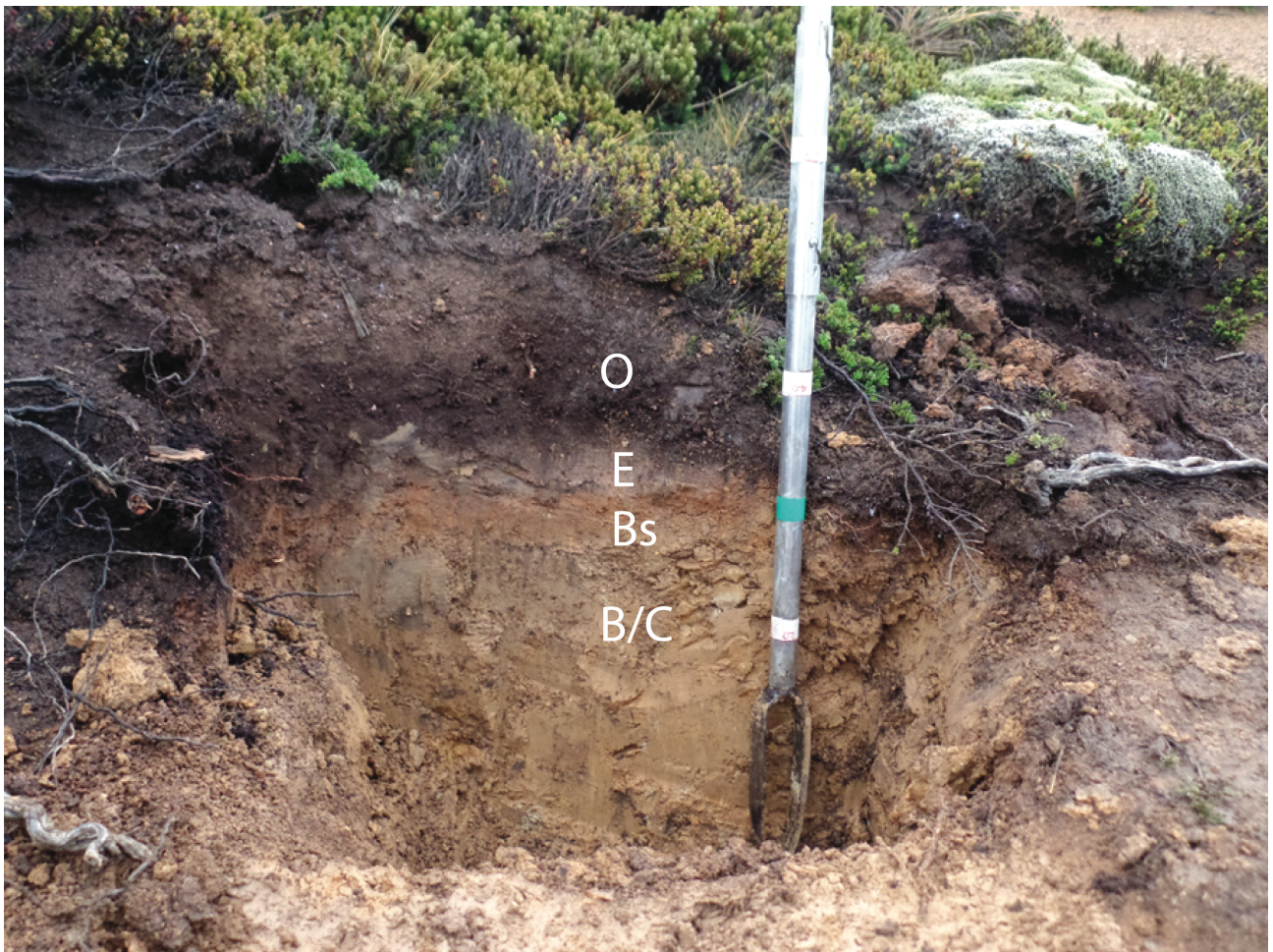**Appendix information**

Slow weathering in a sandstone-derived Podzol (Falkland Islands) resulting in high content of a
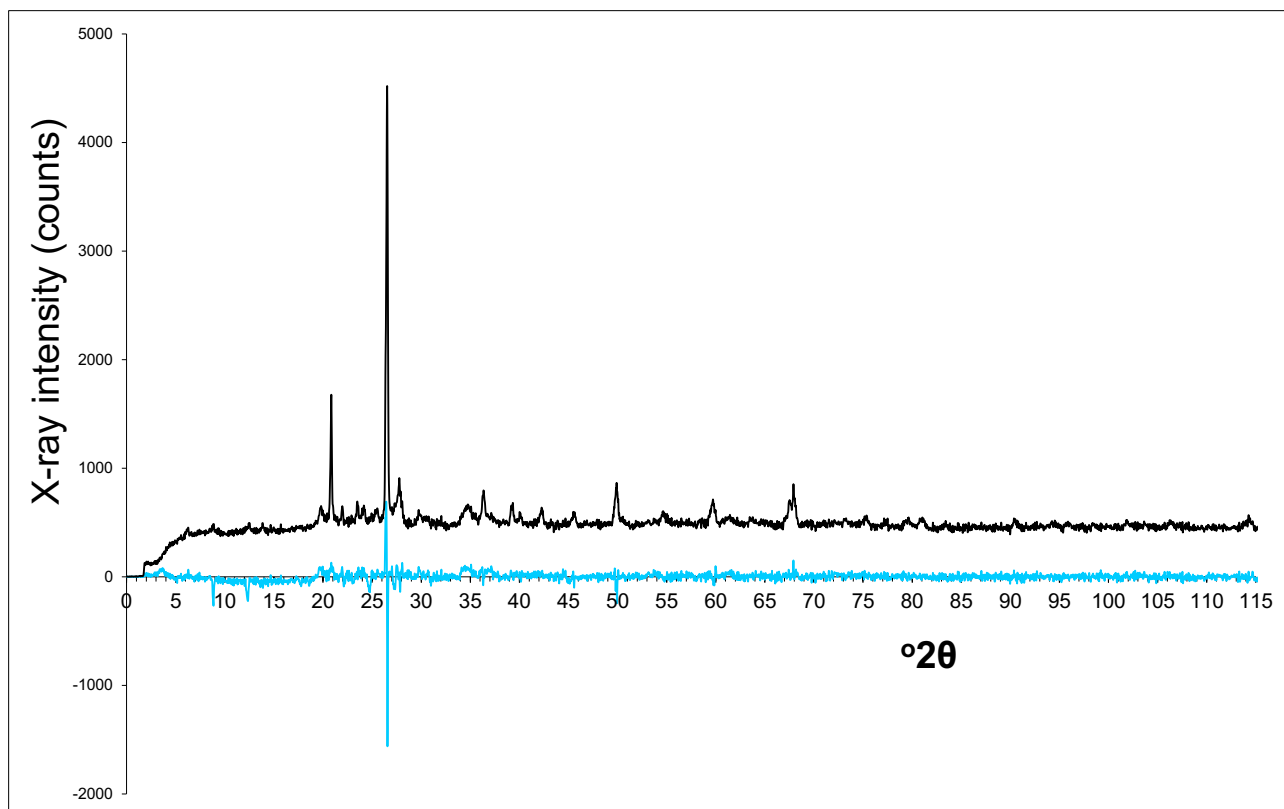
non-crystalline silicate

Javier Cuadros, Mara Cesarano, William Dubbin, Stuart W. Smith, Alexandra Davey, Baruch Spiro, Rodney G.O. Burton, Anne D. Jungblut

Figure A.1. Representative, complete Podzol near the study site showing, from the top, a peaty O horizon, a thin leached E horizon, the spodic B horizon (Bs), and the B/S horizon grading into the underlying rock. In this profile there is a weakly developed iron pan layer below the E horizon.

Figure A.2. Surface of the sampled soil, probably corresponding to the B/C horizon of the profile in

Figure A.1. The length of each side marked by the rope is 2 m.

Figure A.3. Example of curve-fitting result for the quantification of the several mineral phases in the soil using X-ray diffraction. Black: experimental patterns of soil sample II C Bottom. Blue: residual line after subtraction of all mineral phases.

Table A.1. SEM-EDS analyses in atomic %, normalized to 100 atoms. AO analyses correspond to those after ammonium oxalate extraction. Keys to analyses (Mineral / Map) are as in the article. "Type of analysis" indicates point analysis (P) or analysis of area (A).

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Map			3.9	1.5	18.8	49.7	0.2	0.2	0.8	2.9	0.4	21.0	0.7	0.0
Map			2.6	1.8	18.8	51.4	0.2	0.2	1.2	3.3	0.5	19.2	0.8	0.0
Map			2.4	1.5	14.3	47.6	0.4	0.3	1.3	3.6	0.7	27.2	0.8	0.0
Altered Qz		P	0.3	1.2	2.9	95.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Altered Qz	AO	P	0.3	0.8	8.5	80.4	0.0	0.0	0.0	1.4	0.0	8.6	0.0	0.0
Altered Qz		P	0.1	0.3	3.4	89.8	0.0	0.0	0.0	0.9	0.0	5.5	0.0	0.0
Altered Qz		P	0.2	0.5	4.3	83.4	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0
Altered Qz		P	0.6	6.5	82.9	0.1	0.0	0.4	0.2	0.6	0.0	8.7	0.0	0.0
Altered Qz		P	1.1	3.2	21.7	38.3	0.2	0.0	0.8	3.5	0.0	31.2	0.0	0.0
Altered Qz		P	0.9	1.0	9.8	55.4	0.3	0.1	0.5	1.4	0.0	30.6	0.0	0.0
Altered Qz		P	0.9	0.9	9.4	73.1	0.2	0.3	0.6	1.3	0.0	13.3	0.0	0.0
Altered Qz		P	1.0	0.3	4.3	72.0	0.3	0.2	0.6	0.0	0.0	16.7	4.6	0.0
Altered Qz		P	0.5	0.8	6.9	76.8	0.2	0.1	0.0	0.5	0.0	14.2	0.0	0.0
Altered Plag		P	0.0	0.0	27.0	34.9	0.0	0.0	0.0	0.0	21.6	16.5	0.0	0.0
Altered Plag		P	2.2	1.5	28.7	47.6	0.1	0.3	0.4	2.2	6.6	9.8	0.6	0.0
Altered Alb		P	20.5	0.0	20.3	59.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Altered Alb		P	19.3	0.0	20.2	60.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Altered Alb		P	16.4	0.0	20.7	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Altered Alb		P	0.0	13.5	17.9	21.2	0.0	0.0	0.0	0.0	0.0	47.4	0.0	0.0
Altered Alb		P	7.7	1.2	22.7	50.5	0.2	0.2	0.0	1.9	0.0	15.7	0.0	0.0
Altered Alb	AO	P	2.6	1.5	25.1	56.6	0.0	0.0	0.0	4.9	0.0	9.2	0.0	0.0
Altered Alb	AO	P	13.2	0.0	21.4	65.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Altered Alb	AO	P	16.1	0.0	20.2	58.4	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0
Altered Alb		P	13.2	0.1	21.1	59.7	0.1	0.1	0.0	0.3	0.4	5.1	0.0	0.0
Altered Alb		P	9.2	0.1	20.9	63.7	0.1	0.1	0.2	0.2	0.5	5.1	0.0	0.0
Altered Alb		P	14.2	0.4	21.2	57.1	0.2	0.4	0.1	0.2	0.0	6.1	0.0	0.0
Chl		P	0.2	8.8	22.4	24.1	0.1	0.1	0.0	0.6	0.0	43.6	0.0	0.0
Chl		P	0.1	28.8	3.7	59.7	0.0	0.1	0.0	0.5	0.0	7.0	0.0	0.0
Chl		P	0.4	19.5	10.0	53.7	0.0	0.2	0.0	1.6	0.0	11.9	2.7	0.0
Chl		P	0.0	21.4	17.2	22.0	0.0	0.0	0.0	0.0	0.0	39.5	0.0	0.0
Chl		P	0.0	9.8	18.3	26.1	0.0	0.0	0.0	0.0	0.0	45.7	0.0	0.0
Chl		P	0.0	8.6	20.4	18.0	0.0	0.0	0.0	0.0	0.0	53.1	0.0	0.0
Chl		P	1.0	26.6	2.2	49.5	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0
Chl		P	0.0	11.5	19.4	29.9	0.0	0.0	0.0	0.0	0.0	39.1	0.0	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Altered Felds		P	0.0	0.0	18.9	60.1	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0
Altered Felds		P	0.0	0.0	18.9	59.8	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0
Altered Felds	AO	P	4.5	0.0	19.6	58.8	0.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0
Altered Felds		P	0.0	0.0	16.0	46.5	0.0	0.0	0.0	32.2	0.0	5.3	0.0	0.0
Altered Felds		P	1.5	0.0	21.4	57.2	0.0	0.0	0.0	19.9	0.0	0.0	0.0	0.0
Altered Felds		P	1.7	0.0	19.3	55.6	0.0	0.0	0.0	23.3	0.0	0.1	0.0	0.0
Altered Felds		P	2.4	0.0	19.7	57.3	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0
Altered Felds		P	0.8	0.0	19.5	55.3	0.0	0.0	0.0	24.3	0.0	0.0	0.0	0.0
Altered Felds		P	0.4	0.0	18.5	56.5	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0
Altered Felds		P	0.8	0.0	18.7	55.9	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0
Altered Felds		P	0.3	0.0	18.6	53.3	0.0	0.0	0.0	22.8	0.0	5.0	0.0	0.0
Altered Felds		P	0.6	0.0	18.8	56.4	0.0	0.0	0.0	24.2	0.0	0.0	0.0	0.0
Mus		P	0.0	3.0	26.5	40.0	0.0	0.0	0.0	14.3	0.0	16.3	0.0	0.0
Mus		P	0.0	2.1	30.3	49.0	0.0	0.0	0.0	18.5	0.0	0.0	0.0	0.0
Mus		P	0.8	1.5	35.1	44.4	0.0	0.0	0.0	13.8	0.0	4.5	0.0	0.0
Mus	AO	P	1.1	2.0	23.0	30.5	0.0	0.0	0.0	4.4	8.1	30.9	0.0	0.0
Mus	AO	P	0.9	0.4	39.3	44.4	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0
Mus	AO	P	0.2	2.4	21.9	33.9	0.0	0.0	7.2	5.5	0.0	28.9	0.0	0.0
Mus	AO	P	0.0	2.5	29.2	41.7	0.0	0.0	0.0	13.5	0.0	13.2	0.0	0.0
Mus		P	0.2	2.6	13.1	34.0	0.2	0.3	0.1	3.7	0.0	45.2	0.7	0.0
Mus		P	0.0	2.0	31.5	41.0	0.0	0.0	0.0	15.4	0.0	10.1	0.0	0.0
Mus		P	8.5	0.0	20.4	58.7	0.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0
Mus		P	1.2	0.5	30.5	35.0	0.1	0.2	0.0	11.6	0.0	4.3	16.8	0.0
Mus		P	1.3	0.8	26.2	37.1	0.2	0.3	0.4	7.3	0.0	5.7	20.8	0.0
Mus		P	0.7	0.5	11.6	13.4	0.0	0.0	0.0	3.3	0.0	3.5	67.1	0.0
Mus		P	1.2	1.0	26.6	36.2	0.1	0.9	0.4	8.0	0.0	6.9	18.7	0.0
Mus		A	1.4	0.9	26.8	34.5	0.2	0.2	0.4	8.8	0.0	6.2	20.5	0.0
Mus		P	2.3	1.2	24.0	26.7	0.8	1.2	1.1	2.6	0.7	39.2	0.0	0.0
Mus		P	0.8	1.5	34.2	43.2	0.0	0.0	0.0	13.5	0.0	6.8	0.0	0.0
Mus		P	0.1	0.1	40.0	40.7	0.8	0.0	0.0	0.9	0.0	17.4	0.0	0.0
Mus		P	0.3	0.6	32.8	35.1	0.7	0.0	0.0	3.6	0.0	26.9	0.0	0.0
Mus		P	0.3	1.4	38.8	46.2	0.0	0.0	0.0	9.8	0.0	2.3	1.2	0.0
Mus		P	0.0	0.0	40.0	45.6	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0
Mus		P	0.0	0.0	38.0	46.9	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Altered Kln	AO	P	0.0	0.0	44.3	44.6	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
Altered Kln		P	0.0	0.0	46.5	46.4	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0
Altered Kln		P	0.4	0.4	37.7	39.8	0.0	0.0	0.0	1.4	0.0	20.2	0.0	0.0
Oxides		P	1.8	0.5	10.5	5.8	0.1	0.1	0.0	0.2	0.0	76.1	4.4	0.4
Oxides		P	0.4	0.3	10.1	4.7	2.0	0.0	0.0	0.0	0.0	76.8	5.6	0.0
Oxides		P	0.5	0.7	5.2	7.2	0.0	0.0	0.0	0.0	0.0	81.3	5.1	0.0
Oxides		P	0.0	0.0	0.1	0.5	0.1	0.3	0.0	0.0	0.0	95.6	0.0	3.5
Background		A	3.1	1.2	16.7	42.3	0.3	0.4	0.2	1.8	0.4	32.1	0.5	0.8
Background		P	0.2	0.0	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Background		P	0.1	1.1	17.3	31.1	0.0	0.4	0.0	1.8	0.0	48.2	0.0	0.0
Background		P	0.0	1.0	21.6	18.6	0.2	0.8	0.4	1.7	0.4	53.1	0.5	1.8
Background		P	0.4	0.4	16.2	15.9	0.2	1.7	0.1	0.5	0.5	59.4	0.3	4.3
Background		P	0.4	1.3	21.3	19.1	0.0	0.9	0.4	1.2	0.4	53.5	0.4	1.1
Background		P	0.0	0.3	4.1	83.8	0.3	0.0	0.0	2.1	0.5	0.0	8.9	0.0
Background		P	1.1	2.3	36.9	46.3	0.1	0.0	0.0	10.9	0.0	0.0	2.3	0.0
Background		P	0.3	6.1	22.6	46.3	0.3	0.0	0.2	4.8	0.2	0.0	19.3	0.0
Background		P	6.0	1.7	18.3	43.2	1.3	0.0	0.0	1.9	2.7	0.0	24.9	0.0
Background		P	1.4	2.2	16.1	50.4	1.0	0.0	0.0	4.1	3.9	0.0	21.0	0.0
Background		P	0.5	3.6	15.7	42.3	0.8	0.0	0.0	2.3	0.3	0.0	34.5	0.0
Background		P	3.2	4.7	27.5	48.9	0.2	0.1	0.1	4.8	0.2	0.0	10.5	0.0
Background		P	0.1	0.1	40.0	40.7	0.8	0.0	0.0	0.9	0.0	17.4	0.0	0.0
Background		P	0.7	0.3	18.0	13.8	1.8	0.0	0.0	1.7	0.0	63.6	0.0	0.0
Background		P	0.5	1.2	32.5	35.3	0.8	0.0	0.0	1.5	0.0	28.4	0.0	0.0
Background		P	0.4	0.3	10.1	4.7	2.0	0.0	0.0	0.0	0.0	76.8	5.6	0.0
Background		P	0.3	0.6	32.8	35.1	0.7	0.0	0.0	3.6	0.0	26.9	0.0	0.0
Background		P	0.3	1.4	38.8	46.2	0.0	0.0	0.0	9.8	0.0	2.3	1.2	0.0
Background		P	0.1	2.8	33.0	47.4	0.0	0.0	0.5	7.0	0.0	9.2	0.0	0.0
Background		P	0.5	2.1	35.8	44.5	0.0	0.0	0.0	10.2	0.0	7.0	0.0	0.0
Background		P	0.2	3.1	30.9	51.2	0.2	0.0	0.3	3.9	0.6	8.8	0.8	0.0
Background		A	0.2	3.4	28.0	51.9	0.0	0.0	0.3	3.7	0.0	12.1	0.5	0.0
Background		P	0.4	3.9	28.7	51.7	0.0	0.0	0.3	3.1	0.0	11.9	0.0	0.0
Background		P	6.2	4.4	18.6	53.9	0.0	0.0	0.0	2.5	0.0	13.8	0.6	0.0
Background		P	2.1	3.9	20.7	61.7	0.0	0.0	0.0	6.7	0.0	3.9	0.0	1.0
Background		P	19.9	0.0	20.2	59.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Background		P	0.0	0.0	2.3	46.4	0.8	0.0	0.0	0.0	0.0	10.3	40.0	0.0
Background		P	0.7	3.3	35.1	47.5	0.0	0.0	0.0	10.0	0.0	3.6	0.0	0.0
Background		P	0.3	4.7	17.1	63.1	0.0	0.0	0.0	4.4	0.0	10.4	0.0	0.0
Background		P	0.2	1.4	32.0	41.5	0.1	0.0	0.0	13.5	0.0	11.3	0.0	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Background		P	2.0	1.9	21.9	42.4	0.0	0.0	0.0	3.3	0.0	28.5	0.0	0.0
Background		P	0.0	35.1	0.0	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Background		P	0.0	0.0	11.2	88.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Background		P	0.0	21.8	0.1	49.7	0.0	0.0	0.0	0.0	17.0	11.5	0.0	0.0
Background		P	2.1	14.6	10.2	36.3	0.0	0.0	0.0	0.0	7.3	29.5	0.0	0.0
Background		P	0.3	2.2	33.8	43.2	15.2	0.0	0.0	0.0	0.0	5.3	0.0	0.0
Background		P	0.9	2.6	20.2	39.6	0.7	0.4	1.9	3.6	0.0	30.1	0.0	0.0
Background		P	0.5	0.9	9.7	68.5	0.2	0.0	0.0	0.8	0.0	19.4	0.0	0.0
Background		P	3.7	1.6	22.3	38.5	0.3	0.2	0.0	2.0	1.2	29.5	0.7	0.0
Background		A	1.1	2.2	20.2	40.0	0.2	0.1	1.2	4.2	0.0	29.7	1.0	0.0
Background		A	0.8	2.1	20.6	38.8	0.2	0.2	1.6	3.7	0.0	31.0	0.9	0.0
Background		P	0.6	2.2	26.4	41.7	0.2	0.3	0.9	3.1	0.0	24.4	0.0	0.0
Background		P	1.2	1.4	17.1	49.5	0.4	0.1	0.0	2.3	0.0	27.4	0.6	0.0
Background		P	1.3	2.0	24.7	40.0	0.4	0.1	0.2	3.9	0.0	24.7	2.7	0.0
Background		P	1.0	1.9	18.6	49.5	0.2	0.2	0.3	2.6	0.0	25.7	0.0	0.0
Background		A	0.9	2.4	21.2	38.3	0.2	0.2	1.5	3.8	0.0	31.6	0.0	0.0
Background		P	0.7	2.2	23.1	39.6	0.3	0.2	0.2	3.3	0.0	30.4	0.0	0.0
Background		P	0.8	1.6	12.1	18.5	0.2	0.3	0.0	1.0	0.0	63.7	1.8	0.0
Background		P	0.6	2.3	22.5	35.1	0.3	0.2	0.4	3.4	0.0	34.6	0.6	0.0
Background		P	0.8	2.4	23.3	38.6	0.3	0.3	0.0	2.3	0.0	32.0	0.0	0.0
Background		A	0.6	2.4	20.7	36.4	0.3	0.2	1.3	4.0	0.0	33.2	0.9	0.0
Background		P	0.7	2.1	20.4	31.3	0.4	0.3	0.4	2.3	0.0	41.1	0.8	0.0
Background		P	0.7	1.7	21.1	36.2	0.3	0.2	0.5	4.5	0.0	33.6	1.1	0.0
Background		P	0.5	1.6	24.6	45.6	0.2	0.2	0.5	4.0	0.0	22.4	0.5	0.0
Background		A	1.4	1.8	16.4	47.4	0.2	0.3	0.9	3.1	0.0	26.7	1.9	0.0
Background		A	1.1	2.1	20.6	42.0	0.3	0.4	1.1	3.4	0.0	29.1	0.0	0.0
Background		P	0.7	2.1	23.2	46.0	0.3	0.4	0.2	3.0	0.0	23.0	1.2	0.0
Background		A	1.8	2.1	22.3	40.8	0.2	0.3	1.6	4.2	0.0	26.8	0.0	0.0
Background		P	0.5	0.6	7.4	79.4	0.1	0.1	0.0	0.8	0.0	11.1	0.0	0.0
Background		A	1.0	2.2	20.7	39.9	0.2	0.3	1.3	4.2	0.0	29.2	0.9	0.0
Background		A	1.2	2.4	23.2	38.8	0.3	0.4	0.8	4.1	0.0	28.2	0.6	0.0
Background		P	0.7	1.9	23.8	41.3	0.4	0.2	0.9	4.1	0.0	26.7	0.0	0.0
Background		P	1.4	1.6	30.3	39.9	0.5	1.1	1.8	2.0	1.6	14.2	5.5	0.0
Background		P	0.8	1.4	26.0	33.9	0.4	0.3	0.4	1.4	0.0	26.8	8.6	0.0
Background		P	1.3	2.5	23.0	34.6	0.5	0.6	1.0	2.8	0.0	29.8	3.8	0.0
Background		A	0.9	2.3	20.7	39.8	0.5	0.5	1.4	4.4	0.0	29.0	0.6	0.0
Background		P	0.8	2.1	26.1	46.0	0.3	0.3	0.2	5.0	0.0	18.5	0.6	0.0
Background		A	1.0	2.6	21.3	34.6	0.3	0.4	1.4	4.1	0.0	33.4	1.0	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Background		P	2.0	1.4	14.8	58.0	0.8	0.6	1.0	1.5	0.0	20.0	0.0	0.0
Background		P	0.7	1.9	21.8	37.8	0.2	0.3	1.0	3.9	0.0	31.2	1.0	0.0
Background		P	0.7	2.3	25.8	43.9	0.3	0.0	0.2	3.7	0.0	22.7	0.4	0.0
Background		P	0.7	3.0	24.1	35.7	0.3	0.0	0.0	6.3	0.0	30.0	0.0	0.0
Background		A	1.2	2.4	22.8	37.0	0.3	0.3	1.1	4.4	0.0	29.7	0.8	0.0
Background		P	0.5	1.7	9.8	70.4	0.1	0.1	0.0	0.8	0.0	16.5	0.0	0.0
Background		P	1.0	2.2	21.8	39.9	0.3	0.3	0.3	2.6	0.0	31.1	0.5	0.0
Background		P	1.4	2.5	20.9	39.9	0.6	1.0	0.4	2.5	0.0	30.7	0.0	0.0
Background		A	0.9	2.3	20.3	38.9	0.2	0.3	1.1	3.9	0.0	31.2	0.9	0.0
Background		P	5.7	2.3	21.8	38.2	1.0	2.6	1.8	5.0	0.0	21.7	0.0	0.0
Background		A	1.0	2.3	22.0	39.3	0.3	0.3	1.1	4.0	0.0	28.7	0.9	0.0
Background		P	0.5	5.7	15.1	17.1	0.1	0.0	0.0	0.5	0.0	61.1	0.0	0.0
Background		A	0.9	2.4	20.4	38.1	0.3	0.3	1.1	4.6	0.0	31.3	0.6	0.0
Background		A	1.8	2.0	20.8	38.9	0.3	0.3	1.1	3.6	0.0	29.3	2.0	0.0
Background		P	0.9	2.4	20.0	36.3	0.2	0.2	0.4	3.1	0.0	35.5	1.0	0.0
Background		P	0.8	2.8	23.7	38.5	0.3	0.3	0.4	2.9	0.0	29.1	1.3	0.0
Background		P	0.8	3.0	19.0	33.2	0.3	0.3	0.3	2.8	0.0	40.2	0.0	0.0
Background		P	0.7	1.6	17.1	39.2	0.3	0.4	0.0	1.8	0.0	38.2	0.7	0.0
Background		P	7.1	1.6	21.9	43.2	0.3	0.3	0.0	2.1	0.0	23.4	0.0	0.0
Background		P	0.6	0.9	8.4	70.8	0.2	0.2	0.0	0.7	0.0	17.4	0.6	0.0
Background		P	0.7	1.9	23.3	43.9	0.2	0.3	0.2	7.7	0.0	21.1	0.8	0.0
Background		A	1.1	2.6	21.4	37.8	0.2	0.3	0.9	4.6	0.0	30.2	1.0	0.0
Background		P	2.2	2.4	24.7	33.6	0.7	0.6	1.7	2.6	0.0	30.6	1.0	0.0
Background		P	1.9	2.0	23.3	32.5	0.7	0.7	1.4	2.5	0.0	35.1	0.0	0.0
Background		P	0.0	1.8	14.9	39.1	0.2	1.6	36.2	0.0	0.0	6.2	0.0	0.0
Background		A	1.1	2.6	21.0	36.7	0.2	0.3	1.2	3.6	0.0	32.5	0.8	0.0
Background		P	0.8	1.7	19.4	42.0	0.2	0.2	0.3	10.0	0.0	25.4	0.0	0.0
Background		P	1.0	2.3	26.8	43.3	0.3	0.2	0.4	5.0	0.0	20.0	0.7	0.0
Background		P	2.6	1.8	21.8	34.8	0.3	0.2	0.4	2.6	0.9	34.1	0.5	0.0
Background		A	1.5	2.4	20.9	38.5	0.3	0.4	1.3	4.1	0.0	29.7	0.9	0.0
Background		A	2.2	1.8	17.8	36.1	0.3	0.8	4.6	4.0	0.0	32.4	0.0	0.0
Background		P	1.2	2.7	25.4	44.0	0.2	0.4	0.4	4.1	0.0	21.2	0.4	0.0
Background		A	1.4	2.2	21.3	38.9	0.2	0.2	1.4	4.3	0.0	29.3	0.8	0.0
Background		P	1.4	2.5	25.4	44.1	0.4	0.7	0.4	4.2	0.0	19.7	1.3	0.0
Background		P	0.6	2.3	27.3	47.2	0.0	0.9	0.4	5.0	0.0	16.3	0.0	0.0
Background		A	1.1	2.4	19.5	41.1	0.5	0.6	1.8	3.6	0.0	29.4	0.0	0.0
Background		P	0.5	1.3	14.8	28.9	0.0	0.4	4.1	1.4	0.0	46.7	1.8	0.0
Background		P	1.5	2.2	25.7	44.0	0.4	0.4	0.8	3.8	0.0	20.4	0.9	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Background		A	1.6	2.3	20.6	36.4	0.4	0.3	1.5	4.2	0.0	32.0	0.7	0.0
Background		P	1.4	0.8	7.2	74.2	0.2	0.4	0.9	0.7	0.0	14.2	0.0	0.0
Background		P	6.7	2.7	16.0	40.3	0.6	0.0	5.2	2.2	0.0	26.2	0.0	0.0
Background		P	1.0	5.6	16.1	21.0	0.2	0.2	0.3	0.9	0.0	54.6	0.0	0.0
Background		P	0.9	2.1	26.8	54.1	0.0	0.9	1.5	6.4	0.0	7.4	0.0	0.0
Background		P	0.6	0.3	3.7	58.1	0.2	0.0	0.0	0.0	0.0	9.1	28.0	0.0
Background		P	6.7	5.9	20.1	31.6	0.6	4.8	6.5	2.7	0.0	21.3	0.0	0.0
Background		A	2.8	2.1	19.6	35.8	0.3	0.9	2.6	4.6	0.0	29.8	1.5	0.0
Background		P	0.4	0.6	6.0	80.9	0.1	0.0	0.1	0.1	0.0	11.6	0.3	0.0
Background		P	0.7	2.1	22.2	46.5	0.3	0.3	0.3	2.7	0.0	23.6	1.3	0.0
Background	AO	A	1.3	2.5	21.7	40.8	< 0.1	< 0.1	1.4	4.3	0.0	27.9	0.0	0.0
Background	AO	A	1.3	2.4	22.3	40.1	< 0.1	< 0.1	1.2	4.6	0.0	28.1	0.0	0.0
Background	AO	A	1.6	2.4	20.6	39.4	< 0.1	< 0.1	1.2	4.2	0.0	30.5	0.0	0.0
Background	AO	A	0.9	2.3	21.0	43.8	< 0.1	< 0.1	1.1	4.6	0.0	26.3	0.0	0.0
Background	AO	A	1.2	2.2	21.2	44.7	< 0.1	< 0.1	1.3	4.2	0.0	25.3	0.0	0.0
Background	AO	A	1.2	2.3	21.9	38.6	< 0.1	< 0.1	1.1	4.5	0.0	30.4	0.0	0.0
Background	AO	A	1.3	2.2	21.9	41.8	< 0.1	< 0.1	1.0	4.3	0.0	27.4	0.0	0.0
Background	AO	A	1.6	2.5	22.1	42.6	< 0.1	< 0.1	0.8	5.0	0.0	25.5	0.0	0.0
Background	AO	A	1.4	2.4	21.7	41.1	< 0.1	< 0.1	1.3	4.9	0.0	27.2	0.0	0.0
Background	AO	A	1.7	2.2	21.1	40.7	< 0.1	< 0.1	1.2	4.3	0.0	27.5	1.2	0.0
Background	AO	A	1.2	2.4	21.3	39.7	< 0.1	< 0.1	1.0	3.8	0.0	29.2	1.4	0.0
Background	AO	A	1.3	2.4	22.3	40.6	< 0.1	< 0.1	1.5	4.8	0.0	27.2	0.0	0.0
Background	AO	A	1.0	2.8	21.4	43.6	< 0.1	< 0.1	0.9	4.2	0.0	26.1	0.0	0.0
Background	AO	A	1.2	2.3	21.7	42.3	< 0.1	< 0.1	0.8	4.8	0.0	27.1	0.0	0.0
Background	AO	A	1.0	2.3	21.3	42.7	< 0.1	< 0.1	1.1	4.6	0.0	27.0	0.0	0.0
Background	AO	A	1.1	2.7	22.2	42.0	< 0.1	< 0.1	0.7	4.2	0.0	27.1	0.0	0.0
Background	AO	A	1.3	2.6	22.3	41.0	< 0.1	< 0.1	1.2	4.5	0.0	27.2	0.0	0.0
Background	AO	A	1.0	2.2	21.7	41.2	< 0.1	< 0.1	1.0	4.7	0.0	28.2	0.0	0.0
Background	AO	A	1.5	2.6	22.1	41.2	< 0.1	< 0.1	1.0	4.3	0.0	27.3	0.0	0.0
Background	AO	A	1.2	2.1	22.4	40.4	< 0.1	< 0.1	0.9	4.7	0.0	27.0	1.2	0.0
Background	AO	A	1.8	2.4	22.3	40.6	< 0.1	< 0.1	1.2	3.8	0.0	27.9	0.0	0.0
Background	AO	A	1.9	2.4	22.2	41.0	< 0.1	< 0.1	1.0	4.1	0.0	27.4	0.0	0.0
Background	AO	A	1.4	2.5	21.6	41.1	< 0.1	< 0.1	1.1	4.7	0.0	27.7	0.0	0.0
Background	AO	A	1.9	2.3	21.2	40.6	< 0.1	< 0.1	1.2	4.2	0.0	28.6	0.0	0.0
Background	AO	A	4.3	2.2	22.8	39.7	< 0.1	< 0.1	1.3	4.1	0.0	25.7	0.0	0.0
Background	AO	A	0.7	2.2	21.5	43.1	< 0.1	< 0.1	1.2	4.4	0.0	26.9	0.0	0.0
Background	AO	A	1.1	2.2	21.6	42.1	< 0.1	< 0.1	1.2	5.3	0.0	26.5	0.0	0.0
Background	AO	A	1.7	2.1	22.2	43.3	< 0.1	< 0.1	1.2	4.4	0.0	25.0	0.0	0.0

Mineral / Map	AO	Type of analysis	Na	Mg	Al	Si	P	S	Cl	K	Ca	Fe	Ti	Mn
Background	AO	A	0.9	2.0	21.3	43.7	< 0.1	< 0.1	1.0	4.5	0.0	26.6	0.0	0.0
Background	AO	A	61.4	0.2	0.7	9.0	< 0.1	< 0.1	15.1	0.4	11.2	2.0	0.0	0.0
Background	AO	A	64.5	0.2	0.7	9.6	< 0.1	< 0.1	14.2	1.9	0.0	8.9	0.0	0.0
Background	AO	A	2.0	2.0	20.7	41.5	< 0.1	< 0.1	1.0	4.4	0.0	27.0	1.3	0.0
Background	AO	A	2.4	2.3	21.3	41.9	< 0.1	< 0.1	1.4	4.0	0.0	26.8	0.0	0.0
Background	AO	A	1.9	2.4	21.2	42.8	< 0.1	< 0.1	1.1	4.0	0.0	26.6	0.0	0.0
Background	AO	A	1.0	2.3	21.1	41.0	< 0.1	< 0.1	1.4	4.6	0.0	28.6	0.0	0.0
Background	AO	A	3.1	2.2	22.5	40.9	< 0.1	< 0.1	1.4	4.5	1.4	23.9	0.0	0.0
Background	AO	A	1.4	2.2	21.6	43.0	< 0.1	< 0.1	1.0	4.8	0.0	25.9	0.0	0.0
Background	AO	A	1.1	2.2	22.1	40.2	< 0.1	< 0.1	1.1	4.8	0.0	28.3	0.0	0.0
Background	AO	A	2.0	2.3	22.3	40.3	< 0.1	< 0.1	1.2	4.2	0.0	27.6	0.0	0.0
Background	AO	A	1.3	2.4	21.3	40.2	< 0.1	< 0.1	1.1	4.3	0.0	29.2	0.0	0.0
Background	AO	A	1.1	2.4	21.7	42.9	< 0.1	< 0.1	1.0	4.6	0.0	26.2	0.0	0.0
Background	AO	A	1.0	2.3	21.8	41.5	< 0.1	< 0.1	1.3	4.6	0.0	27.5	0.0	0.0
Background	AO	A	1.1	2.5	21.4	41.0	< 0.1	< 0.1	1.4	4.5	0.0	26.4	1.7	0.0
Background	AO	A	0.7	2.7	20.9	44.9	< 0.1	< 0.1	0.0	4.7	0.0	26.1	0.0	0.0
Background	AO	A	0.5	2.6	21.1	46.4	< 0.1	< 0.1	0.0	4.3	0.0	25.2	0.0	0.0