

C-horizon  
<63 um fraction  
4-acid dissolution

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

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation	Ag ppb 20 not milled 4-acid ICP-MS&ES	Al % 0.02 not milled 4-acid ICP-MS&ES	As ppm 0.2 not milled 4-acid ICP-MS&ES	Au ppm 0.1 not milled 4-acid ICP-MS&ES	Ba ppm 1 not milled 4-acid ICP-MS&ES	Be ppm 1 not milled 4-acid ICP-MS&ES	Bi ppm 0.04 not milled 4-acid ICP-MS&ES	Ca % 0.02 not milled 4-acid ICP-MS&ES	Cd ppm 0.02 not milled 4-acid ICP-MS&ES	Ce ppm 0.02 not milled 4-acid ICP-MS&ES	Co ppm 0.2 not milled 4-acid ICP-MS&ES	Cr ppm 1 not milled 4-acid ICP-MS&ES	Cs ppm 0.1 not milled 4-acid ICP-MS&ES	Cu ppm 0.02 not milled 4-acid ICP-MS&ES	Dy ppm 0.1 not milled 4-acid ICP-MS&ES	Er ppm 0.1 not milled 4-acid ICP-MS&ES	Eu ppm 0.1 not milled 4-acid ICP-MS&ES	Fe % 0.02 not milled 4-acid ICP-MS&ES	Ga ppm 0.02 not milled 4-acid 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	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Arithmetic Mean	214	7.28	14.9	0.0	369	2	0.29	0.30	0.18	73.14	15.3	70	5.4	26.92	3.7	1.9	1.1	3.88	17.28
Median	207	7.16	10.7	0.1	351	2	0.24	0.20	0.17	69.60	14.7	62	4.7	21.15	3.3	1.8	1.0	3.84	16.72
Variance	6436	1.62	717.9	0.0	9438	1	0.06	0.10	0.01	674.94	61.2	1204	9.7	922.52	1.9	0.4	0.1	0.91	12.84
Standard Deviation	80	1.27	26.8	0.0	97	1	0.24	0.32	0.09	25.98	7.8	35	3.1	30.37	1.4	0.6	0.4	0.95	3.58
Skewness	2	1.26	11.0	-	1	1	5.25	3.20	2.07	3.20	6.6	4	3.7	9.77	3.3	2.0	3.7	0.96	1.10
Kurtosis	5	2.98	134.6	-	2	3	34.93	13.83	6.67	14.24	66.6	33	21.6	112.65	17.1	7.4	26.0	3.37	2.03
Percentiles																			
Minimum Value	60	4.87	2.2	<0.1	83	<1	0.05	0.03	0.05	30.18	2.4	16	0.7	6.16	1.8	0.9	0.3	1.33	11.29
5th Percentile	116	5.66	4.5	<0.1	253	1	0.12	0.06	0.07	46.90	8.0	37	2.4	13.21	2.3	1.2	0.7	2.49	12.71
10th Percentile	129	5.94	5.7	<0.1	270	1	0.14	0.08	0.09	51.86	9.8	45	3.0	14.69	2.5	1.3	0.8	2.86	13.29
15th Percentile	143	6.07	6.5	<0.1	287	1	0.15	0.09	0.11	55.76	10.8	48	3.4	15.48	2.7	1.4	0.8	3.09	13.76
25th Percentile	162	6.36	7.9	<0.1	311	2	0.18	0.11	0.13	61.49	12.1	53	3.7	17.45	2.9	1.5	0.9	3.28	14.76
35th Percentile	176	6.72	9.3	<0.1	324	2	0.21	0.15	0.15	64.95	13.4	56	4.1	18.93	3.1	1.6	0.9	3.47	15.42
50th Percentile	207	7.16	10.7	<0.1	351	2	0.24	0.20	0.17	69.60	14.7	62	4.7	21.15	3.3	1.8	1.0	3.84	16.72
65th Percentile	228	7.56	12.4	<0.1	384	2	0.27	0.27	0.19	74.53	16.0	72	5.7	26.11	3.8	2.0	1.1	4.12	18.39
70th Percentile	238	7.68	13.7	<0.1	396	2	0.29	0.29	0.19	75.79	16.7	76	5.9	27.13	3.9	2.1	1.2	4.23	19.03
75th Percentile	251	7.95	15.0	<0.1	406	2	0.31	0.35	0.21	78.17	17.5	79	6.2	28.64	4.0	2.2	1.2	4.30	19.37
80th Percentile	266	8.04	16.1	<0.1	432	3	0.33	0.39	0.23	80.23	18.3	85	6.6	30.41	4.3	2.3	1.3	4.39	19.90
90th Percentile	305	8.63	25.8	<0.1	493	3	0.44	0.63	0.29	89.38	20.0	103	8.2	38.74	5.1	2.6	1.5	4.99	21.21
95th Percentile	356	9.40	30.2	<0.1	564	3	0.57	0.91	0.33	109.18	23.1	115	9.6	51.72	5.8	2.8	1.6	5.36	23.60
98th Percentile	416	11.06	39.6	<0.1	616	4	0.88	1.21	0.45	167.70	27.1	135	13.2	62.65	6.8	3.4	1.9	6.33	25.26
99th Percentile	477	11.19	64.9	<0.1	639	4	1.38	1.64	0.55	191.88	35.1	192	16.6	108.43	8.8	4.5	2.2	6.87	28.59
Maximum Value	612	12.92	345.7	<0.1	759	6	2.16	2.37	0.66	223.50	96.6	369	28.6	385.60	12.4	5.2	4.1	8.39	32.30

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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation	Gd ppm 0.1 not milled 4-acid ICP-MS&ES	Hf ppm 0.02 not milled 4-acid ICP-MS&ES	Ho ppm 0.1 not milled 4-acid ICP-MS&ES	K % 0.02 not milled 4-acid ICP-MS&ES	La ppm 0.1 not milled 4-acid ICP-MS&ES	Li ppm 0.1 not milled 4-acid ICP-MS&ES	Lu ppm 0.1 not milled 4-acid ICP-MS&ES	Mg % 0.02 not milled 4-acid ICP-MS&ES	Mn ppm 2 not milled 4-acid ICP-MS&ES	Mo ppm 0.05 not milled 4-acid ICP-MS&ES	Na % 0.002 not milled 4-acid ICP-MS&ES	Nb ppm 0.04 not milled 4-acid ICP-MS&ES	Nd ppm 0.1 not milled 4-acid ICP-MS&ES	Ni ppm 0.1 not milled 4-acid ICP-MS&ES	P % 0.001 not milled 4-acid ICP-MS&ES	Pb ppm 0.02 not milled 4-acid ICP-MS&ES	Pr ppm 0.1 not milled 4-acid ICP-MS&ES	Rb ppm 0.1 not milled 4-acid ICP-MS&ES	S % 0.04 not milled 4-acid 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	0	0	0	0	0	0	0	0	0	0	0	0	175
Arithmetic Mean	4.5	4.54	0.7	1.80	33.6	55.0	0.3	0.90	619	0.86	1.089	14.94	33.1	40.8	0.069	21.67	8.5	90.7	0.02
Median	4.2	4.51	0.7	1.67	32.8	50.5	0.3	0.85	527	0.62	1.059	14.46	31.8	36.9	0.055	19.36	8.2	90.2	0.02
Variance	3.2	1.35	0.1	0.30	94.7	542.7	0.0	0.10	154163	0.86	0.146	29.72	102.5	547.8	0.003	147.61	6.3	594.2	0.00
Standard Deviation	1.8	1.16	0.2	0.55	9.7	23.3	0.1	0.31	393	0.93	0.382	5.45	10.1	23.4	0.051	12.15	2.5	24.4	0.01
Skewness	3.1	2.64	2.5	0.98	2.8	2.2	0.9	1.25	3	4.56	0.123	5.31	2.7	5.1	3.499	3.71	2.8	0.0	4.30
Kurtosis	15.9	20.06	11.1	2.28	18.8	10.5	2.0	3.65	10	26.24	-0.407	48.48	16.1	44.2	19.486	20.31	18.4	0.3	20.16
Percentiles																			
Minimum Value	2.3	1.20	0.4	0.25	11.0	12.0	0.2	0.15	146	0.21	0.208	3.04	13.3	4.6	0.011	5.96	3.2	11.5	<0.04
5th Percentile	2.8	2.89	0.4	1.08	21.9	22.9	0.2	0.50	248	0.28	0.494	9.48	21.3	16.9	0.024	10.67	5.6	52.6	<0.04
10th Percentile	3.0	3.51	0.5	1.23	23.8	29.9	0.2	0.60	285	0.34	0.600	10.29	23.0	22.8	0.028	12.18	6.1	62.8	<0.04
15th Percentile	3.1	3.65	0.5	1.33	25.7	38.2	0.2	0.66	324	0.37	0.647	11.07	25.0	25.4	0.030	13.18	6.3	67.3	<0.04
25th Percentile	3.4	3.95	0.5	1.44	27.9	42.8	0.3	0.72	379	0.44	0.846	12.09	27.3	30.5	0.040	14.72	7.1	71.9	<0.04
35th Percentile	3.7	4.19	0.6	1.51	30.7	46.2	0.3	0.78	428	0.51	0.936	13.13	29.0	33.2	0.046	16.88	7.5	82.2	<0.04
50th Percentile	4.2	4.51	0.7	1.67	32.8	50.5	0.3	0.85	527	0.62	1.059	14.46	31.8	36.9	0.055	19.36	8.2	90.2	<0.04
65th Percentile	4.5	4.77	0.7	1.93	35.7	57.7	0.3	0.95	620	0.73	1.229	15.88	35.1	42.9	0.068	22.26	9.0	100.0	<0.04
70th Percentile	4.8	4.89	0.7	1.98	37.2	61.5	0.4	0.98	678	0.80	1.293	16.46	36.3	44.5	0.076	22.88	9.3	103.8	<0.04
75th Percentile	5.0	5.02	0.8	2.13	38.1	64.0	0.4	1.02	742	0.91	1.345	16.78	37.3	46.3	0.082	24.34	9.5	108.4	<0.04
80th Percentile	5.4	5.11	0.8	2.20	38.8	67.9	0.4	1.05	794	1.00	1.425	17.24	39.2	49.4	0.091	26.18	9.9	110.3	<0.04
90th Percentile	6.4	5.58	1.0	2.47	42.6	78.1	0.4	1.30	997	1.36	1.611	18.57	42.0	60.6	0.121	31.17	10.8	121.9	<0.04
95th Percentile	7.0	6.07	1.0	2.63	44.8	88.3	0.5	1.49	1283	2.24	1.727	20.71	47.1	69.5	0.148	41.25	12.0	127.8	0.05
98th Percentile	8.9	6.85	1.2	3.16	55.2	119.3	0.5	1.59	1926	3.77	1.863	24.49	61.0	88.6	0.192	48.19	14.8	143.3	0.06
99th Percentile	10.7	7.43	1.6	3.39	65.0	128.7	0.6	2.08	2174	4.99	1.957	27.70	63.1	106.8	0.250	75.73	16.0	150.5	0.07
Maximum Value	16.4	13.52	2.1	4.25	107.1	206.1	0.7	2.26	2857	7.94	1.997	67.24	106.9	260.4	0.448	107.20	27.4	154.7	0.10

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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation	Sb ppm 0.02 not milled 4-acid ICP-MS&ES	Sc ppm 0.1 not milled 4-acid ICP-MS&ES	Sm ppm 0.1 not milled 4-acid ICP-MS&ES	Sn ppm 0.1 not milled 4-acid ICP-MS&ES	Sr ppm 1 not milled 4-acid ICP-MS&ES	Ta ppm 0.1 not milled 4-acid ICP-MS&ES	Tb ppm 0.1 not milled 4-acid ICP-MS&ES	Th ppm 0.1 not milled 4-acid ICP-MS&ES	Ti % 0.001 not milled 4-acid ICP-MS&ES	Tm ppm 0.1 not milled 4-acid ICP-MS&ES	U ppm 0.1 not milled 4-acid ICP-MS&ES	V ppm 1 not milled 4-acid ICP-MS&ES	W ppm 0.1 not milled 4-acid ICP-MS&ES	Y ppm 0.1 not milled 4-acid ICP-MS&ES	Yb ppm 0.1 not milled 4-acid ICP-MS&ES	Zn ppm 0.2 not milled 4-acid ICP-MS&ES	Zr ppm 0.2 not milled 4-acid 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	0	0	0	0	0	0	0	0
Arithmetic Mean	0.86	10.7	5.7	3.2	86	0.8	0.6	12.0	0.501	0.3	3.0	84	1.5	17.5	2.1	84.2	155.7
Median	0.76	10.2	5.3	2.9	75	0.8	0.6	11.1	0.502	0.3	2.8	82	1.4	16.2	2.1	77.1	154.2
Variance	0.96	7.4	3.8	3.1	1855	0.1	0.1	25.7	0.010	0.0	2.0	379	0.4	36.3	0.3	1413.0	1407.8
Standard Deviation	0.98	2.7	1.9	1.8	43	0.3	0.3	5.1	0.100	0.1	1.4	19	0.6	6.0	0.6	37.6	37.5
Skewness	7.62	0.9	2.9	3.9	5	2.8	3.3	3.5	-0.018	1.2	3.6	0	2.3	2.4	1.5	4.5	2.3
Kurtosis	68.66	2.6	15.3	20.0	36	12.9	17.0	17.8	0.525	3.3	17.1	1	10.0	11.0	4.3	34.5	17.8
Percentiles																	
Minimum Value	0.05	3.0	2.8	1.0	35	0.1	0.3	2.6	0.212	0.1	0.7	22	0.2	8.1	1.1	28.2	41.7
5th Percentile	0.26	7.3	3.6	1.7	52	0.5	0.4	7.5	0.336	0.2	1.9	56	0.7	10.9	1.4	47.3	98.7
10th Percentile	0.36	7.8	3.9	1.9	55	0.5	0.4	8.3	0.372	0.2	2.0	65	0.9	11.8	1.5	53.0	121.8
15th Percentile	0.40	8.3	4.2	2.1	58	0.6	0.5	8.8	0.400	0.2	2.1	68	1.0	12.3	1.6	58.1	129.3
25th Percentile	0.52	8.9	4.6	2.4	64	0.7	0.5	9.5	0.443	0.3	2.3	72	1.1	14.0	1.7	66.0	137.6
35th Percentile	0.64	9.5	4.9	2.6	68	0.7	0.5	10.2	0.472	0.3	2.5	75	1.2	14.8	1.9	70.6	144.7
50th Percentile	0.76	10.2	5.3	2.9	75	0.8	0.6	11.1	0.502	0.3	2.8	82	1.4	16.2	2.1	77.1	154.2
65th Percentile	0.84	11.4	5.9	3.2	88	0.9	0.7	11.9	0.535	0.3	3.0	89	1.5	18.3	2.3	86.6	163.7
70th Percentile	0.88	12.0	6.2	3.3	90	0.9	0.7	12.3	0.556	0.3	3.1	93	1.6	18.9	2.3	89.1	167.9
75th Percentile	0.92	12.2	6.5	3.4	95	0.9	0.7	12.8	0.566	0.4	3.2	96	1.6	19.9	2.4	92.0	173.4
80th Percentile	0.95	12.9	6.7	3.5	102	1.0	0.7	13.2	0.576	0.4	3.3	100	1.7	21.1	2.5	97.3	177.4
90th Percentile	1.14	14.1	7.6	4.6	123	1.1	0.9	16.3	0.613	0.4	4.1	107	2.1	25.1	2.8	116.2	188.9
95th Percentile	1.51	15.0	8.5	5.5	152	1.2	1.0	20.8	0.678	0.5	5.1	117	2.4	26.9	2.9	137.9	205.5
98th Percentile	2.52	17.0	11.0	8.4	180	2.0	1.3	28.6	0.732	0.6	8.0	132	3.0	28.7	3.7	170.5	229.1
99th Percentile	3.78	18.8	12.3	12.9	211	2.2	1.6	33.5	0.757	0.7	9.1	138	3.4	36.8	4.5	205.5	242.8
Maximum Value	10.66	22.8	19.3	14.5	467	2.9	2.3	47.6	0.781	0.7	12.5	147	5.3	55.9	4.7	414.9	436.4

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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		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	not milled	not milled	not milled	not 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	181	6.14	17.6	<0.1	345	2	0.27	0.25	0.16	71.49	15.3	52	4.4	22.34	3.3	1.6	1.0	3.68	15.39
2	NB071002	219	7.41	14.4	<0.1	491	3	0.31	0.49	0.13	93.66	18.0	60	5.8	30.72	5.6	2.7	1.5	4.30	19.69
3	NB071003	234	7.97	17.4	<0.1	319	2	0.23	0.37	0.28	64.95	20.4	61	4.1	30.69	4.2	2.3	1.0	4.86	19.27
4	NB071004	249	6.57	6.4	<0.1	362	3	0.72	0.90	0.22	72.19	10.9	46	7.7	17.56	5.8	2.8	1.3	2.62	16.30
5	NB071005	311	6.82	12.0	<0.1	353	2	0.58	0.92	0.19	93.84	13.7	51	6.8	13.50	4.7	2.6	1.0	3.52	17.94
6	NB071007	345	7.90	22.2	<0.1	614	3	0.56	0.15	0.25	111.20	18.3	89	28.6	55.74	5.3	2.9	1.9	5.00	23.54
7	NB071009	284	6.97	12.7	<0.1	369	2	0.25	0.20	0.20	78.00	16.8	60	5.1	26.91	3.8	2.1	1.2	4.20	17.99
8	NB071010	144	8.28	59.5	<0.1	434	3	0.57	0.25	0.30	128.10	36.9	107	8.2	57.97	5.1	2.4	1.6	5.43	18.90
9	NB071011	237	7.26	7.0	<0.1	344	1	0.28	0.22	0.09	62.46	11.3	64	5.0	19.87	2.9	1.4	0.9	2.88	15.58
10	NB071012	132	6.05	11.0	<0.1	344	3	0.22	0.43	0.14	92.71	9.0	53	4.1	15.33	3.7	1.5	1.3	2.31	13.08
11	NB071013	215	7.71	11.7	<0.1	353	2	0.25	0.13	0.16	71.77	15.7	67	4.4	19.32	2.7	1.4	0.8	3.76	15.89
12	NB071014	118	8.62	13.2	<0.1	324	2	0.35	0.17	0.28	64.14	16.9	102	5.1	19.18	3.1	1.6	1.0	4.13	16.70
13	NB071015	164	5.02	2.9	<0.1	297	1	0.24	0.29	0.15	61.32	8.1	61	3.4	14.50	3.3	1.7	0.9	2.08	13.69
14	NB071016	356	7.13	16.7	<0.1	323	2	0.27	0.39	0.15	83.56	13.4	64	3.6	20.89	3.1	1.4	1.0	3.41	13.91
15	NB071017	197	6.26	14.2	<0.1	344	2	0.16	0.24	0.19	76.15	12.7	58	3.4	23.98	3.2	1.5	1.0	3.17	15.63
16	NB071018	227	7.99	5.1	<0.1	523	3	0.29	0.29	0.15	66.52	23.5	72	6.1	31.53	4.2	2.4	1.3	5.03	23.34
17	NB071019	272	9.11	15.9	<0.1	435	2	0.30	0.09	0.12	57.47	25.0	81	7.7	35.25	3.5	2.1	0.9	6.06	25.22
18	NB071020	215	7.30	11.0	<0.1	394	2	0.24	0.12	0.16	80.42	14.3	68	7.3	19.86	3.6	2.0	1.2	3.84	19.38
19	NB071021	179	6.13	10.9	<0.1	311	3	0.35	0.28	0.23	88.71	15.0	49	5.9	18.63	4.2	2.3	0.9	3.32	15.09
20	NB071022	175	6.08	8.6	<0.1	217	2	0.45	1.05	0.23	69.36	11.2	36	1.7	41.01	4.7	2.5	1.1	3.21	12.57
21	NB071023	206	6.37	16.7	<0.1	349	2	0.31	0.31	0.21	75.84	13.5	64	4.2	22.80	3.0	1.4	1.0	3.03	14.59
22	NB071024	214	5.22	9.8	<0.1	313	2	0.16	0.25	0.19	66.95	8.9	57	2.9	14.11	2.8	1.3	1.1	2.71	13.21
23	NB071025	255	5.51	8.6	<0.1	311	3	0.57	0.53	0.25	85.12	12.9	50	4.4	16.14	4.6	2.3	1.1	2.44	14.82
24	NB071027	248	6.60	15.1	<0.1	362	2	0.18	0.35	0.17	71.77	21.5	87	3.9	29.66	5.0	2.5	1.6	4.06	15.80
25	NB071028	173	6.35	14.5	<0.1	309	1	0.14	0.26	0.15	72.15	14.4	60	3.8	20.23	3.2	1.8	1.1	3.09	12.77
26	NB071029	229	6.87	9.8	<0.1	286	2	0.13	0.20	0.12	74.99	13.2	84	4.1	20.56	3.0	1.6	0.9	3.48	14.81
27	NB071030	125	6.09	7.4	<0.1	366	2	0.16	0.13	0.11	61.47	14.5	90	3.3	20.31	2.3	1.3	0.8	3.29	15.32
28	NB071031	227	7.40	30.5	<0.1	317	2	0.22	0.16	0.25	74.81	15.5	101	4.7	29.16	3.1	1.5	1.0	4.27	14.32
29	NB071032	98	7.61	7.3	<0.1	352	2	0.22	0.23	0.16	77.18	12.1	55	5.6	22.20	3.1	1.5	1.1	3.38	16.76
30	NB071033	223	7.29	9.8	<0.1	281	1	0.24	0.22	0.09	71.10	16.6	54	4.5	27.33	3.7	2.2	1.1	4.74	17.59
31	NB071034	162	7.06	9.2	<0.1	397	2	0.23	0.11	0.20	81.99	16.7	52	4.6	22.69	4.0	2.1	1.4	3.88	17.59
32	NB071035	149	6.90	12.0	<0.1	309	2	0.17	0.14	0.27	65.39	13.6	45	3.1	16.26	2.9	1.7	0.9	3.32	13.43
33	NB071036	256	7.26	20.4	<0.1	377	2	0.29	0.29	0.14	69.88	17.6	61	6.6	27.21	3.8	2.3	1.0	3.79	18.51
34	NB071037	324	6.75	28.4	<0.1	347	1	0.26	0.32	0.18	80.23	19.2	59	3.5	20.98	5.3	2.9	1.5	3.80	17.34
35	NB071038	181	6.06	13.9	<0.1	270	2	0.17	0.17	0.11	79.82	10.1	55	5.6	14.63	3.9	2.1	1.0	2.87	13.63
36	NB071039	156	6.14	9.3	<0.1	365	2	0.23	0.08	0.17	66.54	13.9	51	6.4	23.54	3.3	1.8	1.0	3.88	15.82
37	NB071040	242	7.17	3.2	<0.1	269	4	0.43	1.02	0.27	90.05	15.6	79	5.7	14.83	5.4	3.0	1.1	3.44	16.45
38	NB071041	196	6.05	12.6	<0.1	365	2	0.21	0.67	0.22	78.86	17.5	55	4.8	33.86	4.6	2.6	1.5	3.73	15.42
39	NB071042	117	8.87	3.1	<0.1	268	1	0.19	0.61	0.28	63.04	9.1	53	2.0	41.15	5.2	2.8	0.9	3.08	13.44
40	NB071043	197	6.64	12.5	<0.1	356	2	0.26	0.42	0.28	48.36	18.0	76	5.9	31.30	3.0	1.7	0.7	4.14	18.65
41	NB071044	374	7.39	6.1	<0.1	344	1	0.25	2.37	0.61	60.95	12.4	58	2.4	39.12	5.2	2.7	1.5	3.65	14.78
42	NB071045	401	7.98	2.8	<0.1	349	4	0.63	1.21	0.53	219.10	14.4	42	11.0	30.41	12.4	5.2	2.2	4.32	25.22
43	NB071046	187	6.24	8.0	<0.1	340	2	0.21	0.06	0.16	49.13	16.8	67	5.4	26.43	2.5	1.4	0.7	3.32	18.19
44	NB071047	168	5.92	12.3	<0.1	289	2	0.24	0.10	0.19	68.58	15.5	53	4.7	27.45	4.3	2.3	1.2	3.43	15.29
45	NB071048	332	6.31	7.5	<0.1	270	1	0.22	0.25	0.17	66.26	15.2	46	4.6	27.91	3.5	2.2	0.9	3.26	16.83

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil 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		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	not milled	not milled	not milled	not 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	3.5	4.35	0.7	1.86	33.8	44.7	0.3	0.87	601	1.14	0.954	14.80	31.4	35.8	0.048	22.86	8.1	98.1	<0.04
2	NB071002	6.8	4.57	1.0	2.38	44.8	49.8	0.4	0.96	865	0.60	0.940	17.15	46.5	43.0	0.052	19.25	11.7	111.1	<0.04
3	NB071003	4.3	4.62	0.8	1.75	31.1	50.4	0.4	0.87	929	0.51	0.388	24.94	28.9	39.5	0.033	16.82	7.4	90.9	<0.04
4	NB071004	6.4	6.54	1.1	1.47	34.2	39.2	0.4	0.81	444	0.70	1.997	25.72	37.1	21.1	0.141	22.31	9.2	83.3	<0.04
5	NB071005	6.7	6.92	0.9	2.43	44.8	47.2	0.4	1.11	535	0.62	1.826	18.07	42.8	32.0	0.091	21.57	11.2	122.3	<0.04
6	NB071007	7.9	5.66	1.0	1.51	42.4	111.4	0.5	0.60	421	1.78	0.865	16.66	51.1	44.9	0.094	30.36	12.2	92.7	<0.04
7	NB071009	4.5	5.10	0.7	1.86	37.5	46.4	0.3	0.79	672	0.60	0.621	16.47	35.1	39.6	0.029	17.84	9.3	104.3	<0.04
8	NB071010	6.7	5.08	1.0	2.18	43.1	54.7	0.4	1.03	2052	2.92	1.178	14.55	44.8	71.9	0.144	41.79	11.0	112.3	<0.04
9	NB071011	3.9	4.20	0.5	1.93	32.4	49.4	0.3	0.94	409	0.62	1.189	14.37	30.3	41.2	0.038	13.78	7.9	95.6	<0.04
10	NB071012	5.7	4.66	0.7	1.67	45.4	30.1	0.3	0.75	311	0.27	1.682	12.85	45.7	31.6	0.058	19.74	11.4	82.8	<0.04
11	NB071013	3.3	4.39	0.5	2.00	32.6	42.3	0.2	0.82	483	0.71	0.959	14.63	28.5	43.7	0.040	19.64	7.7	100.3	<0.04
12	NB071014	3.8	4.53	0.6	1.58	30.2	51.3	0.3	0.67	423	4.66	0.882	14.34	29.8	61.9	0.086	28.24	7.6	93.5	<0.04
13	NB071015	4.1	5.00	0.6	1.21	31.4	45.3	0.3	0.84	246	0.33	1.554	13.38	30.6	34.2	0.072	11.86	8.2	67.1	<0.04
14	NB071016	4.8	3.39	0.5	1.44	37.4	39.9	0.2	0.95	489	0.92	1.332	11.53	37.8	47.5	0.095	17.10	9.3	71.6	<0.04
15	NB071017	4.3	4.45	0.6	1.60	36.7	35.5	0.3	0.88	427	0.62	1.493	13.50	36.1	44.8	0.039	13.85	9.1	83.5	<0.04
16	NB071018	5.0	4.98	0.8	2.19	32.3	59.4	0.5	1.03	889	0.26	0.340	17.25	34.2	49.8	0.021	14.17	8.5	106.6	<0.04
17	NB071019	4.1	4.88	0.7	2.47	27.4	75.7	0.4	0.67	566	0.42	0.208	17.24	28.8	56.1	0.078	17.45	7.2	124.1	<0.04
18	NB071020	4.9	4.92	0.7	1.54	40.1	57.0	0.4	0.81	533	0.89	0.808	18.01	40.3	37.6	0.042	15.87	10.3	88.4	<0.04
19	NB071021	5.1	6.00	0.8	1.72	44.3	61.7	0.4	0.62	1000	5.97	1.101	23.38	41.3	24.4	0.024	22.90	11.1	115.9	<0.04
20	NB071022	4.8	5.07	1.0	0.91	27.3	16.8	0.5	0.78	600	0.68	1.900	16.00	27.9	17.2	0.055	19.97	7.2	47.9	<0.04
21	NB071023	4.0	4.02	0.6	1.47	34.4	47.6	0.3	0.72	445	0.51	1.396	12.27	33.9	36.9	0.059	21.71	8.7	79.3	<0.04
22	NB071024	3.9	4.68	0.5	1.22	33.4	32.4	0.3	0.71	331	0.53	1.475	11.97	33.0	32.0	0.048	13.22	8.6	69.2	<0.04
23	NB071025	5.3	6.76	0.8	1.39	40.7	40.1	0.4	0.66	500	0.66	1.583	18.75	41.1	26.8	0.102	31.50	10.8	77.1	<0.04
24	NB071027	6.3	4.01	1.0	2.06	32.1	42.5	0.4	1.28	1361	0.36	1.408	10.36	36.4	74.8	0.089	19.46	9.0	83.4	<0.04
25	NB071028	4.2	4.45	0.6	1.41	33.5	38.5	0.3	0.93	575	0.35	1.539	11.27	31.8	47.6	0.060	14.91	8.2	66.5	<0.04
26	NB071029	3.1	3.70	0.5	1.56	30.2	44.6	0.2	1.04	439	0.50	1.298	11.53	26.7	55.1	0.074	11.17	7.1	79.7	<0.04
27	NB071030	3.0	4.01	0.5	1.62	30.0	38.1	0.2	1.06	550	0.35	1.298	13.02	29.1	52.9	0.032	12.76	7.7	79.0	<0.04
28	NB071031	3.8	3.90	0.5	1.18	28.1	45.3	0.2	0.84	415	0.72	1.245	10.50	28.4	51.1	0.157	22.52	7.1	71.5	<0.04
29	NB071032	4.4	3.63	0.6	1.41	38.9	49.8	0.3	0.86	374	0.53	1.460	15.10	36.6	36.3	0.055	20.29	9.6	88.1	<0.04
30	NB071033	4.4	5.37	0.7	1.65	38.0	48.1	0.4	0.68	466	0.54	0.520	21.37	33.7	33.9	0.019	19.07	8.6	90.6	<0.04
31	NB071034	5.2	5.44	0.8	1.92	42.3	50.0	0.4	0.89	511	0.38	1.157	22.46	40.6	33.7	0.034	19.06	10.5	107.4	<0.04
32	NB071035	3.9	4.29	0.6	1.62	32.4	43.2	0.3	0.63	352	1.09	1.098	16.84	29.1	28.9	0.038	17.28	7.4	83.7	<0.04
33	NB071036	4.7	5.09	0.8	2.45	34.2	67.7	0.4	1.09	779	0.71	1.021	16.79	31.9	37.5	0.052	21.34	8.3	109.3	<0.04
34	NB071037	6.6	5.58	1.0	1.97	39.1	42.8	0.4	0.74	460	1.35	0.745	17.55	41.8	32.8	0.034	22.43	10.1	92.5	<0.04
35	NB071038	4.4	5.58	0.7	1.51	39.4	48.1	0.3	0.58	362	0.57	0.622	19.60	35.5	31.2	0.023	11.69	8.9	82.3	<0.04
36	NB071039	3.5	4.73	0.7	1.62	34.4	53.6	0.4	0.79	301	0.69	0.576	15.09	31.0	31.7	0.030	24.31	8.3	91.5	<0.04
37	NB071040	6.8	6.77	1.0	1.58	42.0	39.3	0.5	1.09	667	0.57	1.789	21.70	41.0	31.0	0.070	26.33	10.6	107.5	<0.04
38	NB071041	5.9	4.63	1.0	1.37	37.0	44.9	0.4	1.02	794	0.46	1.217	15.69	39.9	35.8	0.044	19.19	9.8	72.5	<0.04
39	NB071042	4.1	5.01	1.0	1.13	20.1	27.9	0.5	0.70	361	1.00	1.569	12.79	22.1	26.1	0.043	21.30	5.4	49.1	<0.04
40	NB071043	3.1	4.24	0.6	1.48	21.9	72.3	0.3	1.52	585	1.00	0.982	14.44	20.4	39.6	0.084	24.14	5.5	68.0	<0.04
41	NB071044	5.3	3.87	1.1	1.08	27.5	18.7	0.4	1.01	577	1.77	1.966	10.16	28.8	23.7	0.086	28.19	7.3	44.9	<0.04
42	NB071045	16.4	13.52	2.0	2.55	107.1	124.8	0.6	0.96	744	0.42	1.392	33.63	106.9	23.6	0.448	27.85	27.4	154.7	<0.04
43	NB071046	2.9	4.80	0.5	1.47	24.1	67.7	0.3	0.97	446	0.34	1.023	18.20	23.4	37.3	0.028	21.12	6.2	83.2	<0.04
44	NB071047	5.1	6.00	0.8	1.44	34.9	49.8	0.4	0.67	582	0.68	0.630	18.46	35.0	29.2	0.026	20.31	8.8	85.8	<0.04
45	NB071048	4.0	5.58	0.7	1.39	33.7	51.1	0.3	0.75	439	0.41	0.647	17.60	31.4	28.8	0.011	19.06	8.0	86.4	<0.04

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil 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		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	not milled	not 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	1.08	9.0	5.2	2.9	68	0.9	0.5	11.4	0.484	0.3	2.7	80	1.5	15.0	2.0	73.1	148.7
2	NB071002	1.14	14.5	8.5	3.3	82	0.9	1.0	11.9	0.584	0.4	2.9	104	1.6	26.8	2.7	81.0	155.3
3	NB071003	0.83	12.5	4.6	4.5	74	1.1	0.7	13.1	0.740	0.4	2.7	116	1.3	20.5	2.4	84.5	178.6
4	NB071004	0.77	8.7	6.9	5.7	135	2.1	1.0	20.8	0.560	0.5	5.1	66	1.3	27.9	3.0	47.4	230.0
5	NB071005	0.99	11.3	7.6	4.2	112	1.2	1.0	20.8	0.570	0.4	4.2	85	2.2	25.6	2.7	67.6	234.1
6	NB071007	10.66	13.6	9.4	4.4	97	0.9	1.0	15.4	0.519	0.5	5.1	112	2.0	23.6	3.7	142.5	194.1
7	NB071009	1.01	12.0	5.7	4.2	59	0.9	0.7	11.0	0.557	0.3	2.8	95	1.4	19.0	2.3	76.1	176.0
8	NB071010	7.40	14.9	8.2	5.6	76	0.8	1.0	18.1	0.513	0.4	4.4	115	2.5	24.1	2.8	87.3	174.9
9	NB071011	1.03	10.2	4.9	2.9	76	0.8	0.5	11.3	0.529	0.3	2.5	80	1.7	14.3	1.6	58.4	145.1
10	NB071012	0.67	7.3	7.1	2.3	89	0.8	0.7	16.3	0.409	0.3	2.7	53	1.6	15.5	1.8	42.5	159.6
11	NB071013	0.89	10.1	4.8	3.5	64	0.8	0.5	11.9	0.584	0.2	2.6	85	1.5	13.8	1.7	82.9	155.6
12	NB071014	0.94	10.4	5.2	14.5	56	0.9	0.5	13.2	0.491	0.3	2.9	84	1.7	15.2	2.0	94.9	151.1
13	NB071015	0.54	6.3	5.0	3.0	75	0.8	0.5	9.9	0.448	0.3	2.7	63	1.3	14.9	1.9	50.6	174.8
14	NB071016	0.67	9.8	6.3	2.4	88	0.6	0.7	13.2	0.472	0.2	2.3	77	2.1	13.5	1.6	89.2	121.8
15	NB071017	0.64	9.3	5.9	2.5	71	0.7	0.5	9.8	0.495	0.3	2.2	81	1.3	13.9	2.0	86.6	151.6
16	NB071018	0.85	14.6	6.3	3.6	94	1.0	0.7	10.1	0.561	0.4	3.0	119	1.1	19.6	2.6	96.6	169.4
17	NB071019	0.93	15.1	5.3	4.0	58	0.9	0.6	12.1	0.590	0.4	2.9	131	1.3	17.0	2.4	111.0	160.3
18	NB071020	0.95	11.0	6.5	3.9	56	1.0	0.7	13.5	0.586	0.3	3.3	93	1.9	17.6	2.4	70.5	167.0
19	NB071021	1.14	9.8	7.2	4.9	71	1.5	0.7	22.2	0.534	0.4	9.8	68	2.4	21.6	2.8	57.9	194.6
20	NB071022	0.93	10.6	5.2	2.7	135	0.8	0.8	10.8	0.567	0.4	2.4	83	1.5	23.9	2.9	48.4	174.1
21	NB071023	0.82	8.6	5.8	2.7	72	0.7	0.6	12.3	0.443	0.2	2.3	73	1.9	13.3	1.6	70.1	131.5
22	NB071024	0.83	7.5	5.5	2.1	72	0.6	0.5	9.8	0.436	0.2	2.3	65	1.2	12.6	1.6	62.2	159.1
23	NB071025	0.84	7.5	6.7	3.5	105	1.2	0.8	24.0	0.442	0.4	4.5	65	2.2	22.0	2.7	74.7	220.3
24	NB071027	0.79	14.0	6.8	2.4	77	0.5	0.9	8.9	0.405	0.4	1.9	89	0.9	22.8	2.4	73.4	142.7
25	NB071028	1.32	9.4	5.3	1.5	88	0.5	0.5	9.6	0.432	0.3	2.4	71	0.9	16.1	1.9	52.6	151.5
26	NB071029	0.66	10.6	4.6	2.5	75	0.6	0.5	8.8	0.502	0.2	1.9	86	1.0	12.7	1.6	62.2	136.8
27	NB071030	0.74	9.6	4.4	2.0	63	0.6	0.4	9.8	0.495	0.2	2.3	80	1.2	10.7	1.4	58.0	143.6
28	NB071031	1.16	9.7	4.9	3.0	58	0.5	0.5	10.0	0.401	0.3	2.2	81	1.0	13.5	1.7	101.9	131.3
29	NB071032	0.67	9.7	6.8	3.3	78	0.7	0.6	12.5	0.448	0.3	2.6	72	1.8	15.5	1.7	71.1	131.0
30	NB071033	0.81	10.6	5.9	3.2	62	1.1	0.6	10.2	0.723	0.4	2.7	103	1.2	18.9	2.4	70.5	194.8
31	NB071034	0.84	11.0	7.0	3.4	69	1.2	0.7	13.0	0.756	0.4	3.4	86	1.6	20.6	2.5	76.5	188.3
32	NB071035	0.66	8.6	4.8	2.4	68	0.9	0.5	11.2	0.613	0.3	2.5	74	1.2	15.2	1.9	60.0	158.1
33	NB071036	2.05	13.2	4.9	3.2	77	0.8	0.7	11.8	0.573	0.4	2.8	91	1.4	21.8	2.4	79.4	179.9
34	NB071037	1.15	11.3	7.7	3.1	69	0.9	0.9	11.9	0.616	0.4	3.1	97	1.2	26.4	2.8	77.9	197.8
35	NB071038	0.96	9.2	6.3	2.5	60	0.9	0.6	11.1	0.533	0.3	2.7	73	1.5	18.6	2.3	75.4	207.1
36	NB071039	0.96	9.4	4.5	2.5	67	0.8	0.5	11.0	0.472	0.3	2.9	78	1.4	16.2	2.3	86.5	160.1
37	NB071040	0.26	12.0	7.6	7.7	113	2.0	1.0	33.6	0.535	0.5	7.0	82	2.4	27.6	3.3	62.8	204.9
38	NB071041	1.44	12.2	7.3	2.4	99	0.8	0.9	10.2	0.595	0.4	2.5	91	1.4	25.3	2.9	66.3	168.0
39	NB071042	0.28	10.9	4.1	3.1	79	0.7	0.7	11.5	0.351	0.5	2.8	54	0.7	22.9	3.2	74.2	153.0
40	NB071043	0.84	10.1	3.5	4.6	90	0.8	0.5	9.7	0.523	0.3	2.7	102	1.6	14.3	2.1	89.9	146.2
41	NB071044	0.60	15.5	5.5	2.3	264	0.5	0.9	8.9	0.569	0.4	2.3	97	1.1	25.7	2.6	72.2	135.7
42	NB071045	0.29	11.0	19.3	13.3	105	2.0	2.3	47.6	0.521	0.7	8.9	69	1.0	55.9	4.7	158.9	436.4
43	NB071046	0.71	8.9	3.9	2.9	64	1.0	0.4	8.7	0.593	0.3	2.6	78	1.5	11.7	1.8	89.5	155.5
44	NB071047	0.87	9.4	6.2	2.8	54	1.0	0.7	13.7	0.568	0.4	3.1	78	1.5	19.8	2.7	65.0	193.7
45	NB071048	0.73	9.7	4.7	2.9	61	1.0	0.6	11.2	0.566	0.3	3.1	83	1.3	18.3	2.2	77.7	179.8

C-horizon  
<63 um fraction  
4-acid dissolution

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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 not milled 4-acid ICP-MS&ES	Al % 0.02 not milled 4-acid ICP-MS&ES	As ppm 0.2 not milled 4-acid ICP-MS&ES	Au ppm 0.1 not milled 4-acid ICP-MS&ES	Ba ppm 1 not milled 4-acid ICP-MS&ES	Be ppm 1 not milled 4-acid ICP-MS&ES	Bi ppm 0.04 not milled 4-acid ICP-MS&ES	Ca % 0.02 not milled 4-acid ICP-MS&ES	Cd ppm 0.02 not milled 4-acid ICP-MS&ES	Ce ppm 0.02 not milled 4-acid ICP-MS&ES	Co ppm 0.2 not milled 4-acid ICP-MS&ES	Cr ppm 1 not milled 4-acid ICP-MS&ES	Cs ppm 0.1 not milled 4-acid ICP-MS&ES	Cu ppm 0.02 not milled 4-acid ICP-MS&ES	Dy ppm 0.1 not milled 4-acid ICP-MS&ES	Er ppm 0.1 not milled 4-acid ICP-MS&ES	Eu ppm 0.1 not milled 4-acid ICP-MS&ES	Fe % 0.02 not milled 4-acid ICP-MS&ES	Ga ppm 0.02 not milled 4-acid ICP-MS&ES
46	NB071049	191	6.43	9.9	<0.1	340	2	0.20	0.18	0.66	79.31	14.6	48	4.3	20.55	4.3	2.3	1.3	3.27	14.40
47	NB071050	314	7.50	15.1	<0.1	284	2	0.23	0.07	0.19	68.25	18.7	102	14.7	30.14	3.1	1.7	0.9	4.99	17.90
48	NB071051	125	6.63	6.3	<0.1	250	1	0.14	0.16	0.12	57.84	11.1	73	10.0	13.04	2.9	1.5	1.0	2.90	13.75
49	NB071052	200	5.96	7.9	<0.1	274	1	0.12	0.21	0.12	70.84	11.0	58	2.8	15.12	2.9	1.6	1.0	3.44	14.77
50	NB071054	220	6.19	16.9	<0.1	337	2	0.33	0.24	0.18	81.98	14.1	73	7.0	23.23	4.2	2.3	1.2	3.64	15.43
51	NB071055	60	11.19	2.5	<0.1	83	<1	0.05	1.60	0.22	37.10	23.7	369	0.7	67.33	3.3	1.5	1.1	4.08	15.67
52	NB071056	183	6.97	10.6	<0.1	250	1	0.13	1.01	0.09	60.98	16.8	113	2.7	38.85	3.0	1.6	1.0	4.01	14.21
53	NB072001	248	8.17	13.8	<0.1	447	2	0.25	0.14	0.20	81.95	15.0	52	4.4	15.64	3.8	2.3	1.3	4.07	19.68
54	NB072002	144	7.38	27.0	<0.1	547	2	0.46	0.41	0.19	82.31	13.2	63	3.6	28.56	4.5	2.3	1.2	4.20	20.24
55	NB072003	266	7.29	21.2	<0.1	355	2	0.26	0.49	0.30	70.00	19.7	90	3.6	33.22	3.8	2.1	1.1	4.63	18.49
56	NB072004	214	8.51	28.5	<0.1	336	2	0.56	0.76	0.30	56.27	19.6	94	4.2	32.38	4.4	2.4	0.9	5.58	21.12
57	NB072005	268	7.63	26.3	<0.1	316	2	0.34	0.28	0.30	59.48	19.6	107	5.8	53.52	3.8	2.1	1.1	5.77	20.67
58	NB072006	232	8.14	30.4	<0.1	345	3	0.44	0.27	0.41	71.68	19.6	83	5.7	30.03	4.3	2.7	1.0	4.53	19.13
59	NB072007	135	8.34	7.9	<0.1	489	2	0.19	0.38	0.15	66.15	26.6	138	5.4	27.92	5.1	2.6	1.6	4.98	21.27
60	NB072009	137	7.65	6.0	<0.1	340	1	0.15	0.08	0.08	68.73	23.0	116	4.6	20.81	2.5	1.4	0.7	4.18	15.91
61	NB072010	176	6.04	7.7	<0.1	385	2	0.14	0.25	0.16	57.99	17.3	96	2.4	19.97	3.1	1.6	0.8	3.72	15.94
62	NB072011	223	6.51	5.5	<0.1	311	2	0.16	0.38	0.19	75.74	14.2	58	2.3	17.20	2.9	1.7	0.7	3.49	14.42
63	NB072012	362	8.89	28.4	<0.1	592	5	0.37	0.28	0.32	182.80	10.1	51	8.1	17.07	7.4	4.4	1.2	4.02	32.30
64	NB072013	217	10.99	20.8	<0.1	494	3	0.24	0.39	0.13	174.60	15.2	27	5.1	16.44	5.0	2.4	1.3	3.40	25.29
65	NB072014	157	5.88	6.6	<0.1	340	1	0.15	0.16	0.17	46.32	14.1	41	3.1	21.43	2.1	1.2	0.7	3.10	13.64
66	NB072015	207	12.92	5.0	<0.1	270	2	0.07	1.76	0.13	74.64	27.6	182	2.1	51.12	3.9	1.8	1.4	4.88	19.58
67	NB072016	357	10.85	9.7	<0.1	435	3	0.26	0.24	0.42	223.50	96.6	221	22.2	107.90	12.3	4.8	4.1	6.35	19.71
68	NB072017	236	6.94	10.8	<0.1	391	1	0.10	0.17	0.18	48.93	12.5	79	4.7	18.64	2.6	1.5	0.7	3.19	12.22
69	NB072018	181	7.67	9.4	<0.1	398	2	0.17	0.17	0.21	72.80	15.1	106	5.0	32.09	3.2	1.7	0.9	4.23	18.01
70	NB072019	139	5.52	5.1	<0.1	327	2	0.12	0.20	0.13	51.83	12.4	114	2.8	18.38	2.9	1.5	0.9	3.22	13.77
71	NB072020	158	7.37	16.4	<0.1	288	1	0.16	0.17	0.17	71.19	19.0	126	2.9	30.32	3.0	1.6	1.0	4.04	12.51
72	NB072021	271	6.41	30.1	<0.1	285	2	0.30	0.14	0.13	136.00	11.0	65	3.4	21.11	7.6	3.7	2.3	4.28	13.90
73	NB072022	272	8.21	8.6	<0.1	391	3	0.34	0.07	0.07	58.75	16.1	68	6.8	22.33	3.1	1.9	0.8	4.55	20.64
74	NB072023	228	6.73	8.1	<0.1	290	2	0.21	0.10	0.11	56.36	16.7	54	4.0	17.63	3.0	1.6	0.8	3.28	14.98
75	NB072024	164	7.28	11.5	<0.1	396	2	0.27	0.20	0.18	54.88	14.9	75	3.8	19.94	3.0	1.6	0.9	3.77	18.51
76	NB072026	303	9.08	18.3	<0.1	348	2	0.25	0.09	0.14	77.76	20.1	68	4.6	17.81	4.8	2.6	1.6	7.05	23.77
77	NB072027	286	7.18	9.4	<0.1	323	1	0.21	0.09	0.12	66.53	17.6	71	4.6	24.16	3.0	1.8	0.9	3.89	16.53
78	NB072028	361	7.30	7.2	<0.1	382	2	0.37	0.47	0.12	79.87	9.9	46	3.9	12.54	3.9	2.1	1.0	2.70	17.21
79	NB072029	218	7.13	6.6	<0.1	354	2	0.20	0.15	0.07	63.41	12.5	50	4.6	15.70	2.9	1.9	0.9	3.36	15.64
80	NB072030	148	8.51	11.9	<0.1	271	2	0.33	0.10	0.19	69.37	24.7	74	3.8	14.27	3.5	1.8	1.3	4.68	17.13
81	NB072031	96	8.75	8.9	<0.1	254	2	0.23	0.09	0.14	62.50	13.9	61	3.4	15.91	3.6	1.8	1.2	3.64	12.47
82	NB072032	174	6.04	9.0	<0.1	369	2	0.24	0.11	0.16	63.30	15.4	53	4.0	18.31	3.1	1.8	0.9	3.37	16.09
83	NB072033	167	7.14	11.6	<0.1	385	2	0.24	0.05	0.21	61.90	18.6	71	4.9	22.72	3.1	1.9	1.0	4.23	19.65
84	NB072034	285	7.13	15.0	<0.1	344	2	0.14	0.14	0.15	66.51	11.9	79	4.3	18.73	2.7	1.3	1.0	4.26	14.45
85	NB072035	325	6.93	10.8	<0.1	307	1	0.16	0.11	0.23	65.48	12.4	79	3.5	17.45	2.3	1.3	1.0	3.60	14.02
86	NB072036	306	7.51	22.6	<0.1	250	2	0.22	0.25	0.18	55.59	19.8	104	3.5	19.23	2.5	1.4	0.9	5.18	13.61
87	NB072037	161	5.80	7.6	<0.1	314	1	0.12	0.12	0.23	50.52	12.1	98	3.9	16.19	1.9	1.0	0.8	3.65	15.12
88	NB072038	184	7.47	7.5	<0.1	223	2	0.16	0.10	0.25	44.56	11.1	107	3.7	17.46	2.7	1.3	0.9	5.00	12.87
89	NB072039	160	6.24	5.0	<0.1	279	1	0.09	0.10	0.16	68.60	10.8	91	3.1	16.10	2.4	1.3	1.0	3.09	12.98
90	NB072040	231	7.40	8.2	<0.1	293	1	0.14	0.15	0.18	61.81	10.8	88	4.1	15.55	2.5	1.2	0.9	4.39	14.30

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil 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		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	not milled	not milled	not milled	not 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
46	NB071049	5.4	5.09	0.8	1.58	39.8	44.2	0.4	0.65	575	0.51	0.734	16.29	37.6	30.8	0.029	42.84	9.7	86.7	<0.04
47	NB071050	3.4	4.92	0.6	1.95	31.0	47.2	0.3	0.94	615	0.46	0.366	13.72	27.8	64.6	0.052	19.99	7.1	94.7	<0.04
48	NB071051	3.5	4.16	0.5	1.44	30.1	54.1	0.3	1.00	245	0.25	1.322	10.76	29.2	44.3	0.061	9.69	7.5	79.6	<0.04
49	NB071052	4.2	4.75	0.6	1.39	31.7	48.5	0.3	0.97	286	0.46	1.502	10.77	33.8	48.3	0.063	10.50	8.3	70.6	<0.04
50	NB071054	5.2	5.21	0.8	1.65	38.3	53.2	0.4	0.79	385	1.04	0.819	17.63	37.9	42.7	0.050	20.89	10.1	95.7	<0.04
51	NB071055	2.9	1.20	0.6	0.25	11.0	12.0	0.2	1.30	379	0.73	0.505	3.04	13.3	49.4	0.099	5.96	3.2	11.5	0.05
52	NB071056	4.0	3.79	0.6	1.37	25.7	29.6	0.3	1.30	533	0.62	1.325	10.93	26.1	39.2	0.049	13.39	6.4	54.2	<0.04
53	NB072001	4.5	5.36	0.8	2.34	39.5	48.8	0.4	0.80	622	0.78	1.158	16.78	38.5	35.2	0.052	20.91	9.9	114.7	<0.04
54	NB072002	6.0	5.21	0.8	2.45	37.6	21.0	0.4	1.35	716	1.68	1.482	18.09	37.0	29.1	0.045	36.20	9.7	110.1	<0.04
55	NB072003	4.3	4.00	0.7	2.16	32.3	36.6	0.3	1.50	821	0.81	1.189	17.15	29.8	58.7	0.071	23.12	8.0	91.7	<0.04
56	NB072004	4.4	3.60	0.9	2.29	24.2	23.0	0.3	1.60	733	0.96	1.049	14.51	25.5	45.9	0.179	35.29	6.6	152.9	<0.04
57	NB072005	3.9	4.75	0.7	1.62	28.1	59.6	0.3	1.43	713	2.09	1.059	17.21	26.9	63.8	0.048	43.27	7.0	79.4	<0.04
58	NB072006	4.4	6.26	0.9	1.96	33.3	45.2	0.5	1.15	759	1.37	1.441	20.23	30.2	47.9	0.058	46.60	8.0	110.2	<0.04
59	NB072007	6.4	3.85	1.0	2.47	33.8	63.0	0.4	2.05	717	0.24	1.118	13.46	38.1	111.6	0.081	20.15	9.6	100.3	<0.04
60	NB072009	2.8	3.51	0.5	2.00	27.2	54.6	0.2	1.43	484	0.26	0.893	14.24	23.9	91.4	0.058	16.14	6.2	86.2	<0.04
61	NB072010	3.0	4.62	0.6	1.39	21.3	39.3	0.3	1.15	429	0.53	1.524	15.80	20.9	61.6	0.066	16.62	5.6	57.5	<0.04
62	NB072011	2.4	5.40	0.6	1.57	23.2	29.2	0.3	0.87	322	0.50	1.660	15.39	21.0	43.2	0.038	17.50	5.4	67.3	<0.04
63	NB072012	6.4	7.92	1.4	3.23	32.4	54.4	0.7	1.49	539	2.98	1.720	67.24	38.2	34.4	0.040	47.43	9.0	127.7	<0.04
64	NB072013	6.4	7.27	0.9	2.62	66.0	39.9	0.4	0.58	622	1.01	1.740	24.04	59.8	31.0	0.059	27.59	16.1	128.1	<0.04
65	NB072014	2.6	4.08	0.4	1.47	21.8	34.0	0.2	1.03	254	0.45	1.283	12.09	22.0	54.6	0.068	14.62	5.7	63.5	<0.04
66	NB072015	4.4	3.54	0.7	0.97	22.0	26.6	0.3	2.26	957	0.37	1.244	8.97	26.2	85.7	0.123	8.44	6.4	25.5	<0.04
67	NB072016	14.4	3.44	2.1	1.50	38.7	127.5	0.6	2.16	1195	2.68	0.778	8.36	62.1	260.4	0.196	40.45	14.1	78.6	0.05
68	NB072017	2.6	3.95	0.5	1.46	23.4	37.6	0.3	0.82	284	0.39	1.288	12.01	21.7	68.7	0.049	12.25	5.6	71.7	<0.04
69	NB072018	3.5	4.04	0.6	1.94	27.4	50.5	0.3	1.34	412	0.94	1.260	14.45	26.6	68.7	0.081	15.97	6.9	95.6	<0.04
70	NB072019	3.2	4.10	0.5	1.14	23.5	40.5	0.3	1.13	282	0.35	1.524	12.96	24.6	67.3	0.046	12.84	6.3	53.3	<0.04
71	NB072020	3.5	3.89	0.5	1.36	30.8	40.7	0.3	1.30	358	0.43	1.438	12.19	29.9	105.2	0.132	17.46	7.7	62.0	<0.04
72	NB072021	8.9	4.77	1.3	1.63	43.4	46.9	0.5	0.67	509	0.70	0.911	13.44	53.2	33.7	0.061	27.45	12.5	84.2	<0.04
73	NB072022	3.0	4.81	0.7	2.79	29.6	61.3	0.3	0.95	346	0.47	0.647	16.45	27.3	39.0	0.028	13.64	7.1	140.1	<0.04
74	NB072023	3.1	3.98	0.6	1.86	27.4	44.3	0.3	0.86	444	0.54	0.777	13.37	25.6	36.4	0.026	14.28	6.8	90.3	<0.04
75	NB072024	3.8	4.37	0.6	1.72	27.7	40.1	0.3	0.81	418	0.63	0.947	15.88	26.8	38.2	0.059	22.63	7.1	96.1	<0.04
76	NB072026	5.9	4.70	0.8	1.83	39.5	77.3	0.4	0.89	374	1.35	0.894	17.29	39.2	44.7	0.064	22.12	10.0	116.0	<0.04
77	NB072027	3.6	4.32	0.6	1.88	34.8	53.2	0.3	0.98	497	0.41	1.031	15.97	29.0	45.1	0.024	13.99	7.7	99.2	<0.04
78	NB072028	4.5	5.05	0.8	2.03	33.2	28.1	0.3	0.78	372	0.80	1.612	16.68	32.0	24.9	0.058	19.19	8.3	101.7	<0.04
79	NB072029	3.7	5.25	0.6	2.12	33.0	37.1	0.3	0.78	400	0.43	0.883	16.64	30.0	31.1	0.029	12.91	7.8	107.9	<0.04
80	NB072030	5.0	4.45	0.7	1.32	30.7	57.6	0.3	0.84	1226	1.13	1.063	15.88	33.7	38.1	0.119	18.20	8.7	81.5	0.08
81	NB072031	4.9	4.50	0.7	1.23	31.2	66.5	0.3	0.66	294	0.60	0.862	12.22	30.5	26.5	0.043	14.59	8.1	74.1	<0.04
82	NB072032	3.5	4.96	0.6	1.51	30.7	41.8	0.3	0.78	520	0.43	0.934	17.12	29.7	35.1	0.027	18.17	7.6	83.8	<0.04
83	NB072033	3.6	4.96	0.6	1.61	29.6	50.5	0.4	0.87	683	0.51	0.990	18.12	28.5	38.7	0.045	25.81	7.5	90.1	<0.04
84	NB072034	3.7	3.70	0.5	1.64	34.2	52.5	0.2	0.97	251	0.69	1.130	9.33	31.8	48.3	0.112	14.78	8.2	80.6	<0.04
85	NB072035	3.7	4.36	0.4	1.32	32.0	49.2	0.3	0.97	270	0.34	1.386	10.01	32.2	50.7	0.115	15.08	8.4	71.1	<0.04
86	NB072036	3.5	3.52	0.4	1.46	25.8	46.1	0.2	1.01	513	0.99	0.885	6.74	25.0	52.3	0.168	21.57	6.3	67.7	0.05
87	NB072037	3.0	3.60	0.4	1.33	25.4	50.6	0.2	0.99	220	0.39	1.372	10.14	25.5	57.4	0.058	10.22	6.8	69.0	<0.04
88	NB072038	3.2	3.08	0.5	0.85	22.8	53.4	0.2	0.64	300	0.63	0.607	7.54	23.4	41.5	0.188	15.60	6.2	54.9	0.06
89	NB072039	3.7	4.11	0.4	1.23	36.9	44.7	0.3	0.91	146	0.41	1.341	10.16	34.3	59.6	0.077	9.14	9.1	67.4	<0.04
90	NB072040	3.4	3.73	0.5	1.12	31.8	51.2	0.2	0.77	242	0.53	1.100	10.32	30.2	43.5	0.145	13.17	7.7	65.3	<0.04



C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil 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		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	not milled	not 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
46	NB071049	0.81	9.4	6.6	3.1	65	0.8	0.7	12.5	0.535	0.4	3.2	71	1.4	21.1	2.6	161.8	179.2
47	NB071050	2.57	13.0	4.3	2.5	47	0.7	0.5	10.6	0.578	0.3	2.4	102	1.9	15.2	2.0	88.4	175.0
48	NB071051	0.68	8.3	5.0	2.6	64	0.5	0.5	9.0	0.360	0.3	2.0	65	1.0	13.4	1.8	57.4	141.8
49	NB071052	0.37	8.1	5.5	2.4	68	0.5	0.6	8.5	0.388	0.3	2.1	71	0.7	14.9	1.7	66.2	166.7
50	NB071054	2.56	9.8	6.5	3.1	61	1.0	0.7	13.1	0.532	0.4	3.3	86	2.4	20.7	2.5	75.8	180.3
51	NB071055	0.09	22.8	2.8	1.0	54	0.1	0.5	2.6	0.212	0.2	0.7	85	0.2	15.2	1.5	28.2	41.7
52	NB071056	0.59	14.8	4.7	1.7	85	0.6	0.5	8.7	0.509	0.3	1.9	106	1.0	15.5	1.8	52.5	138.5
53	NB072001	0.93	11.0	5.9	3.4	69	1.0	0.7	12.5	0.512	0.4	3.2	90	1.8	18.5	2.5	77.7	179.7
54	NB072002	1.64	14.8	7.1	4.4	70	1.0	0.8	14.0	0.510	0.4	3.9	96	2.5	21.0	2.5	86.3	177.4
55	NB072003	2.48	14.1	5.2	3.2	88	0.9	0.6	10.0	0.700	0.4	2.7	128	1.6	18.6	2.1	99.4	142.6
56	NB072004	1.67	16.2	5.0	4.9	68	0.7	0.7	10.4	0.651	0.4	3.5	137	2.0	22.2	2.4	139.6	137.7
57	NB072005	1.45	12.7	4.6	4.6	92	0.8	0.6	10.4	0.781	0.3	4.0	147	1.5	18.1	2.3	115.8	177.6
58	NB072006	1.46	11.3	5.1	3.5	88	1.2	0.7	19.5	0.623	0.4	4.4	101	3.2	22.8	2.9	116.9	210.5
59	NB072007	0.40	17.8	6.8	2.6	66	0.7	0.9	9.8	0.492	0.5	2.3	106	0.9	26.3	2.9	87.6	133.8
60	NB072009	0.36	11.6	3.6	1.7	71	0.6	0.4	8.4	0.558	0.2	1.9	94	0.8	12.0	1.6	73.4	142.7
61	NB072010	0.94	8.7	3.5	2.2	118	0.8	0.5	7.3	0.625	0.3	2.1	83	0.9	12.9	1.7	63.1	163.8
62	NB072011	0.69	8.1	3.5	1.9	123	0.7	0.4	9.0	0.576	0.3	2.3	82	1.0	14.4	1.9	65.9	184.7
63	NB072012	1.13	10.1	7.7	9.1	57	2.9	1.2	20.9	0.461	0.7	4.6	68	3.0	33.7	4.6	207.3	268.7
64	NB072013	0.45	13.4	9.5	5.5	70	1.1	1.0	33.5	0.437	0.4	8.1	58	1.8	22.0	2.6	63.8	228.2
65	NB072014	0.53	8.1	3.6	1.4	76	0.6	0.4	7.1	0.470	0.2	2.1	80	1.0	9.9	1.5	55.3	139.0
66	NB072015	0.30	18.2	4.5	1.1	467	0.4	0.6	4.5	0.680	0.3	1.7	132	0.5	16.9	1.9	54.6	137.3
67	NB072016	1.04	20.7	14.5	2.6	77	0.4	2.2	9.8	0.350	0.7	3.7	107	0.7	46.1	4.5	145.9	118.4
68	NB072017	0.59	8.8	3.8	1.8	85	0.6	0.4	7.1	0.493	0.2	2.0	70	0.9	13.3	1.6	66.6	138.3
69	NB072018	0.89	12.4	4.6	2.8	86	0.7	0.5	8.8	0.536	0.3	2.4	100	1.3	15.2	2.1	78.8	142.5
70	NB072019	0.36	8.0	3.9	1.8	98	0.6	0.5	7.5	0.490	0.3	2.1	71	1.0	12.4	1.6	56.4	142.2
71	NB072020	0.78	11.2	4.8	2.1	90	0.5	0.5	10.3	0.474	0.2	2.1	73	1.0	14.9	1.5	79.9	139.2
72	NB072021	0.91	12.6	10.5	2.5	59	0.7	1.4	14.8	0.482	0.6	2.9	93	1.2	29.2	3.6	52.8	167.8
73	NB072022	0.97	13.5	4.2	3.1	75	1.0	0.5	10.6	0.623	0.3	2.7	105	1.5	15.6	2.2	77.1	159.1
74	NB072023	0.65	9.8	4.5	2.6	54	0.7	0.5	9.4	0.466	0.3	2.2	81	1.3	14.0	1.8	69.6	139.7
75	NB072024	0.81	10.3	4.9	3.6	61	0.9	0.5	11.1	0.510	0.3	2.8	87	1.7	14.9	2.0	116.1	150.8
76	NB072026	0.81	12.7	7.1	3.2	62	1.0	0.8	12.7	0.625	0.4	3.3	126	1.5	20.4	2.7	101.8	163.1
77	NB072027	0.77	11.2	4.8	2.5	73	0.8	0.5	10.4	0.612	0.3	2.4	93	1.2	16.4	2.1	70.2	161.8
78	NB072028	0.50	10.2	5.8	3.7	86	0.9	0.7	14.1	0.482	0.3	3.3	80	2.2	18.1	2.2	66.6	173.2
79	NB072029	0.58	10.5	4.9	3.0	66	1.0	0.6	11.0	0.602	0.3	2.7	82	1.5	19.0	2.2	64.8	178.2
80	NB072030	0.56	10.7	6.0	4.6	50	1.0	0.6	12.9	0.551	0.3	3.6	89	1.6	15.5	2.0	105.1	144.9
81	NB072031	0.60	9.7	5.6	2.2	49	0.7	0.7	16.4	0.409	0.3	2.9	63	1.2	15.3	2.0	51.1	146.7
82	NB072032	0.77	8.4	5.0	2.8	59	1.0	0.6	11.6	0.552	0.3	2.8	76	1.6	15.5	2.1	70.6	168.4
83	NB072033	0.88	10.4	4.6	2.9	59	1.0	0.6	11.8	0.580	0.3	3.0	93	1.6	14.7	2.2	101.8	172.2
84	NB072034	0.59	10.0	5.2	1.8	55	0.4	0.5	8.0	0.386	0.2	1.8	82	0.6	12.0	1.6	74.3	136.0
85	NB072035	0.46	9.5	5.1	2.1	53	0.5	0.4	9.1	0.336	0.2	2.0	74	1.1	11.0	1.6	89.1	147.1
86	NB072036	0.38	9.6	4.3	2.7	46	0.4	0.5	8.1	0.266	0.2	2.0	74	0.6	11.1	1.5	66.1	116.7
87	NB072037	0.45	7.9	4.2	2.1	57	0.5	0.4	7.3	0.374	0.2	2.1	84	0.8	9.1	1.4	94.1	127.0
88	NB072038	0.32	9.4	3.8	3.0	35	0.4	0.5	7.9	0.270	0.2	2.0	72	0.6	11.9	1.4	82.1	106.2
89	NB072039	0.35	7.6	5.2	1.9	57	0.5	0.5	10.3	0.370	0.2	2.3	65	0.9	11.8	1.7	67.9	145.6
90	NB072040	0.39	8.4	4.7	1.9	59	0.5	0.5	9.0	0.357	0.2	2.2	69	0.8	12.1	1.6	69.2	133.9

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 not milled 4-acid ICP-MS&ES	Al % 0.02 not milled 4-acid ICP-MS&ES	As ppm 0.2 not milled 4-acid ICP-MS&ES	Au ppm 0.1 not milled 4-acid ICP-MS&ES	Ba ppm 1 not milled 4-acid ICP-MS&ES	Be ppm 1 not milled 4-acid ICP-MS&ES	Bi ppm 0.04 not milled 4-acid ICP-MS&ES	Ca % 0.02 not milled 4-acid ICP-MS&ES	Cd ppm 0.02 not milled 4-acid ICP-MS&ES	Ce ppm 0.02 not milled 4-acid ICP-MS&ES	Co ppm 0.2 not milled 4-acid ICP-MS&ES	Cr ppm 1 not milled 4-acid ICP-MS&ES	Cs ppm 0.1 not milled 4-acid ICP-MS&ES	Cu ppm 0.02 not milled 4-acid ICP-MS&ES	Dy ppm 0.1 not milled 4-acid ICP-MS&ES	Er ppm 0.1 not milled 4-acid ICP-MS&ES	Eu ppm 0.1 not milled 4-acid ICP-MS&ES	Fe % 0.02 not milled 4-acid ICP-MS&ES	Ga ppm 0.02 not milled 4-acid ICP-MS&ES
91	NB072041	294	6.22	5.3	<0.1	489	1	0.14	0.21	0.14	61.49	4.6	77	4.4	9.98	2.5	1.7	0.9	2.73	20.87
92	NB072042	263	5.71	7.9	<0.1	367	1	0.11	0.18	0.19	70.05	14.1	78	3.2	20.53	3.3	1.6	1.3	3.28	15.10
93	NB072043	218	6.02	6.5	<0.1	322	1	0.15	0.23	0.18	74.55	10.4	78	3.4	15.06	2.9	1.6	1.0	3.50	15.45
94	NB072044	296	7.60	7.4	<0.1	362	2	0.23	0.08	0.29	83.05	16.0	63	4.8	17.08	3.7	2.1	1.2	4.31	17.78
95	NB072045	116	7.07	3.6	<0.1	353	2	0.17	0.13	0.21	84.54	14.1	56	4.1	13.50	3.5	1.9	1.2	3.07	15.68
96	NB072046	232	7.92	10.3	<0.1	404	3	0.27	0.15	0.07	75.14	18.7	59	5.3	26.48	3.5	2.0	1.2	4.18	19.22
97	NB072047	158	6.29	8.2	<0.1	336	2	0.18	0.07	0.15	61.83	14.4	56	4.3	21.18	3.5	1.9	1.0	3.57	16.75
98	NB072048	312	6.42	9.9	<0.1	319	2	0.20	0.13	0.22	70.40	13.2	47	3.7	16.28	3.0	1.7	0.9	3.03	14.88
99	NB072050	143	8.66	9.6	<0.1	387	2	0.25	0.09	0.12	71.52	18.7	66	6.4	20.88	3.4	2.0	1.0	4.97	20.34
100	NB072051	163	8.04	10.0	<0.1	358	2	0.23	0.08	0.37	65.57	16.8	64	6.1	20.20	3.2	1.8	1.0	4.24	18.65
101	NB072052	206	6.36	7.5	<0.1	319	2	0.21	0.06	0.21	69.19	16.2	56	4.9	23.79	3.6	2.0	1.1	3.63	16.73
102	NB072053	273	6.99	6.3	<0.1	255	2	0.16	0.45	0.17	65.60	11.7	66	2.0	15.33	3.0	1.7	0.9	3.22	12.38
103	NB072054	168	6.40	5.5	<0.1	332	1	0.12	0.19	0.15	79.41	11.7	61	2.8	16.49	2.8	1.5	1.3	3.41	15.46
104	NB072055	201	8.37	8.3	<0.1	268	2	0.12	0.19	0.18	52.36	12.6	89	3.6	19.56	2.3	1.4	0.8	3.79	12.21
105	NB072056	265	6.92	8.7	<0.1	304	1	0.13	0.10	0.10	53.36	14.4	103	3.4	18.55	2.1	1.3	0.7	4.03	15.67
106	NB072057	125	7.09	7.2	<0.1	251	1	0.12	0.09	0.19	37.51	11.1	130	2.5	19.66	1.8	1.0	0.7	4.28	13.01
107	NB072058	164	8.45	10.0	<0.1	452	2	0.17	0.10	0.11	51.39	15.1	132	6.5	24.56	2.7	1.5	0.6	4.37	21.81
108	NB072059	214	8.02	10.5	<0.1	320	2	0.13	0.16	0.16	51.88	13.6	100	3.4	22.91	2.4	1.3	0.8	4.05	13.22
109	NB072060	268	7.71	9.7	<0.1	321	2	0.14	0.11	0.12	72.08	12.5	94	5.0	17.90	2.7	1.7	1.0	3.87	14.74
110	NB072061	122	7.68	10.4	<0.1	501	3	0.27	0.38	0.15	60.23	14.7	85	3.2	35.82	3.8	1.9	1.1	4.66	21.05
111	NB072062	208	7.45	3.4	<0.1	420	2	0.30	1.21	0.18	97.25	14.6	69	4.1	17.43	5.9	2.9	1.7	3.56	16.52
112	NB072063	217	6.64	14.6	<0.1	407	3	0.47	0.47	0.30	78.12	8.9	58	3.8	15.46	3.8	1.9	0.9	3.18	17.15
113	NB072064	120	6.19	10.7	<0.1	299	2	0.27	0.16	0.20	55.11	15.4	72	4.4	20.91	3.2	1.9	0.9	3.75	16.60
114	NB072065	226	7.43	8.1	<0.1	365	2	0.29	0.26	0.16	62.82	11.2	56	4.0	10.51	3.3	1.9	1.0	3.68	16.42
115	NB072066	262	8.14	13.5	<0.1	305	2	1.04	0.30	0.14	65.12	15.2	83	7.0	21.84	4.1	2.0	1.0	4.36	19.22
116	NS071001	279	6.70	12.3	<0.1	340	2	0.24	0.08	0.38	74.14	15.3	52	6.3	27.05	3.8	2.1	1.1	3.78	17.12
117	NS071002	262	7.95	16.1	<0.1	427	2	0.38	0.06	0.16	71.87	18.0	74	8.7	27.71	3.7	2.1	1.1	4.66	21.00
118	NS071003	212	7.06	12.4	<0.1	329	1	0.30	0.08	0.29	73.99	16.5	65	6.0	29.86	3.6	2.0	1.1	3.99	17.71
119	NS071004	153	6.66	10.2	<0.1	461	2	0.23	0.08	0.10	67.63	15.1	53	5.9	19.74	3.8	1.9	1.4	3.41	18.21
120	NS071005	246	7.87	17.0	<0.1	618	3	0.35	0.39	0.17	77.23	19.1	59	6.9	33.43	4.5	2.3	1.3	4.23	21.84
121	NS071006	176	8.07	11.4	<0.1	603	3	0.30	0.55	0.24	82.17	19.6	68	7.3	31.91	4.8	2.5	1.5	4.39	20.87
122	NS071007	179	11.10	13.2	<0.1	759	4	0.35	0.07	0.08	82.20	21.1	77	11.1	38.62	3.2	1.6	1.4	4.59	30.87
123	NS071008																			
124	NS071009	116	7.16	13.8	<0.1	125	6	2.16	0.18	0.14	32.69	2.4	17	9.1	8.17	2.2	1.0	0.3	2.00	19.48
125	NS071010	151	7.75	11.2	<0.1	451	2	0.27	0.22	0.12	70.73	15.3	65	6.8	29.52	3.4	1.8	1.1	3.92	20.35
126	NS071011	219	6.30	6.0	<0.1	345	1	0.19	0.27	0.09	72.04	13.4	54	3.7	21.44	3.1	1.7	0.9	2.80	14.19
127	NS071012	275	7.43	9.2	<0.1	516	2	0.39	0.84	0.25	160.80	11.6	48	11.9	13.27	6.1	2.6	1.4	3.18	17.29
128	NS071013	291	7.84	9.8	<0.1	362	2	0.27	0.06	0.10	72.36	16.0	66	6.2	15.74	3.7	2.2	1.1	4.08	20.18
129	NS071014	257	6.97	10.0	<0.1	298	1	0.24	0.14	0.16	74.46	12.1	50	4.9	15.22	3.3	1.9	0.9	3.22	14.39
130	NS071015	431	7.56	10.0	<0.1	396	3	0.33	0.16	0.18	82.94	13.4	55	14.2	19.33	3.7	2.0	1.0	3.41	19.25
131	NS071016	183	9.59	15.2	<0.1	395	3	0.30	0.11	0.10	69.82	18.3	87	6.7	34.81	3.9	2.2	1.2	5.21	23.11
132	NS071017	231	6.76	15.0	<0.1	377	1	0.28	0.20	0.13	77.84	19.0	57	7.7	35.25	2.7	1.5	1.1	3.87	15.55
133	NS071019	259	7.12	81.1	<0.1	312	3	0.41	0.37	0.07	71.61	6.1	21	4.7	18.00	2.5	1.2	0.6	1.97	13.88
134	NS071020	247	5.79	4.8	<0.1	313	3	0.33	0.49	0.15	98.89	4.4	16	4.9	6.16	3.6	1.6	0.8	1.33	13.35
135	NS071021	239	6.72	12.3	<0.1	388	3	0.31	0.44	0.45	127.50	13.2	37	7.9	24.41	6.2	2.5	1.1	3.40	16.27

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Gd ppm 0.1 not milled 4-acid ICP-MS&ES	Hf ppm 0.02 not milled 4-acid ICP-MS&ES	Ho ppm 0.1 not milled 4-acid ICP-MS&ES	K % 0.02 not milled 4-acid ICP-MS&ES	La ppm 0.1 not milled 4-acid ICP-MS&ES	Li ppm 0.1 not milled 4-acid ICP-MS&ES	Lu ppm 0.1 not milled 4-acid ICP-MS&ES	Mg % 0.02 not milled 4-acid ICP-MS&ES	Mn ppm 2 not milled 4-acid ICP-MS&ES	Mo ppm 0.05 not milled 4-acid ICP-MS&ES	Na % 0.002 not milled 4-acid ICP-MS&ES	Nb ppm 0.04 not milled 4-acid ICP-MS&ES	Nd ppm 0.1 not milled 4-acid ICP-MS&ES	Ni ppm 0.1 not milled 4-acid ICP-MS&ES	P % 0.001 not milled 4-acid ICP-MS&ES	Pb ppm 0.02 not milled 4-acid ICP-MS&ES	Pr ppm 0.1 not milled 4-acid ICP-MS&ES	Rb ppm 0.1 not milled 4-acid ICP-MS&ES	S % 0.04 not milled 4-acid ICP-MS&ES
91	NB072041	3.3	5.05	0.5	2.39	31.7	17.4	0.3	0.51	152	0.41	1.479	14.45	28.1	18.9	0.093	10.03	7.3	143.4	<0.04
92	NB072042	4.5	4.55	0.7	1.35	29.5	46.7	0.3	1.00	304	0.36	1.460	12.01	33.3	55.5	0.061	16.09	8.2	69.2	<0.04
93	NB072043	3.6	4.18	0.6	1.44	33.3	54.3	0.3	1.05	238	0.66	1.306	11.53	32.4	44.6	0.047	10.50	8.3	82.5	<0.04
94	NB072044	5.0	5.85	0.7	1.92	40.9	58.1	0.4	0.94	455	0.41	1.148	18.66	39.2	36.8	0.081	14.00	10.0	104.7	<0.04
95	NB072045	4.4	5.40	0.6	1.55	40.0	48.0	0.4	0.70	374	0.24	1.393	19.05	38.1	27.0	0.035	12.17	9.9	104.3	<0.04
96	NB072046	4.4	4.85	0.7	2.38	38.0	46.3	0.3	0.95	518	0.55	1.103	16.73	35.0	35.0	0.038	24.18	9.4	122.3	<0.04
97	NB072047	3.9	5.07	0.7	1.47	31.7	49.4	0.3	0.77	379	0.57	1.083	20.05	30.6	31.8	0.022	19.53	7.8	84.5	<0.04
98	NB072048	3.8	4.60	0.6	1.95	34.8	42.7	0.3	0.76	408	0.48	1.167	15.52	30.3	28.8	0.021	21.43	8.1	95.2	<0.04
99	NB072050	4.2	4.78	0.7	2.29	38.4	58.3	0.3	1.02	434	0.32	0.827	18.59	33.9	37.5	0.045	24.41	8.9	120.9	<0.04
100	NB072051	3.3	4.58	0.7	1.87	33.4	63.1	0.3	0.85	408	0.66	0.763	17.15	31.0	35.1	0.096	22.69	8.2	112.6	<0.04
101	NB072052	3.8	5.25	0.7	1.64	35.7	53.8	0.3	0.85	416	0.70	0.805	18.51	32.0	36.0	0.033	20.74	8.7	96.7	<0.04
102	NB072053	3.2	4.59	0.6	1.15	28.2	22.4	0.3	0.85	378	0.61	1.315	11.01	25.9	38.6	0.101	11.13	6.7	50.5	<0.04
103	NB072054	4.3	4.32	0.6	1.60	40.2	45.5	0.3	1.14	355	0.27	1.671	11.80	39.9	50.2	0.045	11.38	10.1	70.4	<0.04
104	NB072055	3.1	4.70	0.4	1.25	27.0	56.8	0.3	0.75	193	0.57	1.019	9.50	26.5	55.8	0.111	12.75	6.6	61.8	<0.04
105	NB072056	2.4	3.72	0.4	1.71	24.4	59.3	0.2	1.41	269	0.44	1.379	10.24	23.1	73.5	0.061	10.76	6.0	78.7	<0.04
106	NB072057	2.3	2.81	0.4	0.92	22.8	57.5	0.2	1.05	260	0.90	0.956	7.98	19.3	62.2	0.124	12.30	5.1	59.9	<0.04
107	NB072058	2.9	3.19	0.5	2.60	26.7	63.9	0.2	1.58	310	0.29	0.930	13.04	23.5	82.8	0.044	15.58	6.1	126.6	<0.04
108	NB072059	2.8	3.93	0.5	1.44	25.7	57.7	0.2	0.85	255	0.51	1.233	9.10	24.1	63.2	0.127	13.26	6.2	74.6	<0.04
109	NB072060	3.6	5.11	0.5	1.55	37.2	61.8	0.3	0.76	191	0.53	1.358	13.07	34.3	57.2	0.079	13.11	9.3	86.7	<0.04
110	NB072061	4.3	3.18	0.7	1.67	27.4	20.1	0.3	1.03	570	1.34	1.033	20.49	26.3	41.0	0.081	16.87	6.9	86.7	<0.04
111	NB072062	7.4	5.16	1.1	1.24	50.1	26.2	0.4	1.18	605	0.77	1.660	17.36	48.8	30.6	0.119	18.15	12.4	62.9	<0.04
112	NB072063	4.0	5.77	0.7	1.75	31.5	23.9	0.4	0.68	381	0.84	1.540	19.29	29.8	24.3	0.071	26.55	7.8	91.2	<0.04
113	NB072064	3.2	4.83	0.6	1.33	28.0	45.4	0.3	0.70	375	0.62	0.693	15.57	27.2	32.7	0.029	17.89	7.0	87.2	<0.04
114	NB072065	4.7	4.45	0.6	1.90	32.5	57.0	0.3	0.74	496	0.47	1.060	14.48	29.0	30.5	0.065	14.74	7.7	108.6	<0.04
115	NB072066	4.6	4.01	0.7	1.94	31.9	63.9	0.3	0.95	775	1.54	0.958	15.84	32.5	39.0	0.087	15.47	8.0	138.2	<0.04
116	NS071001	4.3	4.99	0.7	2.15	38.5	58.6	0.4	0.77	611	0.54	0.807	15.17	35.1	32.8	0.040	26.18	9.5	101.7	<0.04
117	NS071002	4.2	4.76	0.7	2.08	35.8	80.0	0.4	0.53	345	1.34	0.371	15.77	35.6	45.7	0.047	20.37	8.9	113.4	<0.04
118	NS071003	4.1	4.66	0.7	1.73	37.1	70.4	0.4	0.65	875	0.75	0.515	13.24	33.8	36.4	0.021	31.83	8.8	100.8	<0.04
119	NS071004	5.1	4.47	0.7	1.67	34.3	75.1	0.3	0.72	561	0.33	0.995	14.14	36.3	33.6	0.025	23.38	9.2	93.9	<0.04
120	NS071005	5.8	4.53	0.8	2.60	38.5	85.8	0.4	1.14	1460	1.85	0.573	15.07	39.2	40.2	0.051	30.47	9.7	110.4	<0.04
121	NS071006	6.2	4.33	0.9	2.50	43.3	73.2	0.4	1.07	1068	0.60	0.950	16.64	43.5	37.4	0.068	28.53	10.9	126.2	<0.04
122	NS071007	5.4	4.23	0.5	2.64	36.8	113.8	0.3	0.83	2072	0.50	0.547	13.22	40.3	47.6	0.047	17.90	10.1	143.2	<0.04
123	NS071008																			
124	NS071009	2.4	4.36	0.4	1.36	13.9	92.9	0.2	0.15	360	0.51	1.610	16.20	17.7	4.6	0.312	24.98	4.7	123.4	0.07
125	NS071010	4.0	4.51	0.7	1.95	37.9	72.6	0.3	0.81	635	0.69	0.625	16.08	34.1	34.3	0.030	24.73	8.9	110.6	<0.04
126	NS071011	4.0	4.67	0.6	2.20	34.3	41.3	0.3	0.81	622	0.53	1.131	13.13	30.8	29.0	0.054	14.94	8.0	78.3	<0.04
127	NS071012	8.8	6.31	1.0	2.60	64.6	42.9	0.4	0.92	907	1.09	1.673	16.72	62.3	22.6	0.097	33.93	15.9	119.0	<0.04
128	NS071013	4.6	5.21	0.8	2.61	35.9	64.9	0.4	0.88	249	0.81	0.909	15.43	32.6	42.2	0.033	9.74	8.8	117.0	<0.04
129	NS071014	3.4	4.80	0.7	1.88	31.6	61.6	0.3	0.66	694	0.75	1.141	14.46	29.9	29.2	0.035	22.31	7.3	98.6	<0.04
130	NS071015	4.5	5.14	0.7	2.75	37.2	132.2	0.4	0.76	793	0.74	1.211	17.55	36.2	34.3	0.030	30.84	9.6	149.7	<0.04
131	NS071016	4.4	3.42	0.8	2.30	35.3	84.0	0.4	0.82	495	1.03	0.799	14.11	35.4	44.1	0.062	25.27	8.7	122.1	<0.04
132	NS071017	4.1	4.56	0.5	1.67	36.5	64.1	0.3	0.46	747	0.95	0.781	13.66	36.6	32.5	0.057	14.91	9.1	87.3	<0.04
133	NS071019	3.3	3.80	0.4	2.40	22.1	42.4	0.2	0.31	448	0.73	1.711	10.10	22.7	13.6	0.097	48.95	5.8	112.3	0.05
134	NS071020	6.5	6.00	0.6	2.18	46.4	41.7	0.2	0.29	334	0.39	1.794	11.45	48.9	8.4	0.086	20.13	12.4	108.5	<0.04
135	NS071021	9.5	5.65	1.0	2.20	60.3	84.3	0.4	0.72	1504	0.60	0.990	15.70	65.4	24.3	0.114	25.98	15.4	110.3	<0.04

C-horizon  
<63 um 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		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	not milled	not 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
91	NB072041	0.46	11.1	4.2	3.1	90	0.7	0.5	8.4	0.600	0.3	2.6	105	1.2	14.7	1.9	38.2	183.9
92	NB072042	0.42	8.3	5.6	1.8	71	0.6	0.6	8.1	0.400	0.3	2.2	74	0.8	14.8	2.0	81.0	163.3
93	NB072043	0.40	7.5	4.9	2.0	79	0.6	0.5	8.9	0.390	0.2	2.4	70	1.0	14.3	1.9	75.9	146.8
94	NB072044	0.64	11.1	6.3	3.6	63	1.0	0.7	13.4	0.687	0.3	3.0	94	1.5	18.8	2.4	134.8	208.1
95	NB072045	0.54	9.3	6.4	3.0	71	1.0	0.6	12.1	0.597	0.3	2.8	69	1.6	17.0	2.2	65.3	182.2
96	NB072046	0.81	13.1	5.9	3.2	64	0.9	0.7	12.0	0.595	0.3	3.3	99	1.2	19.6	2.2	73.3	165.6
97	NB072047	0.73	9.3	5.0	2.8	55	1.1	0.5	11.1	0.677	0.3	3.0	81	1.5	16.2	2.2	70.7	175.5
98	NB072048	0.80	8.8	5.1	2.4	65	0.8	0.5	11.5	0.557	0.3	2.7	74	1.3	14.8	2.0	65.4	158.0
99	NB072050	0.85	12.1	5.3	3.2	56	1.0	0.5	11.7	0.625	0.4	2.8	98	1.4	17.9	2.3	85.5	164.1
100	NB072051	0.81	10.5	5.1	3.0	52	0.9	0.5	10.1	0.531	0.3	2.6	94	1.5	16.8	2.2	120.4	154.8
101	NB072052	0.78	9.2	5.3	2.7	51	0.9	0.6	11.4	0.605	0.3	2.9	79	1.5	16.9	2.2	85.0	177.8
102	NB072053	0.40	9.5	4.5	1.9	87	0.6	0.5	8.6	0.540	0.3	2.2	73	1.1	15.9	1.9	86.5	156.5
103	NB072054	0.34	8.9	6.1	1.7	73	0.6	0.5	10.0	0.438	0.2	2.0	72	0.8	14.2	1.8	70.2	149.6
104	NB072055	0.50	9.8	4.3	1.8	59	0.5	0.4	8.8	0.388	0.3	2.1	66	0.8	11.8	1.6	88.8	162.6
105	NB072056	0.41	9.7	3.8	2.1	66	0.5	0.4	7.6	0.415	0.2	1.9	88	0.8	10.7	1.3	88.8	127.1
106	NB072057	0.58	8.4	3.1	2.6	55	0.4	0.3	6.6	0.301	0.2	1.8	65	0.6	8.4	1.1	96.9	99.3
107	NB072058	0.52	14.1	3.6	2.6	67	0.6	0.4	8.3	0.507	0.3	2.1	119	1.0	12.1	1.6	88.4	123.7
108	NB072059	0.42	9.9	4.1	2.0	64	0.5	0.4	7.8	0.376	0.2	2.1	75	0.7	11.7	1.5	111.1	149.8
109	NB072060	0.77	10.1	5.3	2.1	68	0.7	0.5	10.8	0.538	0.3	2.8	86	1.1	14.2	2.0	87.9	189.5
110	NB072061	0.39	13.1	4.7	3.5	104	1.1	0.7	12.3	0.696	0.3	3.2	113	2.4	17.0	1.9	103.3	110.6
111	NB072062	0.37	13.4	8.4	3.5	137	1.0	1.0	16.9	0.598	0.4	3.7	91	2.0	28.2	2.8	56.1	177.2
112	NB072063	0.62	9.7	5.4	4.6	84	1.3	0.7	15.5	0.544	0.3	4.0	72	3.0	18.3	2.3	83.8	186.9
113	NB072064	0.78	8.9	4.2	2.9	52	0.8	0.5	11.2	0.502	0.3	2.7	77	1.6	15.1	2.1	72.5	163.8
114	NB072065	0.49	10.3	5.3	3.8	68	0.9	0.5	11.0	0.501	0.3	2.7	82	1.6	16.3	1.9	77.0	154.3
115	NB072066	0.73	11.8	5.8	6.7	63	1.3	0.7	18.6	0.462	0.3	5.0	87	3.0	18.1	2.0	92.4	136.7
116	NS071001	0.90	10.9	6.2	2.9	68	0.9	0.7	11.5	0.484	0.3	2.8	85	1.4	18.5	2.3	102.9	162.1
117	NS071002	0.87	12.9	5.7	4.4	65	0.8	0.6	12.2	0.526	0.4	3.4	101	1.4	18.2	2.3	76.7	156.1
118	NS071003	0.97	10.2	5.6	2.6	75	0.8	0.6	12.1	0.422	0.3	3.1	82	1.1	17.8	2.2	115.8	160.0
119	NS071004	0.84	10.2	6.5	2.8	96	0.8	0.7	10.5	0.439	0.3	2.4	75	1.3	17.1	2.3	84.0	149.4
120	NS071005	0.98	12.9	6.7	2.9	117	0.8	0.8	11.6	0.472	0.4	3.4	103	1.7	21.3	2.5	80.5	154.2
121	NS071006	0.92	13.3	7.7	3.2	108	0.9	0.9	12.7	0.514	0.4	2.6	91	1.5	24.6	2.8	94.5	144.6
122	NS071007	0.78	14.2	7.0	4.8	193	0.8	0.6	13.3	0.362	0.2	3.2	108	2.1	11.4	1.8	89.0	135.8
123	NS071008																	
124	NS071009	0.20	3.0	3.5	12.8	35	2.3	0.4	10.7	0.234	0.1	12.5	22	5.3	8.1	1.2	53.2	120.8
125	NS071010	0.84	12.2	5.5	2.9	106	0.8	0.6	12.9	0.509	0.3	3.0	86	1.4	17.1	2.0	74.4	154.2
126	NS071011	0.52	8.7	5.2	1.9	98	0.7	0.5	11.5	0.517	0.2	3.0	69	1.1	15.1	1.9	53.3	162.7
127	NS071012	0.35	9.7	11.5	3.6	156	1.4	1.1	33.1	0.459	0.4	7.8	72	1.2	27.1	2.9	72.4	201.0
128	NS071013	0.72	11.8	5.1	3.5	140	0.9	0.6	12.5	0.524	0.4	3.2	93	1.6	19.6	2.5	66.2	169.2
129	NS071014	0.66	8.5	4.8	2.2	108	0.8	0.6	11.5	0.515	0.3	3.1	72	1.5	18.0	2.2	78.8	166.1
130	NS071015	0.52	10.6	6.1	3.2	90	1.0	0.7	16.3	0.518	0.3	4.1	80	1.7	18.6	2.3	131.8	168.8
131	NS071016	0.96	15.7	6.0	3.1	151	0.8	0.6	11.7	0.511	0.3	3.1	110	1.4	19.0	2.2	100.7	120.6
132	NS071017	1.00	10.1	6.0	2.7	94	0.7	0.5	11.5	0.447	0.2	3.0	76	1.1	14.5	1.8	64.2	159.1
133	NS071019	0.25	5.7	4.2	4.2	72	0.8	0.5	10.3	0.324	0.2	2.5	39	1.8	10.9	1.3	137.3	126.5
134	NS071020	0.23	4.4	8.6	3.5	83	1.0	0.8	19.7	0.335	0.2	3.3	29	1.5	15.8	1.5	45.7	182.2
135	NS071021	0.81	12.3	11.6	3.9	82	1.0	1.3	21.7	0.571	0.4	5.6	78	3.0	26.2	2.4	91.8	196.5

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 not milled 4-acid ICP-MS&ES	Al % 0.02 not milled 4-acid ICP-MS&ES	As ppm 0.2 not milled 4-acid ICP-MS&ES	Au ppm 0.1 not milled 4-acid ICP-MS&ES	Ba ppm 1 not milled 4-acid ICP-MS&ES	Be ppm 1 not milled 4-acid ICP-MS&ES	Bi ppm 0.04 not milled 4-acid ICP-MS&ES	Ca % 0.02 not milled 4-acid ICP-MS&ES	Cd ppm 0.02 not milled 4-acid ICP-MS&ES	Ce ppm 0.02 not milled 4-acid ICP-MS&ES	Co ppm 0.2 not milled 4-acid ICP-MS&ES	Cr ppm 1 not milled 4-acid ICP-MS&ES	Cs ppm 0.1 not milled 4-acid ICP-MS&ES	Cu ppm 0.02 not milled 4-acid ICP-MS&ES	Dy ppm 0.1 not milled 4-acid ICP-MS&ES	Er ppm 0.1 not milled 4-acid ICP-MS&ES	Eu ppm 0.1 not milled 4-acid ICP-MS&ES	Fe % 0.02 not milled 4-acid ICP-MS&ES	Ga ppm 0.02 not milled 4-acid ICP-MS&ES
136	NS071022	204	6.36	18.5	<0.1	289	2	1.16	0.24	0.19	53.44	6.8	37	8.4	18.86	2.4	1.1	0.7	2.46	17.46
137	NS071023	193	5.31	7.1	<0.1	355	1	0.24	0.27	0.13	57.25	13.1	43	3.8	18.19	3.1	1.8	0.9	2.84	13.75
138	NS071024	210	9.34	10.0	<0.1	559	3	0.32	0.05	0.11	53.47	14.8	82	9.4	26.65	2.7	1.5	0.8	4.57	25.05
139	NS071025	162	4.87	8.4	<0.1	268	1	0.14	0.19	0.19	46.78	11.4	45	3.2	15.15	2.8	1.5	0.8	2.50	12.15
140	NS071026																			
141	NS071027	566	6.57	20.5	<0.1	330	1	2.03	0.36	0.45	64.08	11.4	45	6.9	110.00	3.5	1.9	1.1	4.64	15.31
142	NS071028	200	5.76	5.5	<0.1	307	1	0.21	0.49	0.16	62.18	9.9	37	3.7	23.07	3.6	1.9	1.0	2.78	12.76
143	NS071029	172	7.54	26.4	<0.1	473	2	0.56	0.10	0.23	87.09	34.5	67	6.2	42.95	4.0	2.3	1.2	5.11	17.46
144	NS071030	147	5.95	3.3	<0.1	405	2	0.21	0.66	0.16	62.26	8.1	37	8.3	13.36	3.5	2.0	0.9	3.15	15.84
145	NS071031	271	7.47	11.8	<0.1	560	3	0.43	0.22	0.27	67.03	17.7	78	6.7	385.60	6.0	2.9	1.9	4.10	21.54
146	NS071032	167	5.81	37.3	<0.1	432	2	0.28	0.14	0.13	64.95	4.5	47	3.9	19.18	2.3	1.1	0.8	4.07	15.37
147	NS071033	167	8.04	12.1	<0.1	477	3	0.27	0.32	0.10	97.41	17.8	59	9.5	25.85	3.4	1.5	1.1	4.16	19.22
148	NS071034	249	7.56	9.6	<0.1	423	2	0.26	0.16	0.11	67.95	14.6	60	5.7	25.14	4.2	2.5	1.3	3.84	17.21
149	NS071036	612	9.80	32.2	<0.1	432	3	0.62	0.11	0.19	76.45	17.6	78	5.8	26.77	3.0	1.5	1.3	8.39	24.89
150	NS071037	169	6.05	8.4	<0.1	294	1	0.16	0.06	0.16	39.73	20.4	105	9.2	11.26	3.0	1.8	0.7	5.34	14.79
151	NS071038	211	5.50	6.3	<0.1	291	2	0.19	0.15	0.21	60.70	15.2	49	4.3	25.54	3.3	1.9	0.9	3.26	14.77
152	NS071039	223	6.91	12.0	<0.1	324	2	0.26	0.11	0.16	58.67	13.4	60	4.8	19.40	2.9	1.8	0.8	3.93	18.44
153	NS071040	195	7.59	11.4	<0.1	486	2	0.28	0.07	0.19	73.71	16.1	50	6.2	26.63	3.1	1.6	1.2	4.31	20.64
154	NS071041	189	7.18	33.1	<0.1	354	2	0.53	0.10	0.13	48.04	4.1	56	8.1	14.75	2.2	0.9	0.9	6.31	20.59
155	NS071042	197	5.83	15.8	<0.1	398	2	0.21	0.22	0.17	64.65	15.2	55	3.3	34.18	3.4	1.7	1.1	3.52	13.91
156	NS071043	224	8.18	29.9	<0.1	451	2	0.38	0.33	0.18	98.01	9.8	77	6.1	28.40	3.3	1.3	1.1	5.18	19.36
157	NS071044	100	8.64	16.1	<0.1	533	2	0.24	0.34	0.10	46.94	9.8	58	6.3	22.53	2.7	1.6	0.6	3.55	20.01
158	NS071045	79	6.72	13.4	<0.1	271	3	0.38	0.83	0.08	68.13	9.7	49	3.7	36.26	2.8	1.1	1.3	2.78	14.97
159	NS071046	91	5.01	2.2	<0.1	264	2	0.11	0.75	0.08	81.97	5.5	34	2.0	7.42	3.4	1.3	1.2	1.65	11.29
160	NS071047	65	5.30	5.9	<0.1	317	1	0.11	0.81	0.06	30.18	7.5	39	1.4	17.74	3.0	1.6	0.7	2.19	11.48
161	NS071048	136	5.90	345.7	<0.1	585	1	0.25	0.64	0.07	57.61	8.7	62	1.8	26.19	2.6	1.5	0.8	3.25	13.13
162	NS071049	447	8.27	26.2	<0.1	416	2	0.23	0.54	0.14	45.46	16.5	93	5.3	56.10	4.0	2.1	1.2	4.28	18.43
163	NS071050	146	6.29	10.2	<0.1	422	2	0.20	0.39	0.17	78.46	14.1	58	4.1	23.43	3.9	2.0	1.1	3.20	15.76
164	NS071052	145	11.02	41.9	<0.1	631	3	0.40	0.07	0.06	65.08	9.1	119	12.1	54.49	4.8	2.0	1.7	6.81	27.83
165	NS071053	147	7.95	15.3	<0.1	549	3	0.27	0.20	0.08	66.68	15.3	56	6.2	24.94	3.1	1.6	1.0	4.09	19.90
166	NS071054	103	9.28	22.2	<0.1	574	3	0.31	0.26	0.16	108.50	18.9	72	8.3	39.33	5.8	2.6	1.6	4.31	23.40
167	NS071055	133	11.20	25.4	<0.1	189	3	0.34	0.27	0.29	54.12	12.0	40	4.2	7.96	5.0	2.1	1.0	4.27	18.93
168	NS071056	189	7.16	7.8	<0.1	384	2	0.20	0.49	0.18	60.88	16.6	56	5.9	40.54	4.3	2.5	1.2	3.86	17.56
169	NS071057	124	7.42	14.3	<0.1	662	2	0.31	0.24	0.29	78.31	17.5	70	6.5	46.26	4.9	2.6	1.6	3.99	18.28
170	PE071001	168	6.71	9.7	<0.1	398	2	0.21	0.07	0.11	87.97	14.4	47	5.1	18.42	3.2	1.5	1.1	3.46	17.65
171	PE071002	153	6.61	9.6	<0.1	331	2	0.17	0.04	0.05	74.74	11.7	44	4.1	14.15	2.7	1.5	0.9	3.12	14.62
172	PE071003	213	7.99	10.9	<0.1	442	3	0.22	0.03	0.07	74.97	13.6	51	5.6	17.15	2.7	1.5	0.9	3.86	19.56
173	PE071004	203	8.04	12.3	<0.1	398	2	0.19	0.03	0.07	63.51	16.0	59	5.2	18.92	2.1	1.2	0.8	4.04	19.36
174	PE071005	138	8.09	10.7	<0.1	441	2	0.20	0.04	0.10	74.79	15.8	60	5.8	18.94	2.4	1.3	0.9	3.84	19.19
175	PE071006	142	7.06	11.9	<0.1	433	3	0.27	0.30	0.28	61.55	20.8	70	5.8	28.88	5.3	2.5	1.4	4.51	20.94
176	PE071007	243	8.00	11.6	<0.1	431	3	0.24	0.19	0.19	78.85	19.7	61	6.6	27.59	4.1	2.2	1.2	4.53	21.99
177	PE071008	296	8.12	13.0	<0.1	365	3	0.22	0.19	0.16	85.67	20.1	72	5.4	21.70	3.9	2.1	1.3	4.80	21.14
178	PE071009	215	7.56	11.5	<0.1	382	2	0.25	0.12	0.17	49.57	22.6	62	6.2	26.92	2.7	1.6	0.7	4.31	20.48

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Gd ppm 0.1 not milled 4-acid ICP-MS&ES	Hf ppm 0.02 not milled 4-acid ICP-MS&ES	Ho ppm 0.1 not milled 4-acid ICP-MS&ES	K % 0.02 not milled 4-acid ICP-MS&ES	La ppm 0.1 not milled 4-acid ICP-MS&ES	Li ppm 0.1 not milled 4-acid ICP-MS&ES	Lu ppm 0.1 not milled 4-acid ICP-MS&ES	Mg % 0.02 not milled 4-acid ICP-MS&ES	Mn ppm 2 not milled 4-acid ICP-MS&ES	Mo ppm 0.05 not milled 4-acid ICP-MS&ES	Na % 0.002 not milled 4-acid ICP-MS&ES	Nb ppm 0.04 not milled 4-acid ICP-MS&ES	Nd ppm 0.1 not milled 4-acid ICP-MS&ES	Ni ppm 0.1 not milled 4-acid ICP-MS&ES	P % 0.001 not milled 4-acid ICP-MS&ES	Pb ppm 0.02 not milled 4-acid ICP-MS&ES	Pr ppm 0.1 not milled 4-acid ICP-MS&ES	Rb ppm 0.1 not milled 4-acid ICP-MS&ES	S % 0.04 not milled 4-acid ICP-MS&ES
136	NS071022	3.1	3.91	0.4	1.58	27.4	86.7	0.2	0.46	579	1.43	1.002	13.34	25.0	15.8	0.087	17.11	6.5	98.3	<0.04
137	NS071023	3.3	4.45	0.6	1.41	26.9	55.5	0.3	0.89	431	0.57	0.916	13.89	26.5	26.9	0.037	18.08	6.6	68.0	<0.04
138	NS071024	2.8	3.75	0.5	3.30	25.6	88.8	0.3	0.84	549	0.86	0.460	12.50	25.0	35.8	0.026	28.28	6.6	142.4	<0.04
139	NS071025	3.1	5.14	0.5	1.26	23.8	48.3	0.3	0.72	313	0.49	0.801	13.14	22.9	22.5	0.021	18.63	5.8	62.6	<0.04
140	NS071026																			
141	NS071027	4.4	3.78	0.6	1.71	28.6	50.1	0.3	0.85	871	0.98	0.633	12.07	27.5	22.7	0.055	107.20	7.2	71.6	<0.04
142	NS071028	4.3	4.85	0.7	1.34	31.6	32.9	0.3	0.72	399	0.73	1.164	12.74	30.4	20.2	0.052	14.26	7.6	68.5	<0.04
143	NS071029	4.6	5.19	0.8	1.84	35.1	61.7	0.4	0.99	1455	1.31	0.740	14.96	33.6	49.1	0.095	24.22	8.8	103.2	<0.04
144	NS071030	3.4	4.01	0.7	1.21	23.7	51.5	0.3	0.68	410	1.55	1.270	10.82	22.8	12.9	0.070	17.25	5.8	89.1	<0.04
145	NS071031	8.0	4.22	1.1	1.89	34.2	75.0	0.4	1.03	741	0.88	0.745	14.41	42.2	43.2	0.049	27.74	10.2	83.7	<0.04
146	NS071032	3.4	3.62	0.4	1.36	32.4	55.3	0.2	0.50	1257	2.84	1.059	12.48	27.6	12.1	0.067	29.87	7.4	69.0	<0.04
147	NS071033	5.4	3.99	0.6	2.15	44.0	84.0	0.3	0.89	1799	0.97	0.929	14.81	41.4	39.5	0.048	25.04	10.3	102.4	<0.04
148	NS071034	5.1	4.08	0.8	2.32	35.6	63.2	0.4	1.01	548	0.91	0.967	16.12	35.4	37.3	0.033	18.90	8.9	101.2	<0.04
149	NS071036	4.3	3.59	0.5	1.77	41.4	76.7	0.3	0.50	1013	1.16	0.647	10.26	36.6	30.0	0.145	21.67	9.3	121.6	0.04
150	NS071037	2.4	3.50	0.6	1.05	19.9	206.1	0.3	1.53	938	0.80	0.912	12.11	19.4	57.6	0.160	10.72	5.1	64.6	<0.04
151	NS071038	3.4	5.20	0.7	1.45	29.9	49.0	0.4	0.91	533	0.35	0.852	17.35	27.6	32.3	0.045	70.43	7.5	79.0	<0.04
152	NS071039	3.2	4.52	0.6	1.86	28.8	78.4	0.3	0.78	403	1.02	0.940	14.16	26.4	33.1	0.045	17.67	7.1	102.7	<0.04
153	NS071040	4.3	4.73	0.5	2.35	35.1	72.0	0.3	1.07	551	0.59	0.921	13.87	37.3	48.0	0.053	18.14	9.8	113.9	<0.04
154	NS071041	3.0	2.89	0.4	1.48	25.0	43.9	0.2	0.25	441	3.46	0.862	9.41	22.4	9.9	0.140	91.63	6.1	82.0	0.06
155	NS071042	4.2	4.48	0.6	1.29	28.8	46.1	0.3	0.59	921	0.75	1.216	14.57	28.8	30.3	0.051	41.07	7.4	66.3	<0.04
156	NS071043	4.3	4.46	0.6	1.82	44.2	71.9	0.2	0.56	689	4.07	1.233	12.00	40.3	25.2	0.086	27.12	10.6	98.2	<0.04
157	NS071044	2.5	2.80	0.6	2.01	13.3	57.1	0.3	0.55	2857	0.70	1.099	13.30	15.0	22.7	0.053	22.37	3.7	109.6	<0.04
158	NS071045	4.6	2.80	0.4	1.37	31.9	45.6	0.2	0.51	533	0.44	1.954	11.51	33.7	23.1	0.063	23.09	8.4	67.1	<0.04
159	NS071046	5.8	2.53	0.6	0.96	43.0	22.4	0.2	0.36	548	0.25	1.800	11.86	41.4	11.1	0.067	16.89	10.8	40.5	<0.04
160	NS071047	3.0	2.09	0.6	1.06	15.7	21.4	0.3	0.63	627	0.21	1.722	11.63	17.0	19.9	0.054	12.19	4.0	45.5	<0.04
161	NS071048	3.2	2.16	0.5	1.52	26.0	28.3	0.2	0.85	649	0.63	1.425	11.85	21.4	22.8	0.060	15.98	5.8	55.9	0.06
162	NS071049	4.5	2.89	0.8	1.71	27.4	48.5	0.3	1.28	649	1.12	1.334	12.07	27.4	58.2	0.096	20.57	6.8	82.2	0.05
163	NS071050	5.7	4.46	0.7	1.63	38.8	52.8	0.3	0.71	552	0.75	1.038	18.33	36.6	33.5	0.046	22.60	9.4	87.9	<0.04
164	NS071052	5.8	3.45	0.8	2.00	26.9	106.8	0.3	0.63	814	7.94	0.947	10.40	39.5	34.7	0.071	36.10	9.3	117.6	0.05
165	NS071053	4.0	3.82	0.6	2.56	31.3	67.9	0.3	0.90	1069	0.67	1.035	14.81	28.5	35.4	0.044	21.69	7.4	116.9	<0.04
166	NS071054	7.4	3.62	1.1	2.45	42.8	88.1	0.4	0.77	2480	0.55	1.181	15.26	46.5	40.1	0.044	24.56	11.9	123.4	<0.04
167	NS071055	5.5	2.04	0.8	1.07	20.9	47.3	0.3	0.25	416	1.15	0.593	9.88	24.9	10.1	0.229	28.72	6.2	49.3	0.1
168	NS071056	5.0	4.34	0.8	1.95	33.3	69.7	0.4	0.87	720	0.60	0.862	13.84	31.8	27.0	0.078	15.28	8.3	92.3	<0.04
169	NS071057	6.6	4.90	0.9	1.91	41.3	65.5	0.4	0.67	994	0.98	0.619	15.85	42.5	33.5	0.033	34.77	10.4	104.9	<0.04
170	PE071001	4.4	4.73	0.6	1.98	45.6	67.0	0.3	0.80	905	0.35	0.556	13.98	42.9	29.0	0.047	14.50	11.0	70.2	<0.04
171	PE071002	3.7	4.12	0.5	3.05	38.5	58.2	0.2	0.72	757	0.39	0.553	12.77	35.9	28.0	0.026	11.49	9.3	92.2	<0.04
172	PE071003	3.3	4.32	0.5	4.25	37.9	70.8	0.3	0.84	917	0.41	0.420	12.69	34.2	33.7	0.027	13.55	9.2	108.6	<0.04
173	PE071004	3.1	3.73	0.4	3.09	31.8	66.4	0.2	0.84	973	0.41	0.234	11.24	29.7	37.7	0.027	14.30	8.0	83.2	<0.04
174	PE071005	3.5	3.92	0.5	3.66	38.5	72.8	0.3	0.85	866	0.50	0.398	12.36	33.0	34.4	0.029	14.65	9.3	108.4	<0.04
175	PE071006	6.0	4.10	0.9	1.80	29.5	79.5	0.4	1.26	1028	0.28	1.035	16.20	37.4	45.6	0.079	26.19	9.0	71.9	<0.04
176	PE071007	5.6	4.75	0.8	2.46	38.7	77.7	0.4	1.34	749	0.28	1.241	16.78	40.3	45.1	0.051	22.90	10.2	109.5	<0.04
177	PE071008	5.0	5.43	0.8	2.46	40.4	68.8	0.3	1.52	938	0.33	1.106	18.55	40.8	43.3	0.052	18.08	10.6	93.6	<0.04
178	PE071009	2.7	4.39	0.5	2.19	23.8	72.3	0.3	1.31	1185	0.32	1.022	16.64	22.7	42.9	0.052	20.56	6.0	95.7	<0.04

C-horizon  
<63 um fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Sb ppm 0.02 not milled 4-acid ICP-MS&ES	Sc ppm 0.1 not milled 4-acid ICP-MS&ES	Sm ppm 0.1 not milled 4-acid ICP-MS&ES	Sn ppm 0.1 not milled 4-acid ICP-MS&ES	Sr ppm 1 not milled 4-acid ICP-MS&ES	Ta ppm 0.1 not milled 4-acid ICP-MS&ES	Tb ppm 0.1 not milled 4-acid ICP-MS&ES	Th ppm 0.1 not milled 4-acid ICP-MS&ES	Ti % 0.001 not milled 4-acid ICP-MS&ES	Tm ppm 0.1 not milled 4-acid ICP-MS&ES	U ppm 0.1 not milled 4-acid ICP-MS&ES	V ppm 1 not milled 4-acid ICP-MS&ES	W ppm 0.1 not milled 4-acid ICP-MS&ES	Y ppm 0.1 not milled 4-acid ICP-MS&ES	Yb ppm 0.1 not milled 4-acid ICP-MS&ES	Zn ppm 0.2 not milled 4-acid ICP-MS&ES	Zr ppm 0.2 not milled 4-acid ICP-MS&ES
136	NS071022	0.36	6.2	4.5	6.4	76	1.0	0.4	9.3	0.395	0.2	5.9	54	4.1	11.5	1.4	134.8	134.3
137	NS071023	0.64	7.3	4.2	1.9	88	0.7	0.6	9.3	0.461	0.3	2.8	69	1.3	15.7	2.1	52.7	153.8
138	NS071024	0.76	14.8	4.4	3.5	115	0.7	0.4	10.0	0.440	0.3	3.0	109	1.4	12.3	1.8	94.7	127.0
139	NS071025	0.61	7.0	3.9	1.7	69	0.7	0.5	8.8	0.479	0.3	2.5	62	1.2	13.4	1.9	97.1	168.2
140	NS071026																	
141	NS071027	1.95	12.6	5.1	3.0	52	0.7	0.6	9.0	0.566	0.3	2.1	98	2.1	16.7	2.1	414.9	135.3
142	NS071028	0.76	9.0	5.1	1.6	122	0.7	0.6	10.2	0.459	0.3	2.6	63	1.3	17.4	2.2	74.9	160.3
143	NS071029	1.11	11.7	6.0	2.8	70	0.8	0.7	12.9	0.476	0.4	3.2	85	1.2	19.7	2.6	89.5	176.7
144	NS071030	0.62	8.3	3.9	2.8	154	0.6	0.6	10.9	0.462	0.3	3.9	79	1.3	18.2	2.4	71.4	134.1
145	NS071031	0.92	12.0	8.1	2.8	109	0.8	1.1	10.8	0.437	0.5	3.0	96	1.4	27.8	3.1	98.8	146.6
146	NS071032	0.75	7.6	4.4	2.2	99	0.7	0.4	11.0	0.416	0.2	2.6	63	1.4	10.2	1.4	49.7	122.9
147	NS071033	0.51	12.0	7.1	3.3	102	0.8	0.7	14.2	0.531	0.3	3.3	89	2.0	16.2	1.8	91.2	140.7
148	NS071034	0.81	11.4	6.3	2.4	127	0.8	0.7	10.3	0.563	0.4	2.9	88	1.6	22.3	2.5	80.4	144.0
149	NS071036	1.07	13.4	6.5	3.8	85	0.6	0.6	13.3	0.352	0.2	3.0	99	1.1	14.4	1.9	204.9	129.8
150	NS071037	0.64	12.2	3.0	2.2	51	0.6	0.5	6.5	0.518	0.3	2.2	100	1.0	14.2	1.9	179.1	129.8
151	NS071038	0.70	9.0	4.5	2.2	58	0.9	0.5	10.4	0.565	0.3	2.6	81	1.2	18.1	2.3	116.2	182.3
152	NS071039	0.69	8.9	4.4	2.8	94	0.8	0.4	9.1	0.456	0.3	3.2	80	1.6	14.1	2.0	120.4	146.9
153	NS071040	0.72	11.6	6.3	2.6	69	0.7	0.5	11.5	0.409	0.3	2.9	105	1.2	13.0	2.1	115.4	167.0
154	NS071041	0.44	6.9	4.1	3.5	62	0.6	0.4	9.5	0.303	0.2	3.9	75	1.4	9.3	1.1	46.9	96.8
155	NS071042	0.71	7.6	5.1	2.2	120	0.8	0.6	11.2	0.459	0.3	2.5	65	1.3	15.7	2.1	83.3	147.9
156	NS071043	0.72	8.9	6.7	3.0	95	0.7	0.6	15.1	0.392	0.3	3.5	75	1.4	13.7	1.5	71.7	149.3
157	NS071044	0.23	11.7	2.8	2.7	179	0.7	0.4	9.9	0.423	0.3	2.2	71	2.1	14.3	1.8	63.2	92.7
158	NS071045	0.05	7.8	5.9	2.7	161	0.8	0.6	12.6	0.478	0.2	2.6	52	1.3	10.9	1.2	44.7	87.9
159	NS071046	0.12	5.6	7.2	1.8	174	0.8	0.7	14.6	0.480	0.2	2.9	35	0.7	14.2	1.4	28.2	88.1
160	NS071047	0.21	7.8	3.1	1.7	181	0.6	0.5	6.1	0.554	0.3	1.3	54	1.1	14.8	1.7	39.4	72.6
161	NS071048	0.55	9.5	3.8	2.0	140	0.6	0.5	8.3	0.493	0.2	1.6	77	1.5	13.8	1.5	46.7	72.6
162	NS071049	0.43	13.8	5.0	2.8	117	0.6	0.6	8.1	0.458	0.3	2.0	97	1.4	20.1	2.0	119.4	96.7
163	NS071050	0.69	8.9	6.1	2.4	92	1.0	0.7	14.1	0.595	0.3	2.9	70	1.5	18.5	2.2	76.5	151.9
164	NS071052	1.29	15.2	7.4	3.3	142	0.6	0.8	17.0	0.341	0.3	4.4	103	1.2	16.4	2.2	82.8	116.2
165	NS071053	0.60	13.0	5.1	3.3	111	0.8	0.5	10.9	0.486	0.3	3.0	90	1.8	15.2	1.7	73.8	130.6
166	NS071054	0.74	13.2	8.5	3.4	108	0.9	1.0	13.2	0.486	0.4	3.2	81	1.9	26.7	2.6	78.3	121.8
167	NS071055	0.21	7.8	5.6	5.3	35	0.6	0.9	12.8	0.311	0.3	4.1	56	2.3	21.7	1.9	86.0	68.2
168	NS071056	0.47	12.4	5.7	2.6	97	0.8	0.7	8.5	0.488	0.4	2.6	139	1.3	24.8	2.6	66.2	151.9
169	NS071057	0.95	12.1	7.8	2.8	99	0.8	0.8	11.9	0.500	0.4	3.0	76	1.4	26.5	2.9	97.3	169.1
170	PE071001	0.83	9.2	6.7	2.5	91	0.8	0.6	13.3	0.474	0.3	2.7	64	1.3	14.0	2.0	64.8	156.8
171	PE071002	0.79	8.2	5.4	2.1	86	0.7	0.5	11.1	0.476	0.3	2.2	62	1.0	12.9	1.7	58.6	145.1
172	PE071003	0.94	10.0	5.3	2.7	79	0.8	0.5	11.5	0.485	0.2	2.5	74	1.3	11.8	1.7	66.0	139.8
173	PE071004	1.02	9.8	4.6	2.4	85	0.7	0.4	9.2	0.453	0.2	2.0	75	1.1	9.9	1.3	70.6	129.1
174	PE071005	0.93	9.9	5.3	2.8	88	0.7	0.5	11.4	0.454	0.2	2.4	70	1.1	11.0	1.6	64.2	126.6
175	PE071006	0.97	11.8	6.9	3.3	71	0.9	0.9	10.1	0.564	0.4	2.8	104	1.4	22.8	2.6	90.7	142.3
176	PE071007	0.89	14.4	6.6	3.0	79	0.9	0.7	12.2	0.588	0.4	3.0	108	1.4	21.1	2.3	99.8	162.5
177	PE071008	0.90	13.4	7.0	3.3	82	1.1	0.8	14.2	0.761	0.3	3.5	105	1.3	20.2	2.4	89.3	186.1
178	PE071009	0.85	12.0	3.7	3.1	74	0.9	0.5	8.9	0.570	0.3	2.5	102	1.4	12.3	1.9	100.0	151.0