64.4
95	NB072045	0.39	5.1	3.9	1.7	49	0.5	0.4	7.3	0.277	0.2	1.6	55	0.9	11.0	1.4	46.9	82.7
96	NB072046	0.53	7.7	3.7	2.0	56	0.6	0.4	8.2	0.421	0.2	2.2	72	0.9	12.9	1.5	47.8	107.5
97	NB072047	0.43	6.3	3.2	2.2	37	0.6	0.4	7.9	0.319	0.2	1.9	69	0.9	11.7	1.6	95.6	96.8
98	NB072048	0.42	6.3	3.4	2.3	41	0.4	0.4	7.6	0.245	0.2	1.6	67	0.7	11.3	1.5	89.4	86.5
99	NB072050	0.45	6.5	4.2	1.8	52	0.6	0.5	7.4	0.353	0.3	1.8	67	0.9	15.5	1.6	46.1	93.8
100	NB072051	0.58	7.2	3.8	2.0	45	0.7	0.4	8.2	0.423	0.3	2.1	74	1.3	12.8	1.6	120.7	112.4
101	NB072052	0.49	6.3	3.7	2.1	47	0.6	0.4	7.6	0.396	0.2	1.9	74	1.0	12.4	1.5	90.9	92.7
102	NB072053	0.52	7.5	2.5	1.8	63	0.5	0.4	6.8	0.489	0.2	1.8	90	0.9	12.0	1.4	102.8	105.7
103	NB072054	0.36	9.0	4.5	2.0	59	0.4	0.5	7.2	0.306	0.3	1.8	79	0.6	12.7	1.7	71.5	100.4
104	NB072055	0.55	11.5	3.9	2.8	32	0.4	0.4	8.9	0.315	0.2	2.3	141	0.5	11.2	1.8	61.8	115.1
105	NB072056	0.50	10.4	3.1	1.7	56	0.4	0.3	7.7	0.383	0.2	1.8	101	0.7	9.3	1.3	111.9	91.2
106	NB072057	0.53	10.5	2.5	1.7	51	0.4	0.3	6.4	0.319	0.2	1.8	98	0.6	7.6	1.0	79.4	86.5
107	NB072058	0.42	10.3	3.3	2.3	60	0.5	0.3	8.0	0.444	0.2	2.1	119	0.7	9.7	1.4	83.6	100.2
108	NB072059	0.42	9.0	3.2	1.5	42	0.4	0.4	8.4	0.306	0.2	2.0	92	0.5	9.6	1.2	108.6	101.6
109	NB072060	0.78	10.5	3.5	1.9	42	0.5	0.4	9.8	0.373	0.2	2.5	115	0.9	10.8	1.6	116.3	114.9
110	NB072061	0.40	11.7	3.2	3.2	66	0.8	0.5	11.7	0.581	0.2	2.9	165	2.0	12.8	1.4	61.8	67.3
111	NB072062	0.27	9.2	3.4	2.3	126	0.7	0.5	7.6	0.424	0.2	2.3	83	1.2	14.1	1.4	47.5	61.8
112	NB072063	0.49	9.3	3.0	3.4	69	0.8	0.4	11.6	0.353	0.2	2.7	79	2.5	11.9	1.6	93.4	92.5
113	NB072064	0.54	7.2	2.7	2.4	42	0.6	0.3	7.7	0.303	0.2	1.8	71	1.1	10.1	1.2	73.4	79.2
114	NB072065	0.44	7.1	3.8	2.6	54	0.7	0.4	8.1	0.358	0.2	2.1	75	1.2	11.9	1.5	61.8	97.1
115	NB072066	0.76	9.7	4.1	6.5	43	1.1	0.6	14.2	0.398	0.3	4.9	101	2.7	14.0	1.8	86.6	89.6
116	NS071001	0.56	5.9	3.6	1.9	48	0.6	0.4	7.9	0.333	0.3	2.0	59	0.8	13.0	1.7	89.3	105.0
117	NS071002	0.83	8.6	4.5	2.1	53	0.5	0.4	8.7	0.307	0.2	2.5	89	0.7	13.6	1.8	30.3	113.0
118	NS071003	0.55	5.2	4.1	1.4	45	0.4	0.4	7.2	0.276	0.2	2.0	50	0.7	12.0	1.4	71.6	95.2
119	NS071004	0.56	6.8	3.7	2.3	73	0.6	0.4	6.7	0.384	0.2	1.8	62	1.2	10.0	1.4	49.6	99.0
120	NS071005	0.43	6.4	3.9	1.8	78	0.6	0.4	6.8	0.350	0.2	2.1	59	0.9	10.3	2.0	43.0	92.5
121	NS071006	0.45	6.2	3.7	1.8	74	0.6	0.4	7.8	0.411	0.2	1.7	58	0.8	10.6	1.4	51.3	85.2
122	NS071007	0.64	13.8	6.6	3.7	176	0.6	0.6	13.6	0.347	0.2	2.9	95	1.6	11.9	1.5	71.9	102.7
123	NS071008	0.65	9.6	5.5	2.6	107	0.6	0.6	8.1	0.335	0.3	1.9	77	1.1	15.6	1.8	64.8	82.1
124	NS071009	0.29	3.3	1.9	20.7	25	2.1	0.3	7.2	0.186	<0.1	8.5	23	5.0	5.4	0.6	43.0	55.8
125	NS071010	0.54	7.5	3.6	2.6	77	0.7	0.4	9.4	0.412	0.2	2.2	79	1.1	11.2	1.4	113.2	97.2
126	NS071011	0.38	6.5	3.6	2.3	94	0.7	0.4	9.9	0.429	0.2	2.8	77	1.2	12.1	1.5	38.0	125.3
127	NS071012	0.22	5.8	3.6	2.1	159	0.6	0.4	10.9	0.285	0.2	2.8	53	0.7	10.6	1.3	60.7	73.0
128	NS071013	0.71	8.6	4.1	2.5	116	0.7	0.5	10.2	0.438	0.3	2.6	94	1.2	14.7	1.6	91.6	118.6
129	NS071014	0.53	6.6	3.1	1.8	87	0.6	0.4	9.7	0.385	0.3	2.7	70	1.2	11.9	1.6	72.8	104.2
130	NS071015	0.43	6.5	3.7	1.8	84	0.6	0.4	9.5	0.362	0.3	2.8	61	1.0	13.4	1.7	64.9	118.8
131	NS071016	0.81	10.1	4.4	2.7	134	0.9	0.4	11.6	0.554	0.2	3.3	112	1.4	12.8	1.8	61.4	109.0
132	NS071017	0.96	9.3	3.9	2.3	83	0.6	0.4	9.8	0.380	0.2	2.6	92	1.1	10.8	1.5	59.5	108.9

**B-horizon**  
**<2 mm fraction**  
**4-acid dissolution**

**North American Soil Geochemistry Landscapes Project**  
**Soil Geochemistry Data**

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
133	NS071019	256	6.42	41.8	<0.1	303	1	0.27	0.25	0.15	32.94	3.5	23	4.7	9.00	1.3	0.7	0.5	2.03	14.15
134	NS071020	107	6.17	3.3	<0.1	268	2	0.17	0.44	0.07	31.50	2.2	10	3.5	3.80	1.4	0.5	0.5	1.05	10.46
135	NS071021	209	5.83	7.2	<0.1	341	2	0.19	0.24	0.28	57.29	8.0	31	5.7	10.92	2.0	0.8	0.7	2.34	12.39
136	NS071022	240	6.45	10.4	<0.1	323	2	1.01	0.15	0.21	33.85	2.8	20	7.0	9.73	1.3	0.7	0.4	2.15	16.91
137	NS071023	216	4.58	4.0	<0.1	320	<1	0.14	0.31	0.15	29.04	3.8	24	2.6	7.63	1.4	0.9	0.4	2.05	11.03
138	NS071024	280	8.67	16.2	<0.1	368	2	0.32	0.05	0.17	58.51	9.3	74	6.9	20.90	2.2	1.2	0.8	5.74	21.84
139	NS071025	296	4.97	11.8	<0.1	221	<1	0.17	0.21	0.22	39.83	22.8	35	3.3	11.22	1.9	1.1	0.5	2.98	11.86
140	NS071026	219	6.35	28.2	<0.1	245	1	0.15	0.08	0.31	64.31	15.0	48	3.8	10.71	3.4	1.4	1.0	4.26	13.84
141	NS071027	899	6.64	12.7	<0.1	252	1	1.27	0.23	0.32	38.96	7.8	46	5.6	64.27	2.4	1.4	0.7	4.45	14.02
142	NS071028	325	5.43	6.0	<0.1	243	<1	0.20	0.45	0.26	38.25	5.3	33	3.0	11.28	2.2	1.2	0.6	3.20	13.49
143	NS071029	323	6.85	9.0	<0.1	452	<1	0.28	0.10	0.24	66.95	11.9	57	4.6	12.48	2.6	1.6	0.8	4.74	18.01
144	NS071030	281	6.06	2.8	<0.1	370	<1	0.17	0.74	0.30	59.91	6.0	21	6.2	9.14	2.8	1.8	0.7	2.79	13.42
145	NS071031	258	6.48	9.7	<0.1	332	1	0.22	0.10	0.14	60.54	14.0	48	5.0	14.72	2.2	1.3	0.8	3.24	15.96
146	NS071032	375	6.87	32.0	<0.1	387	2	0.23	0.13	0.13	57.96	2.9	46	3.7	10.82	1.8	0.9	0.9	4.08	16.20
147	NS071033	146	8.01	8.6	<0.1	333	2	0.20	0.74	0.21	49.52	13.9	61	5.5	13.65	2.4	1.2	0.9	3.90	15.65
148	NS071034	297	9.47	11.3	<0.1	428	2	0.39	0.18	0.28	62.95	28.1	87	9.2	20.12	2.6	1.7	0.8	5.08	26.36
149	NS071036	312	9.41	18.5	<0.1	521	2	0.42	0.10	0.21	79.81	9.8	78	5.0	17.72	2.9	1.5	1.2	5.63	24.70
150	NS071037	213	6.72	7.2	<0.1	320	<1	0.19	0.09	0.22	42.89	26.6	117	5.8	11.79	3.0	1.7	0.8	7.68	16.98
151	NS071038	231	4.43	6.2	<0.1	200	1	0.14	0.11	0.18	42.39	7.5	38	2.9	15.71	1.7	1.4	0.6	2.16	10.91
152	NS071039	418	7.38	11.4	<0.1	296	1	0.31	0.09	0.20	60.41	17.8	64	4.4	18.68	2.3	1.4	0.7	4.52	18.53
153	NS071040	351	8.37	11.6	<0.1	475	2	0.28	0.05	0.35	89.52	18.2	70	7.1	15.34	3.0	1.6	1.2	4.64	23.02
154	NS071041	188	4.40	18.7	<0.1	314	1	0.35	0.05	0.09	46.41	3.6	26	5.5	10.69	1.3	0.6	0.8	3.81	13.97
155	NS071042	315	5.11	11.1	<0.1	264	1	0.20	0.15	0.17	40.50	4.7	38	3.3	10.23	1.8	1.0	0.7	3.35	13.63
156	NS071043	202	7.26	14.2	<0.1	378	2	0.18	0.36	0.12	37.69	3.2	40	3.4	8.39	1.4	0.7	0.6	2.59	13.70
157	NS071044	173	7.00	13.3	<0.1	441	2	0.23	0.28	0.15	28.19	5.8	50	5.4	12.04	2.2	1.3	0.4	3.66	18.01
158	NS071045	142	7.84	8.1	<0.1	221	1	0.34	0.45	0.12	40.08	4.5	43	4.0	10.38	2.0	1.2	0.7	4.21	18.88
159	NS071046	156	6.13	2.4	<0.1	190	1	0.11	0.70	0.12	46.23	3.0	29	1.8	4.51	1.7	0.7	0.7	2.12	10.91
160	NS071047	127	6.18	7.2	<0.1	245	1	0.13	0.57	0.13	27.00	5.9	56	2.1	12.20	1.6	1.0	0.4	3.04	12.55
161	NS071048	121	7.26	284.4	<0.1	594	1	0.26	0.63	0.11	31.65	6.2	76	2.8	16.36	2.2	1.3	0.5	4.65	13.91
162	NS071049	352	8.14	30.3	<0.1	363	2	0.32	0.32	0.19	20.44	13.9	110	5.1	21.96	2.0	1.3	0.5	6.13	21.11
163	NS071050	272	6.49	12.4	<0.1	378	1	0.22	0.23	0.28	52.87	6.7	55	3.7	11.94	2.3	1.2	0.8	3.72	16.86
164	NS071052	305	9.42	30.3	<0.1	526	2	0.37	0.11	0.21	42.38	5.8	76	8.1	23.01	2.2	1.1	0.7	5.81	24.35
165	NS071053	107	6.55	11.9	<0.1	424	2	0.23	0.17	0.09	45.84	8.7	48	4.9	14.98	2.1	1.0	0.8	3.39	15.44
166	NS071054	208	8.80	9.9	<0.1	492	2	0.32	0.24	0.16	67.59	12.3	59	7.2	14.02	2.4	1.2	0.9	4.24	22.20
167	NS071055	91	6.14	9.3	<0.1	376	1	0.20	0.29	0.16	25.59	2.2	13	3.8	4.92	1.4	0.6	0.5	1.61	14.93
168	NS071056	289	6.86	8.1	<0.1	335	1	0.17	0.64	0.24	50.53	18.0	52	5.0	43.84	3.5	2.2	1.1	3.90	15.75
169	NS071057	165	4.05	10.4	<0.1	270	1	0.22	0.10	0.13	49.65	11.5	30	2.9	16.52	1.9	1.2	0.8	2.68	9.81
170	PE071001	149	4.96	7.4	<0.1	252	1	0.12	0.07	0.12	71.94	7.9	28	2.8	9.95	1.7	0.7	0.9	2.39	10.12
171	PE071002	135	4.96	7.4	<0.1	244	<1	0.15	0.03	0.07	60.45	7.6	29	2.6	9.56	1.6	0.8	0.8	2.56	10.16
172	PE071003	145	5.59	7.0	<0.1	309	<1	0.12	0.03	0.07	59.66	10.3	31	3.7	10.75	1.7	0.9	0.7	2.50	12.66
173	PE071004	116	3.79	5.9	<0.1	247	<1	0.11	<0.02	0.07	91.43	4.6	19	2.5	5.80	1.6	0.6	1.1	1.78	9.94
174	PE071005	103	4.40	7.1	<0.1	287	1	0.13	<0.02	0.06	71.50	5.8	21	3.0	9.30	1.6	0.7	1.0	2.18	10.79
175	PE071006	156	4.86	5.0	<0.1	353	<1	0.11	0.10	0.13	42.45	6.6	20	2.6	8.25	1.9	1.0	0.7	1.73	10.97
176	PE071007																			

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
133	NS071019	2.1	2.32	0.3	1.95	15.6	47.3	0.1	0.23	319	0.46	1.381	7.68	14.7	8.4	0.070	36.42	3.7	95.0	0.04
134	NS071020	1.9	1.70	0.2	1.98	15.6	27.6	<0.1	0.14	182	0.23	1.454	4.97	15.9	4.8	0.071	17.58	3.9	88.3	<0.04
135	NS071021	3.5	2.21	0.3	1.71	26.3	64.0	0.1	0.36	523	0.46	0.807	8.99	25.1	14.8	0.038	21.20	6.5	79.0	<0.04
136	NS071022	1.7	2.29	0.2	2.03	17.6	57.3	0.1	0.21	496	0.82	1.074	9.32	15.9	5.8	0.064	15.47	4.0	129.7	<0.04
137	NS071023	1.6	2.46	0.3	1.51	14.8	26.5	0.2	0.34	159	0.48	0.934	8.05	11.5	9.5	0.021	14.68	3.1	69.0	<0.04
138	NS071024	2.8	2.97	0.5	1.95	31.9	71.3	0.2	0.61	363	1.31	0.379	9.77	25.2	21.9	0.034	30.36	6.8	119.4	<0.04
139	NS071025	2.4	3.10	0.4	1.18	21.2	41.9	0.2	0.52	1553	0.53	0.639	8.61	15.7	14.4	0.030	30.48	4.3	63.7	<0.04
140	NS071026	4.3	2.23	0.5	1.40	26.8	62.0	0.2	0.28	3361	1.23	0.391	7.30	27.8	23.8	0.066	32.33	6.6	84.8	0.04
141	NS071027	2.7	2.98	0.5	1.33	19.6	48.9	0.3	0.60	768	0.61	0.480	9.17	19.1	15.5	0.054	64.52	4.6	60.0	<0.04
142	NS071028	2.9	3.21	0.5	1.09	19.7	20.0	0.3	0.42	363	0.62	0.978	9.85	17.4	7.4	0.043	12.20	4.6	56.2	<0.04
143	NS071029	3.3	4.26	0.5	1.80	32.3	61.9	0.3	0.63	644	0.60	0.615	12.90	29.5	22.0	0.056	15.99	7.7	104.9	<0.04
144	NS071030	3.3	2.75	0.6	1.42	20.3	37.6	0.3	0.44	558	1.81	1.360	7.74	17.7	7.7	0.050	14.41	4.9	89.5	<0.04
145	NS071031	2.3	3.71	0.5	1.92	30.9	49.4	0.3	0.65	660	0.66	0.688	11.75	24.7	23.3	0.020	23.25	6.8	98.6	<0.04
146	NS071032	2.6	2.74	0.4	1.41	28.4	39.6	0.2	0.34	916	1.91	0.913	9.68	22.9	7.3	0.060	23.53	6.2	71.8	<0.04
147	NS071033	3.0	1.93	0.5	1.23	24.6	68.5	0.2	0.91	1255	0.72	0.944	8.52	21.7	28.2	0.038	23.02	5.8	61.3	<0.04
148	NS071034	3.0	3.41	0.5	2.36	33.1	100.9	0.3	1.05	2875	1.82	0.555	14.78	25.5	33.8	0.061	39.03	7.0	159.6	<0.04
149	NS071036	4.1	3.68	0.5	1.99	39.8	74.7	0.3	0.60	755	0.74	0.760	8.28	35.7	23.7	0.047	15.11	9.6	119.0	<0.04
150	NS071037	2.6	3.55	0.6	0.86	21.0	235.4	0.3	1.60	1869	0.58	1.089	10.29	19.6	50.9	0.173	12.01	4.9	52.4	<0.04
151	NS071038	2.2	3.53	0.4	1.18	21.0	30.6	0.2	0.45	337	0.27	0.588	12.05	16.7	16.9	0.021	34.17	4.6	72.0	<0.04
152	NS071039	2.6	3.48	0.5	1.51	32.7	76.5	0.3	0.53	1562	1.24	0.659	13.06	27.8	20.2	0.063	23.69	7.3	79.3	<0.04
153	NS071040	4.6	4.55	0.6	2.23	44.6	64.4	0.3	0.77	1078	0.56	0.747	13.49	41.6	29.0	0.047	20.32	10.5	127.5	<0.04
154	NS071041	2.6	1.92	0.2	1.50	20.6	23.6	0.2	0.16	453	1.70	0.570	5.79	22.9	7.4	0.051	45.71	5.3	76.6	<0.04
155	NS071042	2.6	3.14	0.4	1.03	20.0	30.4	0.2	0.24	693	0.52	0.795	11.27	16.8	8.2	0.051	29.63	4.5	58.5	<0.04
156	NS071043	2.2	1.65	0.3	2.34	20.0	49.2	0.1	0.28	348	1.39	1.249	5.19	17.0	7.4	0.048	22.77	4.5	92.1	<0.04
157	NS071044	2.0	2.08	0.5	1.65	12.1	43.9	0.3	0.37	3462	0.55	0.905	13.21	10.0	13.2	0.042	19.68	2.6	94.2	<0.04
158	NS071045	3.2	1.48	0.4	1.05	20.5	35.4	0.2	0.28	502	0.63	1.084	11.63	19.2	13.2	0.060	22.06	5.0	52.6	0.08
159	NS071046	3.0	1.53	0.3	0.69	22.1	18.5	0.1	0.20	352	0.50	1.351	8.28	19.4	5.6	0.035	18.77	5.1	25.4	<0.04
160	NS071047	1.6	1.57	0.3	0.87	8.9	27.8	0.2	0.45	610	0.56	1.316	10.74	8.6	15.2	0.018	13.56	2.2	35.5	<0.04
161	NS071048	2.1	1.47	0.4	1.16	14.0	34.8	0.2	0.86	700	0.66	1.114	10.49	11.7	16.6	0.040	13.26	3.0	46.0	<0.04
162	NS071049	1.7	2.85	0.4	1.35	8.2	50.8	0.2	0.98	716	0.91	0.880	12.14	8.0	34.0	0.047	21.49	2.0	67.1	0.05
163	NS071050	3.0	2.92	0.4	1.70	25.8	46.1	0.2	0.39	385	0.51	0.723	13.89	22.6	15.0	0.028	17.45	6.2	88.2	<0.04
164	NS071052	3.1	2.48	0.4	2.20	23.1	78.6	0.2	0.43	846	3.65	0.792	8.09	19.7	15.9	0.051	25.78	5.1	120.2	<0.04
165	NS071053	3.1	2.18	0.4	2.00	24.1	51.9	0.2	0.64	685	0.50	0.880	9.16	21.4	20.7	0.023	19.26	6.0	98.5	<0.04
166	NS071054	4.0	2.72	0.4	2.17	32.0	74.3	0.2	0.47	1961	0.49	0.928	12.94	29.5	28.2	0.035	23.03	7.4	118.4	<0.04
167	NS071055	2.3	1.13	0.2	2.08	12.7	36.7	<0.1	0.17	194	0.25	1.095	6.41	12.3	4.1	0.043	22.14	3.2	81.0	<0.04
168	NS071056	4.5	3.33	0.8	1.75	26.7	57.3	0.4	0.96	904	0.65	0.787	11.23	25.4	29.0	0.066	14.20	6.5	82.8	<0.04
169	NS071057	2.9	3.18	0.4	1.19	24.5	39.2	0.2	0.34	717	0.61	0.428	8.82	22.3	16.6	0.017	26.21	5.4	64.9	<0.04
170	PE071001	3.0	2.10	0.3	2.25	36.9	37.5	0.1	0.37	680	0.33	0.383	8.38	31.9	13.9	0.049	10.73	8.5	65.7	<0.04
171	PE071002	2.5	1.83	0.3	2.12	30.5	37.7	0.1	0.31	648	0.34	0.360	6.42	25.7	15.2	0.060	11.03	7.0	62.5	<0.04
172	PE071003	2.3	2.23	0.3	2.88	32.3	36.8	0.2	0.46	1357	0.26	0.366	8.81	27.7	15.6	0.081	12.19	7.3	88.0	<0.04
173	PE071004	3.4	1.96	0.3	1.82	46.3	20.1	0.1	0.14	895	0.23	0.182	7.57	44.8	5.0	0.064	11.24	11.1	64.4	<0.04
174	PE071005	3.0	1.86	0.3	2.35	34.2	27.4	0.1	0.32	508	0.27	0.242	7.75	33.3	12.4	0.027	11.09	8.6	80.4	<0.04
175	PE071006	2.9	2.27	0.4	2.08	21.3	32.1	0.2	0.44	368	0.17	1.099	8.32	17.9	14.2	0.029	14.94	4.9	85.5	<0.04
176	PE071007																			

**B-horizon**  
**<2 mm fraction**  
**4-acid dissolution**

**North American Soil Geochemistry Landscapes Project**  
**Soil Geochemistry Data**

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
133	NS071019	0.21	4.3	2.3	2.7	63	0.5	0.3	6.8	0.263	0.1	1.7	43	1.3	7.0	0.8	93.7	65.0
134	NS071020	0.16	2.1	2.5	2.0	75	0.4	0.2	6.0	0.137	<0.1	1.3	19	0.7	5.4	0.5	22.8	49.9
135	NS071021	0.33	5.3	4.4	2.3	62	0.6	0.4	9.4	0.323	0.1	2.1	50	1.3	9.0	1.0	121.7	69.3
136	NS071022	0.23	4.5	2.5	7.9	60	0.7	0.2	7.0	0.229	0.1	2.6	35	4.7	6.3	0.8	63.3	71.7
137	NS071023	0.47	4.3	1.9	1.2	88	0.5	0.2	5.1	0.293	0.2	1.8	51	0.8	8.3	1.1	22.1	75.0
138	NS071024	0.92	10.9	3.8	2.7	99	0.6	0.4	8.3	0.354	0.2	2.6	102	1.1	11.7	1.5	74.8	99.4
139	NS071025	0.55	6.2	2.5	1.4	60	0.5	0.3	7.1	0.354	0.2	1.9	71	0.8	10.7	1.4	74.7	95.2
140	NS071026	0.48	6.5	5.0	1.5	44	0.4	0.6	6.9	0.205	0.2	2.0	62	0.7	14.0	1.6	155.0	68.4
141	NS071027	1.29	10.9	3.4	2.3	38	0.5	0.4	7.9	0.410	0.2	1.8	87	1.4	13.0	1.7	247.2	96.7
142	NS071028	0.65	7.4	3.1	1.6	109	0.5	0.3	7.3	0.423	0.2	2.2	79	1.1	12.5	1.6	38.7	103.0
143	NS071029	0.55	9.5	4.6	2.6	64	0.8	0.5	9.7	0.447	0.3	2.6	95	1.1	14.0	1.9	60.6	129.8
144	NS071030	0.61	7.2	3.1	1.6	153	0.4	0.5	8.3	0.392	0.3	2.9	78	1.0	15.7	1.9	54.7	89.6
145	NS071031	0.61	8.3	3.7	2.0	91	0.6	0.4	8.8	0.408	0.3	2.6	82	1.1	12.5	1.7	57.2	118.6
146	NS071032	0.51	7.3	3.7	2.0	103	0.6	0.4	8.6	0.351	0.2	2.3	73	1.3	8.4	1.2	37.2	85.8
147	NS071033	0.29	9.9	4.1	2.5	99	0.5	0.5	8.1	0.336	0.2	2.0	68	1.1	11.6	1.2	100.8	58.9
148	NS071034	0.71	12.9	3.5	3.3	118	0.9	0.5	10.5	0.501	0.3	3.8	126	1.5	14.6	1.8	162.0	101.6
149	NS071036	0.62	13.3	5.8	2.7	97	0.4	0.5	11.8	0.276	0.2	2.7	108	0.6	12.8	1.9	156.3	117.4
150	NS071037	0.64	14.4	2.9	1.8	52	0.6	0.5	5.3	0.614	0.3	1.7	149	0.8	16.1	2.0	245.1	119.8
151	NS071038	0.48	5.1	2.7	1.6	44	0.6	0.3	6.7	0.429	0.2	1.8	59	0.8	10.7	1.4	80.2	109.7
152	NS071039	0.73	9.3	4.0	2.2	94	0.6	0.4	9.1	0.423	0.2	2.8	87	1.1	12.8	1.8	111.9	109.7
153	NS071040	0.62	12.6	6.7	3.0	64	0.8	0.6	11.9	0.413	0.3	2.8	108	1.1	14.6	2.0	94.1	135.1
154	NS071041	0.46	4.2	4.1	2.0	47	0.4	0.4	5.0	0.207	0.1	2.2	54	0.8	6.5	0.8	35.1	54.2
155	NS071042	0.50	5.8	2.6	1.5	85	0.7	0.3	6.8	0.375	0.2	1.9	61	0.9	9.3	1.2	35.9	95.4
156	NS071043	0.31	4.7	2.8	1.7	89	0.3	0.3	6.3	0.195	<0.1	1.4	45	0.8	6.6	0.7	51.1	50.8
157	NS071044	0.24	9.4	1.9	2.2	146	0.8	0.3	6.9	0.546	0.2	1.5	71	1.4	11.9	1.6	43.8	63.1
158	NS071045	0.12	7.0	3.9	2.6	94	0.7	0.4	7.7	0.409	0.2	1.7	80	1.0	10.9	1.3	56.9	45.6
159	NS071046	0.12	4.5	3.2	1.4	130	0.5	0.3	8.8	0.337	0.1	1.8	40	0.5	6.8	0.7	22.2	42.3
160	NS071047	0.22	8.2	1.6	1.5	127	0.7	0.3	4.4	0.620	0.1	1.2	75	0.9	7.8	1.1	34.3	44.3
161	NS071048	0.40	12.3	2.4	1.5	112	0.5	0.3	5.5	0.551	0.2	1.1	95	1.6	11.3	1.4	51.3	45.0
162	NS071049	0.39	13.9	1.6	2.3	74	0.6	0.3	7.0	0.497	0.2	1.8	127	1.3	10.3	1.5	97.7	77.6
163	NS071050	0.55	7.5	4.0	2.3	72	0.9	0.4	9.5	0.494	0.2	2.1	79	1.3	11.4	1.4	58.1	87.2
164	NS071052	0.79	11.4	3.1	2.7	114	0.5	0.4	9.4	0.277	0.2	2.5	101	0.9	9.4	1.2	67.0	76.6
165	NS071053	0.38	7.9	4.0	2.4	82	0.6	0.4	7.7	0.327	0.2	1.9	73	1.0	11.1	1.2	54.2	67.4
166	NS071054	0.57	10.9	4.8	2.9	98	0.8	0.5	8.9	0.459	0.2	2.1	86	1.6	11.6	1.5	69.4	86.8
167	NS071055	0.18	3.0	2.4	2.9	66	0.4	0.3	5.7	0.208	<0.1	1.4	31	1.0	6.5	0.6	44.2	35.6
168	NS071056	0.41	11.5	4.9	2.5	90	0.6	0.6	6.5	0.453	0.4	2.1	150	1.1	22.0	2.4	71.2	101.7
169	NS071057	0.56	4.8	3.1	1.5	60	0.5	0.4	6.9	0.322	0.2	1.9	49	0.6	10.0	1.3	57.1	101.9
170	PE071001	0.53	4.1	5.0	1.7	61	0.5	0.4	7.1	0.395	0.2	1.5	38	0.9	7.4	0.9	44.6	63.5
171	PE071002	0.47	3.9	3.7	1.7	59	0.4	0.3	6.0	0.312	0.1	1.3	39	0.6	6.9	0.7	37.1	55.5
172	PE071003	0.54	5.5	3.9	1.9	61	0.5	0.3	6.1	0.378	0.1	1.2	46	0.7	8.0	1.0	41.6	68.5
173	PE071004	0.36	3.3	6.6	1.3	46	0.5	0.4	5.4	0.344	0.1	1.2	36	0.6	7.2	0.8	18.3	60.0
174	PE071005	0.55	3.9	5.0	2.0	54	0.5	0.3	5.9	0.363	0.1	1.2	37	0.8	6.8	0.9	34.9	53.9
175	PE071006	0.32	4.6	3.0	1.7	60	0.5	0.4	6.1	0.311	0.2	1.5	49	0.6	9.1	1.3	33.1	68.0
176	PE071007																	

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008																			
178	PE071009	190	7.34	7.8	<0.1	325	1	0.22	0.09	0.12	46.53	13.2	50	5.0	18.57	2.0	1.2	0.6	3.09	16.97



*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	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
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008																			
178	PE071009	2.2	2.73	0.4	2.10	26.4	56.7	0.2	0.89	524	0.30	0.908	11.48	19.7	29.4	0.042	17.37	5.5	102.9	<0.04

*B-horizon*  
*<2 mm fraction*  
*4-acid dissolution*

North American Soil Geochemistry Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
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
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008																	
178	PE071009	0.54	8.8	3.0	3.3	67	0.6	0.3	7.6	0.408	0.2	1.9	74	0.9	10.3	1.4	65.2	87.6