CRCLEME
Cooperative Research Centre for
Landscape Evolution & Mineral Exploration

CSIRO
EXPLORATION
AND MINING

OPEN FILE
REPORT
SERIES

GEOCHEMICAL DISPERSION IN THE OLARY DISTRICT, SOUTH AUSTRALIA: INVESTIGATIONS AT FAUGH-A-BALLAGH PROSPECT, OLARY SILVER MINE, WADNAMINGA GOLDFIELD AND BLUE ROSE PROSPECT

Volume 2: Appendices and CD

M.S. Skwarnecki, Li Shu and M.J. Lintern

CRC LEME OPEN FILE REPORT 113

September 2001

(CSIRO Exploration and Mining Report 794R /
CRC LEME Report 156R, 2001. Second impression 2001)

GEOCHEMICAL DISPERSION IN THE OLARY DISTRICT, SOUTH AUSTRALIA: INVESTIGATIONS AT FAUGH-A-BALLAGH PROSPECT, OLARY SILVER MINE, WADNAMINGA GOLDFIELD AND BLUE ROSE PROSPECT

Volume 2: Appendices and CD

M.S. Skwarnecki, Li Shu and M.J. Lintern

CRC LEME OPEN FILE REPORT 113

September 2001

(CSIRO Exploration and Mining Report 794R /
CRC LEME Report 156R, 2001. Second impression 2001)

CRC LEME is an unincorporated joint venture between The Australian National University, University of Canberra, Australian Geological Survey Organisation and CSIRO Exploration and Mining
Headquarters: CRC LEME c/o CSIRO Exploration and Mining, PO Box 1130 Bentley, Western Australia, 6102

This report presents outcomes of a collaborative research project between Lynas Corporation Ltd., CRC LEME and the Department of Primary Industries and Resources, South Australia (PIRSA) that commenced in mid 2000 and continued until early 2001. Confidentiality on the data and report expired on 1st August 2001.

This report (CRC LEME Open File Report 113) is a second impression (second printing) of CRC LEME Restricted Report 156R, first issued in April 2001.
Copies of this publication can be obtained from:
The Publication Officer, c/- CRC LEME, CSIRO Exploration and Mining, P.O. Box 1130, Bentley, WA 6102, Australia. Information on other publications in this series may be obtained from the above or from http://leme.anu.edu.au/
Cataloguing-in-Publication:
Skwarnecki, M.S.
Geochemical dispersion in the Olary District, South Australia: Investigations at Faugh-a-Ballagh Prospect, Olary Silver Mine, Wadnaminga Goldfield and Blue Rose Prospect.
ISBN V1:0 643 06769 8 V2:0 643 06770 1 set:0 643 06771 X
1. Geochemistry - South Australia 2. Regolith - South Australia 3. Silver ores - South Australia
Li Shu. II. Lintern, M.J. III Title.
CRC LEME Open File Report 113.
ISSN 1329-4768

APPENDIX 1.

WADNAMINGA

Appendix 1.1
Analyses of calcrete samples

Appendix 1.1

Wadnaminga calcrete samples

					Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Hg
					Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3M	AA6
					LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.05
Sample_no	Field_no	Northing	Easting	Error	Description																							
R448116	WDC1	6398694	428917	4.2	nodular calcrete in soil	0.1	17300	16	110			175	0.1	236000	0.2	23.5	20	15	1	17	2.7	1.3	1.05	11400	4.1	3.4	-1	-0.05
R448117	WDC2	6398646	428917	3.9	nodular calcrete in soil	0.1	15200	3.5	19			280	-0.1	286000	0.1	26.5	13.5	15	1	20	1.7	0.85	0.74	9300	3.5	2.5	-1	-0.05
R448118	WDC3	6398716	428879	3.9	nodular calcrete in soil	0.1	18300	5	36			280	0.2	255000	0.1	29	9	17	1.2	17	1.75	0.85	0.77	11700	4.2	2.5	-1	-0.05
R448119	WDC4	6398742	428866	3.9	massive calcrete in soil	-0.1	23700	6.5	29			280	-0.1	180000	-0.1	25	9.5	14	1.4	17	1.6	0.75	0.73	13900	5.5	2.2	-1	-0.05
R448120	WDC5	6398794	429316	4.2	massive calcrete replacing gy-gn siltstone (locally with qz veinlets) in pit (hangingwall)	-0.1	20900	10	82			290	-0.1	254000	-0.1	20.5	11.5	18	1.7	20	1.1	0.5	0.56	14700	5	1.55	1	-0.05
R448121	WDC6	6398800	429267	4.1	massive calcrete replacing gy-gn siltstone adj. to qv in pit above inclined shaft (footwall)	-0.1	23600	45	160			550	-0.1	202000	-0.1	25	17.5	19	1	47	1.6	0.7	0.83	19500	6	2.3	1	-0.05
R448122	WDC7	6398801	429213	4.1	calcrete replacing and coating siltstone in pit above inclined shaft (footwall)	0.2	36700	16.5	140	160		270	-0.1	185000	0.1	26.5	15.5	32	1.4	31	1.15	0.55	0.65	27000	9	1.8	2	-0.05
R448123	WDC8	6398791	429163	5	calcrete replacing siltstone; adj. to qv; in shallow pit along lode (hangingwall)	0.2	59200	13	120			420	-0.1	153000	0.2	35.5	15	53	2.7	54	1.75	0.8	1.05	30800	14.5	2.7	4	-0.05
R448124	WDC9	6398792	429117	4	calcrete replacing siltstone in shallow pit along lode (footwall)	0.1	35600	15	130			350	-0.1	189000	-0.1	32.5	11.5	30	1.5	19	1.5	0.75	0.74	23000	8	2.1	2	-0.05
R448125	WDC10	6398819	429080	4	calcrete replacing siltstone and as rinds on bedrock; in shallow pit along lode (footwall)	0.7	28900	145	520	410		310	1.1	199000	0.7	27.5	11	28	1.3	20	1.3	0.65	0.64	15200	6.5	1.9	2	-0.05
R448126	WDC11	6398815	429155	3.9	massive, above bedrock, from shallow prospecting pit in siltstone with qv	0.7	32000	63	78			410	0.1	191000	0.6	27.5	13.5	37	1	43	1.25	0.6	0.71	20600	7.5	1.9	2	-0.05
R448127	WDC12	6398784	428971	3.7	massive, replacing weathered siltstone with assoc. qv, from pit adj. to inclined shaft (hangingwall)	0.2	12600	22.5	190			600	-0.1	206000	0.2	13	8	12	0.8	19	1.95	1	0.93	7750	2.8	2.7	-1	-0.05
R448128	WDC13	6398790	428976	3.8	massive, replacing weathered siltstone with assoc. qv, from pit adj. to inclined shaft (hangingwall); locally with silicified material; rept of sample WDC12	0.1	7900	9.5	-1			460	-0.1	215000	0.1	9	4.9	7	0.5	14	0.95	0.5	0.5	4850	1.7	1.25	-1	-0.05
R448129	WDC14	6398771	428874	3.8	mainly nodular, but also with massive replacing siltstone; locally with qz veining; shallow pit at side of inclined shaft (hangingwall)	-0.1	18100	38.5	160	150		320	-0.1	236000	-0.1	27	21	16	0.9	31	2.7	1.3	1.15	13000	4.2	3.9	-1	-0.05
R448130	WDC15	6398773	428872	3.9	mainly nodular, but also with massive replacing siltstone; locally with qz veining; shallow pit at side of inclined shaft (footwall); same pit as WDC14	0.2	21100	59	1260	1110		410	-0.1	260000	0.2	32.5	30.5	26	1.4	47	2.3	1.1	0.95	14500	4.9	3	1	-0.05
R448131	WDC16	6398772	428804	3.3	massive calcrete above weathered siltstone and 'honeycomb'-textured rock (hangingwall)	0.1	18600	89	400	350		360	-0.1	204000	-0.1	19	19	14	0.8	27	1.2	0.6	0.57	10400	4.7	1.65	-1	-0.05
R448132	WDC17	6398755	428747	4.3	nodular calcrete over weathered siltstone (hangingwall)	0.1	20700	47	1020	1240		350	-0.1	243000	0.1	24.5	10.5	16	1.1	27	1.15	0.6	0.6	13500	4.7	1.7	1	-0.05
R448133	WDC18	6398758	428730	4.7	massive, replacing siltstone, with some nodular calcrete (hangingwall)	0.2	26800	120	480	460		420	-0.1	222000	0.2	27	13	22	0.9	37	1.4	0.65	0.74	17100	6.5	2.1	1	-0.05
R448134	WDC19	6399009	429125	3.5	massive to laminar cementing qz and siltstone fragments; in creek	0.2	51100	12	9			250	0.2	103000	0.2	56	19	64	2.3	31	2.8	1.35	1.05	39500	13	3.8	3	-0.05
R448135	WDC20	6399022	429068	3.6	massive to laminar cementing qz and siltstone fragments; in creek	0.2	27100	4.5	3			200	0.2	235000	0.1	35	11	32	1.3	20	1.65	0.8	0.71	20100	6.5	2.4	2	-0.05
R448136	WDC21	6399060	428983	3.3	platy or laminar calcrete containing qz fragments (over gy-gn siltstone); in creek	-0.1	18300	3	2			220	-0.1	281000	-0.1	21	7.5	23	1.1	15	1.3	0.65	0.5	12300	4.3	1.75	-1	-0.05
R448137	WDC22	6399105	428898	3.4	platy or laminar calcrete containing qz, siltstone and older calcrete fragments (over gy-gn siltstone); also partly replacing bedrock; in creek	-0.1	10700	3	5			145	-0.1	312000	-0.1	17.5	7.5	9	0.6	14	0.9	0.4	0.38	7100	2.3	1.3	-1	-0.05
R448138	WDC23	6399088	428747	4.1	laminar calcrete over gy-gn siltstone; close to qv	-0.1	22900	3.5	3			195	-0.1	257000	-0.1	22.5	12	25	1.3	20	1.15	0.55	0.51	17700	5.5	1.7	1	-0.05
R448139	WDC24	6399042	428675	4.1	laminar calcrete (with qz fragments) over gy-gn siltstone; partly replacing bedrock	-0.1	23600	3	-1			180	-0.1	238000	-0.1	32.5	11	24	1.4	16	1.35	0.65	0.62	18600	6	2.1	1	-0.05
R448140	WDC25	6398990	428551	3.5	laminar calcrete over gy-gn siltstone; close to sample WDS2	0.2	18800	2.5	5			380	-0.1	279000	0.1	27	10	21	1.2	13	1.8	0.9	0.81	12500	4.4	2.6	-1	-0.05
R448141	WDC26	6398978	428424	3.5	massive, cementing gy-gn siltstone, in bottom of creek; underlain by bedrock replaced by calcrete	-0.1	20000	2.5	-1			190	-0.1	303000	-0.1	26	8.5	18	1.2	16	1.35	0.65	0.61	13600	4.6	1.95	1	-0.05
R448142	WDC27	6398971	428418	3.5	laminar calcrete over siltstone; close to E-W qv; in creek draining from SE	-0.1	13400	2	5			270	-0.1	320000	-0.1	20.5	7.5	12	0.9	13	1.45	0.7	0.66	8350	3	2.2	-1	-0.05
R448143	WDC28	6398923	428216	4.1	laminar to massive calcrete over siltstone cementing many small angular fragments of fresh, gy-gn to weathered, bn siltstone and minor qz; in creek	-0.1	23700	3	2			230	-0.1	250000	-0.1	33.5	12.5	26	1.4	24	1.85	0.9	0.82	20500	6	2.8	1	-0.05
R448144	WDC29	6398640	427937	4.6	calcrete on gy siltstone, cementing siltstone (some weathered) and qz fragments; in major N-S creek at western end of Wadnaminga workings	-0.1	25800	4	1			220	0.5	204000	-0.1	45.5	13.5	20	1.8	31	2.2	1.1	0.87	32200	6.5	3.2	2	-0.05
R448145	WDC30	6398511	428038	4.5	calcrete coating on siltstone (locally with 'honeycomb' texture; on eastern bank of major creek	-0.1	19300	3.5	4			280	-0.1	269000	-0.1	26	8.5	17	1.3	13	1	0.5	0.56	13000	4.7	1.7	1	-0.05
R448146	WDC31	6398576	428336	4.6	calcrete coating on siltstone in narrow N-S creek	0.1	21000	5	6			450	0.2	268000	-0.1	28.5	10	17	1.3	17	1.4	0.65	0.74	14800	4.7	2.1	1	-0.05
R448147	WDC32	6398625	428911	3.7	nodular calcrete from old rabbit warren; close to sample WDS17	-0.1	15200	7.5	37			650	-0.1	281000	-0.1	24	22.5	11	0.9	18	2.5	1.15	1.25	9450	3.3	3.8	-1	-0.05
R448148	WDC33	6398624	429076	3.7	laminar to brecciated calcrete replacing siltstone; in creek, about 50m downstream from tailings	-0.1	20000	7	18			700	-0.1	282000	-0.1	26	7	14	1.2	11	1.15	0.55	0.7	13200	4.5	1.65	1	-0.05
R448149	WDC34	6398811	429289	3.7	massive calcrete on 'honeycomb'-tetxured siltstone; from old rabbit warren	-0.1	21600	3.5	24			320	-0.1	269000	-0.1	20	9	19	1.3	16	1	0.45	0.57	14500	5	1.45	1	-0.05
R448150	WDC35	6398855	429580	3.9	calcrete replacing siltstone; on edge of creek, bottom of slope	-0.1	12600	3	2	3		230	-0.1	308000	-0.1	17.5	7.5	11	0.7	13	1.4	0.7	0.57	8500	2.7	1.9	-1	-0.05
R448151	WDC36	6398837	429634	4.3	powdery calcrete along creek channel (?draining Thunder Queen workings)	0.1	48900	7	4			270	0.2	89700	0.1	65	14.5	40	2.5	25	2.9	1.4	1.2	34600	11.5	4.2	3	-0.05
R448152	WDC37	6398526	429519	5.5	laminar to massive calcrete in creek; polymictic	-0.1	18500	5.5	8			320	0.2	262000	-0.1	31.5	12	16	1.3	13	1.9	0.9	0.8	14500	4.1	2.7	-1	-0.05
R448153	WDC38	6398551	429250	6.4	powdery calcrete in washout in creek; 20-40cm depth	0.1	47800	11	16			340	0.2	80200	0.1	67	22.5	35	2.8	24	2.8	1.3	1.2	29800	11	4.2	3	-0.05

Appendix 1.1

Wadnaminga calcrete samples

	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.02	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																		
R448116	0.49	-0.05	4500	19.5	0.22	11300	460	0.6	1750	-5	20	10	250	15	4.9	19.5	300	-0.5	-0.5	4.3	0.6	450	0.41	-0.2	3.4	1300	-0.1	0.2	0.66	31	0.7	15	1.35	34
R448117	0.31	-0.05	3900	19.5	0.14	14000	170	0.3	2100	-5	15	9	230	-5	3.9	19	500	-0.5	-0.5	3.1	0.9	700	0.27	-0.2	4	1250	0.1	0.15	0.93	28	-0.1	11	0.9	25
R448118	0.31	-0.05	4650	19.5	0.15	12200	210	0.2	2700	-5	15.5	8	290	10	4	21	450	-0.5	-0.5	3.3	0.9	600	0.27	-0.2	4.3	1500	0.1	0.15	0.65	32	-0.1	11	0.95	27
R448119	0.28	-0.05	6000	17.5	0.14	56500	260	0.2	5700	-5	14	12	280	5	3.6	39.5	250	-0.5	-0.5	2.9	1	1100	0.25	-0.2	4.3	1250	0.1	0.1	1.55	42	-0.1	9	0.85	35
R448120	0.19	-0.05	5550	12.5	0.09	22100	240	0.2	3150	-5	9.5	9	200	-5	2.5	32.5	300	-0.5	-0.5	2.2	6.5	550	0.18	-0.2	4	1400	0.1	0.1	0.83	45	-0.1	5.5	0.6	24
R448121	0.28	-0.05	7850	16.5	0.13	49000	900	0.2	2500	-5	13	15	185	140	3.3	43.5	250	-0.5	-0.5	3.1	1.2	950	0.25	-0.2	4.2	1000	0.1	0.1	1.35	100	0.6	9.5	0.75	125
R448122	0.2	-0.05	6650	15.5	0.12	24000	175	-0.1	6900	-5	12	17	190	55	3.2	27	300	-0.5	-0.5	2.6	1.1	290	0.19	-0.2	6	2300	0.1	0.1	0.68	67	0.1	6	0.75	165
R448123	0.28	0.05	16200	21	0.18	27900	150	0.2	11100	-5	17.5	28	260	20	4.5	75	200	-0.5	-0.5	3.8	1.7	330	0.28	-0.2	9.5	2750	0.4	0.15	0.91	110	0.6	8.5	1	120
R448124	0.27	-0.05	7000	18.5	0.15	22400	190	-0.1	5600	-5	14.5	13	195	25	3.9	30	300	-0.5	-0.5	3.1	1.2	500	0.24	-0.2	6	2200	0.2	0.1	0.85	71	-0.1	8	0.9	62
R448125	0.21	-0.05	10000	16	0.12	26200	310	0.2	3500	-5	12.5	8	250	420	3.2	49.5	250	-0.5	-0.5	2.7	1.3	850	0.2	-0.2	4.8	1400	0.2	0.1	0.78	89	1.5	7	0.75	43
R448126	0.21	-0.05	21000	16.5	0.12	10800	170	0.2	2300	-5	13	19	230	10	3.3	80	300	-0.5	-0.5	2.9	1.4	400	0.21	-0.2	4.8	1450	0.5	0.1	0.72	96	1.2	6.5	0.75	34
R448127	0.37	-0.05	4700	16.5	0.16	90200	120	0.1	1300	-5	13	7	125	15	3.3	36	300	-0.5	-0.5	3.2	0.6	1200	0.29	-0.2	2.3	750	-0.1	0.15	1.75	33	0.4	12.5	0.95	52
R448128	0.18	-0.05	1850	9.5	0.08	96900	80	-0.1	1150	-5	7	2	95	15	1.8	18	250	-0.5	-0.5	1.75	0.7	1100	0.14	-0.2	1.5	500	-0.1	0.1	1.65	22	0.2	7	0.55	28
R448129	0.5	-0.05	5400	27	0.21	20600	800	0.2	2500	-5	20.5	15	250	50	5	25	300	-0.5	-0.5	4.4	0.7	600	0.43	-0.2	3.4	1000	0.1	0.2	1.2	49	0.5	15	1.3	100
R448130	0.41	-0.05	6250	20.5	0.19	21500	950	0.1	1300	-5	15.5	17	220	125	3.9	28.5	350	-0.5	-0.5	3.5	0.9	750	0.33	-0.2	3.9	1250	0.2	0.2	1.25	49	0.7	12.5	1.15	145
R448131	0.22	-0.05	7250	12.5	0.1	57000	300	-0.1	1700	-5	9.5	15	140	60	2.5	35	400	-0.5	-0.5	2.1	0.8	850	0.17	-0.2	3.2	900	-0.1	0.1	1.55	51	0.3	7.5	0.65	105
R448132	0.2	-0.05	5450	14	0.1	36300	220	-0.1	3200	-5	11	11	200	55	2.9	26	300	-0.5	-0.5	2.4	0.9	900	0.18	-0.2	4	1400	-0.1	0.1	1.2	47	0.2	6	0.6	135
R448133	0.24	-0.05	8850	15.5	0.13	19400	600	-0.1	4400	-5	12.5	13	210	90	3.3	32.5	250	-0.5	-0.5	2.9	1.4	550	0.23	-0.2	4.6	1300	0.1	0.1	0.83	82	0.3	7	0.75	240
R448134	0.49	0.05	9500	31	0.24	23800	390	0.8	4200	-5	23.5	24	310	-5	6.5	43	150	-0.5	-0.5	4.9	2.3	160	0.41	-0.2	12	3850	0.2	0.2	1.25	97	0.7	14	1.55	70
R448135	0.3	-0.05	5350	21	0.15	13500	200	0.5	2300	-5	15	13	300	5	4.1	20	250	-0.5	-0.5	3.2	1.6	230	0.26	-0.2	6	2050	-0.1	0.15	0.91	54	0.3	9.5	0.9	33
R448136	0.24	-0.05	3950	14	0.11	10800	165	0.3	1250	-5	10	9	300	-5	2.6	17.5	450	-0.5	-0.5	2.1	1	270	0.19	-0.2	3.7	1150	-0.1	0.1	0.65	34	-0.1	8	0.7	26
R448137	0.16	-0.05	2700	10.5	0.08	7500	90	0.1	1450	-5	8	4	220	-5	2.1	10.5	300	-0.5	-0.5	1.8	0.6	330	0.14	-0.2	2.5	850	-0.1	0.1	0.51	21	-0.1	5	0.5	13
R448138	0.2	-0.05	5350	13.5	0.11	14200	180	-0.1	3750	-5	10.5	11	260	-5	2.8	25	450	-0.5	-0.5	2.3	1.3	420	0.18	-0.2	4.5	1950	-0.1	0.1	0.8	46	-0.1	6	0.65	28
R448139	0.22	-0.05	6700	18.5	0.12	11300	190	0.2	2700	-5	13.5	11	210	-5	3.6	30	150	-0.5	-0.5	2.8	1.3	210	0.22	-0.2	6	2400	0.1	0.1	0.93	46	-0.1	7	0.7	29
R448140	0.31	-0.05	5100	23.5	0.13	12600	170	-0.1	1600	-5	16.5	8	340	-5	4.2	24.5	550	-0.5	-0.5	3.3	1	280	0.27	-0.2	4.9	1250	-0.1	0.15	0.66	33	-0.1	10.5	0.9	25
R448141	0.23	-0.05	4450	18.5	0.11	10400	130	-0.1	1350	-5	13	6	210	-5	3.4	18.5	450	-0.5	-0.5	2.7	1.1	260	0.22	-0.2	4.6	1850	-0.1	0.1	0.92	36	-0.1	7.5	0.7	24
R448142	0.28	-0.05	3200	19.5	0.11	8950	110	0.1	900	-5	13	6	200	-5	3.4	13	550	-0.5	-0.5	2.7	0.9	350	0.22	-0.2	3.1	900	-0.1	0.1	0.72	26	0.1	9	0.75	15
R448143	0.32	-0.05	6050	25.5	0.15	11800	195	0.1	2050	-5	18.5	13	270	-5	4.8	26.5	350	-0.5	-0.5	3.8	1.3	195	0.29	-0.2	6	2700	-0.1	0.15	0.93	46	-0.1	10.5	0.95	31
R448144	0.39	-0.05	7700	30	0.18	10100	320	1.1	3050	-5	21.5	26	300	15	6	33.5	350	-0.5	-0.5	4.4	1.5	180	0.35	-0.2	7.5	1600	0.1	0.15	1.9	56	0.1	12	1.1	46
R448145	0.17	-0.05	4350	16	0.09	12900	110	-0.1	2750	-5	11.5	8	165	-5	3.1	21	350	-0.5	-0.5	2.3	0.7	220	0.16	-0.2	4.3	1350	-0.1	0.05	1.55	39	-0.1	5.5	0.6	31
R448146	0.24	-0.05	4800	19	0.12	10000	230	0.2	3350	-5	14	11	340	-5	3.8	18	700	-0.5	-0.5	3	1	250	0.22	-0.2	5.5	1450	-0.1	0.1	1.3	45	0.6	7.5	0.75	33
R448147	0.44	-0.05	3950	29	0.17	16400	400	0.3	1750	-5	22.5	12	185	20	5.5	13.5	550	-0.5	-0.5	4.9	0.8	600	0.39	-0.2	3.6	1100	-0.1	0.2	0.91	36	0.3	13.5	1.15	26
R448148	0.19	-0.05	4550	16	0.11	9100	140	0.1	3350	-5	11.5	6	260	10	3.1	15	650	-0.5	-0.5	2.6	1.1	340	0.17	-0.2	5	1150	-0.1	0.1	1.55	43	0.2	6.5	0.6	24
R448149	0.18	-0.05	4500	13	0.08	18200	140	-0.1	3650	-5	10	9	270	-5	2.6	18.5	400	-0.5	-0.5	2.2	1.2	350	0.16	-0.2	3.7	1450	-0.1	0.05	0.65	43	-0.1	5	0.55	29
R448150	0.26	-0.05	3100	16.5	0.1	6800	175	0.2	1150	-5	12	7	320	-5	3	12	450	-0.5	-0.5	2.4	0.7	230	0.22	-0.2	2.7	850	-0.1	0.1	0.54	26	-0.1	9	0.7	16
R448151	0.51	-0.05	10000	38	0.24	14700	430	0.4	4250	-5	28	24	290	10	7.5	40.5	200	-0.5	-0.5	5.5	2.5	130	0.46	-0.2	13	3850	0.2	0.25	1.2	88	1	15	1.55	55
R448152	0.32	-0.05	4250	22.5	0.14	16000	370	0.2	1550	-5	16.5	14	210	5	4.2	17	200	-0.5	-0.5	3.4	1	310	0.27	-0.2	4.5	1350	0.1	0.15	0.73	43	-0.1	10.5	0.9	31
R448153	0.48	-0.05	12400	40	0.23	27100	550	0.3	5000	5	28.5	30	320	15	8	48	150	-0.5	-0.5	5.5	2.1	180	0.45	-0.2	13	2900	0.3	0.2	1.2	74	0.8	14.5	1.4	68

Appendix 1.2
Analyses of samples from augered drill holes

Appendix 1.2

Wadnaminga >6mm augered samples

					Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Hg	Ho
					Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	AA6	IC3R
					LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.05	0.02
Sample_no	Field_no	Northing	Easting	Error	Description																								
R448040	WDA1	6398624	429127	3.7	calcrete; 0.15m	0.2	55100	14	18			550	0.3	90600	0.1	50	16	39	2.9	37	2.1	0.95	1.1	30700	14	3.4	4	-0.05	0.34
R448041	WDA2	6398670	429101	3.7	calcrete; 0.15m; close to outcrop of siltstone	0.1	45600	10.5	14			470	-0.1	102000	0.2	41.5	13	30	2.4	14	2	0.95	1	25400	11.5	3	3	-0.05	0.34
R448042	WDA3	6398713	429077	3.7	calcareous material at base of hole; 0.26m	0.2	49700	23.5	71	44		360	0.5	17000	0.2	41.5	15	42	2.1	21	2.1	1	1.05	34200	12.5	3.1	3	-0.05	0.35
R448043	WDA4	6398735	429062	3.7	calcrete; 0.65m	0.1	35900	16	28			390	0.2	146000	0.2	28	13.5	29	2	18	1.8	0.8	0.9	29300	10	2.4	2	-0.05	0.3
R448044	WDA5	6398754	429049	3.7	nodular calcrete; 0.68m	0.2	40200	25	29			380	0.5	117000	0.4	40	15	34	1.9	31	2.1	0.95	0.98	27400	11	2.9	2	-0.05	0.34
R448045	WDA6	6398780	429035	4.1	soil and nodular calcrete; 0.67m; close to small drainage gully	0.1	28700	18.5	27	25		350	0.1	177000	0.5	34.5	14.5	25	1.2	22	2.3	1.1	0.99	20400	8	3.2	2	-0.05	0.4
R448046	WDA7	6398801	429021	3.7	soil and nodular calcrete; 0.65m	0.1	25700	42.5	83	100	100	500	0.5	140000	0.6	27.5	10	23	1	21	1.75	0.85	0.85	18300	7	2.4	1	-0.05	0.31
R448047	WDA8	6398824	429008	3.7	nodular calcrete; 0.53m	-0.1	23500	12.5	57			650	-0.1	196000	0.4	19.5	8.5	20	1.1	16	1.4	0.7	0.75	13200	6	1.9	1	-0.05	0.25
R448048	WDA9	6398845	428996	3.7	calcrete and siltstone; 0.65m	-0.1	36300	19	23			1100	-0.1	147000	0.3	22	10.5	33	1	14	1.4	0.7	0.89	21900	10	1.85	2	-0.05	0.25
R448049	WDA10	6398888	428970	3.7	soil and calcrete nodules; 0.42m	-0.1	25600	5.5	13			310	-0.1	183000	0.3	29.5	10.5	19	1.5	17	2.5	1.25	0.98	15600	6.5	3.2	1	-0.05	0.45
R448050	WDA11	6398932	428943	3.7	calcrete over siltstone; 0.31m; close to outcrop of weathered siltstone	0.1	46100	8	13			290	-0.1	61700	0.1	46.5	17	39	2.8	19	2.1	1.05	0.97	31100	12.5	3	3	-0.05	0.38
R448051	WDA12	6398973	428920	4.7	soil and weathered siltstone; 0.66m; relatively abundant qz lag	-0.1	34700	2	2			240	0.2	16500	-0.1	38	11.5	40	1.7	31	1.95	0.9	0.82	28300	9.5	2.7	2	-0.05	0.33
R448052	WDA13	6398982	428725	4	soil, calcrete and siltstone; 0.6m; qz and grey-green siltstone lag	0.2	35300	5.5	5			180	0.1	69800	-0.1	26	17.5	58	2.2	18	2.1	1.1	0.66	29600	10	2.3	2	-0.05	0.38
R448053	WDA14	6398930	428754	4	soil and calcrete; 0.65m	0.1	24700	10	6			240	0.1	126000	0.7	31.5	10.5	24	1.2	19	1.9	0.9	0.76	18200	6.5	2.5	1	-0.05	0.32
R448054	WDA15	6398897	428774	4.1	soil and calcrete; 0.4m	-0.1	26600	5	-1			280	-0.1	201000	0.2	31	11.5	23	1.2	20	2.4	1.15	0.93	16200	6	2.9	1	-0.05	0.42
R448055	WDA16	6398851	428800	4.1	soil and siltstone (in part coated by calcrete); 0.15m; close to outcrop of weathered siltstone	0.1	40100	13	4			300	0.1	91000	0.2	43	13.5	31	1.9	19	2.8	1.35	1.1	27300	10	3.6	2	-0.05	0.48
R448056	WDA17	6398829	428812	4.2	soil and calcrete nodules; 0.65m; siltstone lag	0.2	35000	19.5	12			330	0.4	108000	0.1	38	10.5	33	1.3	21	1.9	0.85	0.94	23700	9.5	2.9	2	-0.05	0.32
R448057	WDA18	6398807	428827	4.1	soil and calcrete nodules; 0.65m	0.1	24900	31	61	54		550	0.1	209000	1.7	24	22	19	1	17	1.8	0.85	0.9	16600	6	2.4	1	-0.05	0.3
R448058	WDA19	6398786	428843	4.2	soil and calcrete nodules; 0.6m	-0.1	23800	33.5	150			500	-0.1	169000	0.4	21	27	22	1.2	24	1.95	1	0.79	15100	6	2.3	1	-0.05	0.36
R448059	WDA20	6398762	428852	4.5	soil and calcrete nodules; 0.67m; in gap between lines of old workings	0.2	38900	60	120			430	0.6	111000	0.8	40.5	26	31	1.7	61	2.7	1.3	1.15	31400	10	3.6	2	-0.05	0.47
R448060	WDA21	6398742	428866	3.9	soil and calcrete nodules; 0.65m; close to outcrop of 'honeycomb-textured' rock and siltstone	0.1	19000	16	65	65		500	0.2	169000	0.7	22	9	12	1.1	16	1.7	0.8	0.82	11700	4.6	2.3	-1	-0.05	0.3
R448061	WDA22	6398716	428879	3.9	nodular calcrete; 0.65m; nodules at surface	-0.1	15500	7.5	17			1850	-0.1	263000	0.4	20.5	12.5	9	1.1	22	1.85	0.9	1.3	10100	4.1	2.5	-1	-0.05	0.32
R448062	WDA23	6398694	428892	3.9	nodular calcrete; 0.67m; nodules at surface	-0.1	19800	7	41			1950	-0.1	244000	0.2	27	13.5	13	1.3	16	1.8	0.8	1.4	11900	5	2.7	-1	-0.05	0.32
R448063	WDA24	6398646	428917	3.8	nodular calcrete; 0.65m; nodules at surface; qz lag	-0.1	15300	7.5	36			550	0.2	271000	0.2	24	24.5	10	0.9	26	2.7	1.3	1.15	9450	3.7	3.6	-1	-0.05	0.49
R448064	WDA25	6398606	428941	3.8	nodular calcrete; 0.65m	-0.1	17200	6.5	35			270	-0.1	232000	0.1	25.5	10.5	10	1	16	1.55	0.75	0.61	10400	4.2	2.1	-1	-0.05	0.27
R448065	WDA26	6398565	428784	4.4	soil and calcrete-coated bedrock; 0.2m	-0.1	33800	3	3			360	-0.1	180000	-0.1	35	10.5	22	1.8	15	1.9	0.85	0.92	18800	8.5	2.9	2	-0.05	0.31
R448066	WDA27	6398605	428754	4.4	soil and calcrete-coated bedrock; 0.12m; near outcrop of siltstone	0.1	53000	3.5	1			420	-0.1	102000	-0.1	37	15	36	2.5	18	1.7	0.8	0.96	31900	14	2.8	3	-0.05	0.27
R448067	WDA28	6398648	428726	4.3	soil and calcrete-coated bedrock; 0.1m; close to outcrop of siltstone and ?dolomite	-0.1	19500	0.5	4	5		185	-0.1	276000	-0.1	12.5	9.5	17	1.4	15	1.15	0.55	0.52	12300	5	1.55	1	-0.05	0.19
R448068	WDA29	6398695	428701	4.3	soil and calcrete-coated bedrock; 0.3m; close to outcrop of siltstone	-0.1	36500	4.5	1			290	0.1	169000	0.1	30.5	17.5	30	1.8	29	1.95	0.9	0.91	26000	9.5	2.7	2	-0.05	0.33
R448069	WDA30	6398715	428688	4.2	soil and calcrete-coated bedrock; 0.6m; close to outcrop of siltstone	-0.1	30600	4.5	2			280	-0.1	202000	0.2	26.5	20	23	1.4	46	1.85	0.9	0.83	22900	8	2.6	2	-0.05	0.31
R448070	WDA31	6398736	428680	4.2	soil and nodular calcrete; 0.61m; close to outcrop of 'honeycomb-textured' rock	0.2	33500	6.5	6			700	-0.1	197000	0.2	22	12.5	25	1.5	13	1.55	0.75	0.86	21300	8.5	2.1	2	-0.05	0.27
R448071	WDA32	6398759	428607	9	soil and nodular calcrete; 0.52m; close to outcop of siltstone	0.1	29800	21	24			470	-0.1	180000	0.7	26.5	12	27	1.3	15	1.7	0.8	0.84	19300	8	2.3	2	-0.05	0.29
R448072	WDA33	6398786	428654	3.7	soil and calcrete-coated grey-gn siltstone; close to old workings	0.1	39800	73	59			420	0.1	152000	1.2	27	14	35	2	43	1.8	0.85	0.85	26400	10	2.4	2	-0.05	0.3
R448073	WDA34	6398805	428645	3.5	soil and calcrete-coated bedrock; 0.6m; close to old waste-rock dump	0.2	40900	115	74	94	89	450	0.9	165000	3.4	41	17.5	28	1.2	66	1.95	0.95	1.15	27500	10.5	2.9	2	-0.05	0.32
R448074	WDA35	6398830	428632	4.6	soil and nodular calcrete; 0.65m	-0.1	31200	12.5	3			280	-0.1	218000	0.2	21.5	11	20	1.5	15	1.95	1	0.75	18000	8	2.3	2	-0.05	0.35
R448075	WDA36	6398852	428622	3.8	soil and ?bedrock; 0.1m; qz and calcrete lag	-0.1	24900	3.5	-1			210	0.1	255000	-0.1	34	11	21	0.9	23	2	0.95	0.97	13500	6	3	1	-0.05	0.34
R448076	WDA37	6398897	428599	3.5	soil and calcrete-coated siltstone; 0.23m	0.1	36500	2	-1			155	0.1	144000	-0.1	39	12.5	31	2.2	20	2.4	1.1	1.05	24000	9	3.3	2	-0.05	0.4
R448077	WDA38	6398943	428580	4.2	soil and calcrete-coated siltstone; 0.16m; close to outcrop of siltstone	0.1	35600	5.5	-1			260	0.3	190000	-0.1	26.5	26	75	2.3	18	2.8	1.4	0.91	28900	9.5	3.2	2	-0.05	0.51
R448078	WDA39	6398987	428558	3.3	soil and calcrete-coated siltstone; 0.32m; close to outcrop of siltstone	0.2	51800	2	-1			210	0.3	91000	-0.1	44.5	20	83	2.8	51	3.3	1.6	1.15	38400	13.5	3.9	3	-0.05	0.59
R448079	WDA40	6399030	428537	3.3	soil and calcrete-coated siltstone; 0.21m; close to outcrop of siltstone	0.3	55800	7.5	-1			320	0.2	6400	-0.1	48.5	23.5	79	3.3	43	2.5	1.05	1.15	49000	16	3.6	4	-0.05	0.38
R448080	WDA41	6398542	428979	4.7	soil and nodular calcrete; 0.67m	-0.1	12900	3	9	8		170	0.2	208000	0.1	17	5.5	11	0.7	20	1.65	0.85	0.67	7700	2.8	2.3	-1	-0.05	0.3
R448081	WDA42	6398497	429008	4.6	soil and nodular calcrete; 0.22m	-0.1	27000	3.5	8			195	0.3	159000	0.1	31.5	10.5	21	1.5	26	2.1	1	0.82	16400	6.5	2.8	1	-0.05	0.36
R448082	WDA43	6398455	429035	4.6	nodular calcrete; 0.65m	-0.1	25100	4.5	3			320	0.2	183000	0.1	33	8.5	23	1.4	25	2.1	1	0.83	16000	5.5	2.7	1	-0.05	0.38
R448083	WDA44	6398412	429062	4.5	nodular calcrete; 0.65m	-0.1	27700	5	6			200	0.3	148000	0.1	31	10.5	20	1.7	27	2	1	0.78	18900	6.5	2.7	1	-0.05	0.35
R448084	WDA45	6398373	429087	4.4	nodular calcrete; 0.65m	-0.1	28600	3.5	-1			170	0.2	190000	-0.1	26	9.5	17	2.1	25	1.75	0.85	0.67	16400	6.5	2.2	2	-0.05	0.3
R448085	WDA46	6398325	429113	4.3	nodular calcrete; 0.65m; immed. N of old workings (with qv)	-0.1	31900	9	10			320	0.2	206000	0.1	30	8	16	1.7	41	1.7	0.8	0.74	15300	7	2.4	2	-0.05	0.29
R448086	WDA47	6398278	429143	4.2	nodular calcrete; 0.67m; immed.S of old workings (with qv); qz lag	-0.1	15900	33.5	19			175	0.4	137000	0.1	17	8.5	11	1.2	36	1.2	0.55	0.46	20800	3.7	1.5	-1	-0.05	0.21
R448087	WDA48	6398237	429166	4.1	soil and nodular calcrete; 0.65m; immed. S of old workings; qz lag	0.2	28300	8.5	5			240	0.5	158000	0.3	29.5	14	17	1.3	68	1.75	0.85	0.69	34800	6.5	2.3	1	-0.05	0.3
R448088	WDA49	6398195	429200	3.9	soil and nodular calcrete; 0.65m	-0.1	22600	5.5	3			200	0.2	179000	0.1	28	7.5	13	2	25	1.6	0.75	0.63	14500	5	2.1	1	-0.05	0.27
R448089	WDA50	6398556	429187	4.6	soil and nodular calcrete; 0.65m	-0.1	27900	9	8			340	0.3	69600	0.2	33	34.5	20	1.7	25	2.5	1.2	0.91	15800	7	3.5	2	-0.05	0.46
R448090	WDA51	6398632	429247	5	calcrete on bedrock; 0.16m	-0.1	36500	23.5	7			550	0.2	114000	0.2	35	11.5	23	1.3	28	1.5	0.75	0.77	16200	9.5	2.4	3	-0.05	0.27

Appendix 1.2

Wadnaminga >6mm augered samples

	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																	
R448040	-0.05	14800	34.5	0.19	24000	185	0.6	9500	-5	26	22	240	5	7	78	200	-0.5	-0.5	5.5	1.9	150	0.35	-0.2	14	2050	0.3	0.15	1.55	68	0.7	11	1.1	55
R448041	-0.05	16200	27.5	0.18	18600	195	0.4	7050	-5	21.5	23	210	10	6	78	200	-0.5	-0.5	4.6	1.4	300	0.32	-0.2	9	1950	0.3	0.15	1.05	65	0.2	11	1.1	72
R448042	-0.05	16400	27	0.19	13500	330	0.7	8750	5	21.5	23	250	20	5.5	89	100	-0.5	-0.5	4.5	1.4	89	0.34	-0.2	9	2550	0.3	0.15	0.87	90	0.4	11.5	1.15	51
R448043	-0.05	9150	19.5	0.15	34300	600	0.4	6350	-5	16	16	320	65	4.2	57	150	-0.5	-0.5	3.6	0.8	500	0.28	-0.2	5.5	1850	0.2	0.15	1.2	98	-0.1	9.5	0.9	62
R448044	-0.05	12900	26	0.18	22400	340	0.5	6200	-5	20.5	22	330	350	5.5	74	200	-0.5	-0.5	4.3	0.9	400	0.32	-0.2	7.5	1900	0.3	0.15	0.86	79	0.1	11	1.05	68
R448045	-0.05	7700	25	0.19	16800	370	0.4	5450	-5	21	19	340	15	5.5	45.5	550	-0.5	-0.5	4.5	0.9	550	0.35	-0.2	6	1600	0.1	0.2	0.85	62	0.6	13.5	1.15	41
R448046	0.1	9700	19.5	0.15	29100	240	0.5	3050	-5	16.5	12	260	25	4.2	56	500	-0.5	-0.5	3.6	0.8	800	0.27	-0.2	4.7	1200	0.2	0.15	1.2	67	0.6	10	0.95	52
R448047	-0.05	8600	14.5	0.12	43500	170	0.4	3650	-5	12.5	9	230	5	3.2	46	450	-0.5	-0.5	2.9	0.6	1250	0.21	-0.2	4.3	1250	0.2	0.1	1.35	47	0.5	8	0.75	45
R448048	-0.05	15000	15.5	0.15	36600	185	0.2	3950	-5	12.5	17	280	15	3.2	77	500	-0.5	-0.5	3.1	0.8	900	0.21	-0.2	4.8	1500	0.3	0.1	0.86	77	1	8	0.85	96
R448049	-0.05	5650	25	0.21	28100	220	0.7	3800	-5	20.5	11	290	5	5	38	300	-0.5	-0.5	4.4	0.8	750	0.37	-0.2	5.5	1750	-0.1	0.2	0.89	47	0.2	15.5	1.3	37
R448050	-0.05	11000	28.5	0.21	52000	470	0.5	8600	-5	22	19	390	5	6	71	150	-0.5	-0.5	4.5	1	800	0.33	-0.2	10	2300	0.2	0.2	2.3	89	0.3	12	1.25	88
R448051	-0.05	10100	23	0.16	9550	230	0.6	3150	-5	19.5	17	190	5	5	51	150	-0.5	-0.5	4.1	1.5	110	0.31	-0.2	9	3400	0.2	0.15	1.1	53	-0.1	10	1	42
R448052	-0.05	11200	15.5	0.19	19700	260	0.7	2000	-5	13.5	21	390	-5	3.5	75	150	-0.5	-0.5	3	1.5	210	0.29	-0.2	6.5	2950	0.3	0.2	0.86	84	0.3	12	1.25	44
R448053	-0.05	6900	21	0.16	21000	175	0.7	2650	-5	17	13	240	-5	4.4	38	250	-0.5	-0.5	3.7	1.4	500	0.29	-0.2	5.5	2400	-0.1	0.15	0.77	48	0.5	10.5	1	30
R448054	-0.05	5100	22	0.19	14200	460	0.3	6900	-5	17.5	14	300	-5	4.5	29.5	200	-0.5	-0.5	3.8	0.7	280	0.34	-0.2	4.4	1550	-0.1	0.2	0.66	59	-0.1	13.5	1.3	37
R448055	-0.05	14000	27	0.22	14800	550	0.6	5850	-5	23.5	19	380	10	6	64	200	-0.5	-0.5	5	1.2	130	0.42	-0.2	8.5	2750	0.3	0.2	0.86	69	6	15	1.45	75
R448056	-0.05	10400	26	0.16	14000	220	2.6	4850	-5	21	18	200	10	5.5	49	300	-0.5	-0.5	4.3	0.9	145	0.31	-0.2	7	1650	0.2	0.15	0.77	65	2	10	1	73
R448057	-0.05	7800	18.5	0.14	37200	750	0.6	4850	-5	15	21	270	70	3.8	42	250	-0.5	-0.5	3.5	0.7	1050	0.27	-0.2	4.6	1200	0.1	0.15	1.3	59	0.9	10	0.9	105
R448058	-0.05	7300	14	0.17	56800	200	0.4	3950	-5	12.5	21	165	45	3.1	54	450	-0.5	-0.5	3	0.6	1100	0.27	-0.2	3.7	1100	0.3	0.15	3.7	54	0.4	13	1.05	140
R448059	-0.05	11000	27.5	0.22	22800	470	0.7	7200	-5	22	27	320	85	6	60	450	-0.5	-0.5	4.9	1.1	470	0.42	-0.2	8	2100	0.4	0.2	1.75	92	1.2	16	1.4	105
R448060	-0.05	4950	18	0.15	70500	430	0.3	4350	-5	14.5	17	170	-5	3.8	38	300	-0.5	-0.5	3.2	0.7	1550	0.26	-0.2	4	1100	0.1	0.15	1.85	50	0.4	9.5	0.9	28
R448061	-0.05	3500	20.5	0.16	17100	220	0.3	2400	-5	15.5	11	165	5	3.9	32	950	-0.5	-0.5	4.2	0.6	900	0.27	-0.2	3.3	1200	-0.1	0.15	0.79	35	0.3	11.5	0.9	22
R448062	-0.05	5000	24	0.14	20000	180	0.3	3650	-5	18	12	180	10	4.7	41	1050	-0.5	-0.5	4.6	3.6	850	0.28	-0.2	4.5	1300	-0.1	0.15	1.1	46	0.2	10.5	0.9	30
R448063	-0.05	3550	22.5	0.2	11600	800	0.3	1750	-5	19.5	11	200	410	4.8	22	400	-0.5	-0.5	4.6	0.6	550	0.4	-0.2	3.4	1050	-0.1	0.2	0.69	44	0.2	16.5	1.3	35
R448064	-0.05	3700	17	0.13	27000	155	0.2	1850	-5	13.5	8	165	10	3.5	24.5	350	-0.5	-0.5	2.9	0.8	850	0.23	-0.2	4.2	1350	-0.1	0.1	0.72	33	0.1	9	0.75	23
R448065	-0.05	8650	26.5	0.15	15300	170	0.3	6550	-5	20.5	10	260	-5	5.5	43	400	-0.5	-0.5	4.4	1	230	0.32	-0.2	7	1750	0.1	0.15	0.9	46	0.1	10	0.95	42
R448066	-0.05	14000	25.5	0.17	27600	195	0.2	11400	-5	20.5	16	320	-5	5.5	69	200	-0.5	-0.5	4.3	1.1	140	0.29	-0.2	9.5	2100	0.3	0.15	1	76	0.2	8.5	1	74
R448067	-0.05	4500	12	0.09	12900	105	0.1	1950	-5	10	9	125	-5	2.5	28	300	-0.5	-0.5	2.1	0.6	185	0.17	-0.2	2.9	1300	-0.1	0.1	0.64	31	-0.1	6.5	0.6	27
R448068	-0.05	7850	21	0.17	37400	350	0.3	6950	-5	17.5	19	300	-5	4.6	48.5	300	-0.5	-0.5	3.9	0.7	470	0.31	-0.2	6.5	1650	0.2	0.15	0.98	71	-0.1	10	1	63
R448069	-0.05	6950	19	0.16	21000	410	0.3	7200	-5	15.5	17	360	-5	4	37.5	200	-0.5	-0.5	3.4	0.7	300	0.28	-0.2	5	1300	0.1	0.15	0.76	62	-0.1	10	1	41
R448070	-0.05	7350	15.5	0.14	21300	290	0.2	6300	-5	13	14	360	-5	3.3	33.5	250	-0.5	-0.5	3.2	0.7	430	0.24	-0.2	5.5	1700	0.1	0.1	0.72	69	-0.1	8	0.85	55
R448071	-0.05	8900	17.5	0.15	43200	350	0.2	5150	-5	14	13	300	10	3.6	47	250	-0.5	-0.5	3.2	0.8	700	0.27	-0.2	5	1400	0.1	0.15	1.1	76	0.3	9	0.9	54
R448072	0.05	12200	19	0.16	24700	390	0.3	8200	-5	15.5	16	330	90	4	57	450	-0.5	-0.5	3.4	1	280	0.28	-0.2	6	1950	0.2	0.15	0.85	80	0.4	9.5	1	165
R448073	0.05	10500	28.5	0.17	25000	280	0.2	5200	-5	22	20	320	260	6	50	300	-0.5	-0.5	4.6	0.9	310	0.31	-0.2	6	1450	0.2	0.15	0.87	82	0.6	10	1.05	290
R448074	-0.05	8100	18	0.18	17800	220	0.1	5100	-5	14	13	220	-5	3.6	41.5	200	-0.5	-0.5	3	0.7	250	0.27	-0.2	4.3	1600	0.2	0.15	0.68	58	0.9	11.5	1.1	57
R448075	-0.05	4450	28.5	0.16	14400	170	-0.1	4350	-5	22.5	8	270	-5	6	18	350	-0.5	0.5	4.3	0.6	260	0.32	-0.2	4.8	1250	0.1	0.15	0.59	38	0.5	11	1	42
R448076	-0.05	7200	30	0.2	19400	340	0.4	7500	-5	24	15	280	5	6.5	47	150	-0.5	-0.5	4.7	1.2	135	0.36	-0.2	6.5	2650	0.2	0.2	0.79	59	0.2	13	1.25	58
R448077	-0.05	11300	22	0.22	19800	280	0.1	1700	-5	18.5	17	480	-5	4.7	72	200	-0.5	-0.5	4	1.6	195	0.4	-0.2	7	3000	0.3	0.2	0.76	65	0.3	16	1.5	53
R448078	0.05	13500	30.5	0.26	28200	650	0.2	3900	-5	25	26	500	5	7	78	100	-0.5	-0.5	5	1.9	94	0.48	-0.2	9.5	2800	0.3	0.25	1	92	0.4	17.5	1.7	69
R448079	0.05	16400	29	0.22	20500	380	1	9100	10	25	29	190	-5	6.5	90	100	-0.5	-0.5	5.5	2.4	58	0.42	-0.2	11	4750	0.4	0.15	1.25	110	0.8	10.5	1.3	71
R448080	-0.05	2700	16.5	0.13	14100	110	0.8	1650	-5	14.5	5	155	-5	3.7	15	350	-0.5	-0.5	2.9	0.6	500	0.25	-0.2	2.5	950	-0.1	0.15	0.49	26	-0.1	10	0.8	20
R448081	-0.05	6750	22.5	0.17	14000	250	1	2450	-5	19	13	260	10	5	31	350	-0.5	-0.5	3.8	1.1	410	0.32	-0.2	6	2000	0.1	0.15	0.71	38	0.1	11.5	1.05	34
R448082	-0.05	5750	23	0.17	14200	250	0.3	2600	-5	18.5	11	290	5	4.9	25	500	-0.5	-0.5	3.8	1	480	0.32	-0.2	5.5	1800	0.1	0.15	0.76	41	0.2	12	1.1	33
R448083	-0.05	7100	21.5	0.17	14500	270	0.5	2600	-5	18	18	250	10	4.8	31.5	250	-0.5	-0.5	3.6	1.1	380	0.31	-0.2	6	2000	0.1	0.15	0.71	42	0.2	11	1.05	36
R448084	-0.05	5450	18	0.14	23100	220	0.4	4050	-5	14.5	11	180	5	4	28	300	-0.5	-0.5	3	1.2	350	0.26	-0.2	5.5	1650	0.2	0.15	0.86	43	0.1	9.5	0.9	26
R448085	-0.05	9450	21.5	0.14	14100	135	0.2	4650	-5	17.5	11	175	-5	4.7	39	300	-0.5	-0.5	3.5	1.6	440	0.27	-0.2	7.5	1450	0.2	0.1	1.1	44	0.4	9	0.85	21
R448086	-0.05	5350	12	0.1	26000	175	0.9	2250	-5	10.5	15	150	20	2.7	29.5	250	-0.5	0.5	2.1	0.7	500	0.18	-0.2	3.2	950	0.1	0.1	0.62	41	0.6	6.5	0.65	78
R448087	-0.05	10900	20.5	0.14	16800	200	1	5250	-5	16.5	14	195	-5	4.5	53	300	-0.5	1	3.4	0.9	550	0.26	-0.2	6.5	1300	0.2	0.15	1.05	55	0.5	9	0.9	20
R448088	-0.05	7200	19	0.13	35200	170	0.5	3300	-5	15.5	10	195	10	4.3	41	300	-0.5	-0.5	3.1	0.8	700	0.25	-0.2	5.5	1350	0.2	0.15	0.67	35	0.3	8.5	0.85	22
R448089	-0.05	9100	27	0.19	29400	1250	0.8	3400	-5	20.5	29	300	25	5.5	41.5	200	-0.5	-0.5	4.1	1.2	340	0.39	-0.2	7	1150	0.2	0.15	1	42	0.3	16	1.15	58
R448090	-0.05	15800	24	0.15	9400	170	0.7	2750	-5	19.5	15	210	15	5.5	74	200	-0.5	-0.5	3.8	2	260	0.26	-0.2	9.5	1400	0.2	0.15	0.84	55	1	8	0.85	37

Appendix 1.3
Analyses of rock-chip samples

Appendix 1.3

Wadnaminga rock chips

					Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe
					Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E
					LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100
Sample_no	Field_no	Northing	Easting	Error	Description																			
R448178	WDR1	6398990	428551	3.5	gy-gn siltstone	0.2	73300	3	4			260	1.1	10500	-0.1	36.5	31	135	5	74	3.3	1.8	0.93	56900
R448179	WDR2	6398806	429147	4.3	siltstone with bedding (from mine dump)	0.1	69400	2.5	4			470	-0.1	9100	0.5	35	20	62	3.7	18	1.65	0.8	0.93	48000
R448180	WDR3	6398806	429147	4.3	siltstone (from mine dump)	0.1	74500	2	3			400	0.1	7700	0.1	43.5	20	71	3.9	66	1.5	0.7	1	52800
R448181	WDR4	6398806	429147	4.3	quartz-carbonate rock (from mine dump)	0.2	29000	23	35	33		320	0.3	93200	2.4	10	8.5	29	0.4	56	1.2	0.55	0.84	38400
R448182	WDR5	6398806	429147	4.3	honeycomb'-textured rock (from mine dump)	-0.1	60900	29.5	19			390	0.4	5650	0.2	23.5	10.5	47	0.6	78	1.75	0.75	1.25	55700
R448443	NMR1				pyrite, with minor galena, from dump on New Milo workings	14.5	3200	2050	38900	60650	47550	30	3	700	8	4.5	22	10	0.2	165	0.26	0.15	0.11	114000
Element	Ga	Gd	Hf	Hg	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S	Sb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M
LLD	0.1	0.05	1	0.05	0.02	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2	0.1	50	0.5
Sample_no																								
R448178	20.5	3.1	4	-0.05	0.64	0.1	23900	18	0.35	45400	750	0.8	5650	-5	17.5	33	950	20		4.6		120	-50	-0.5
R448179	20	2.5	4	-0.05	0.29	0.1	23000	21	0.17	36400	270	0.5	14600	-5	18	22	420	-5		4.6		99	-50	-0.5
R448180	20.5	2.8	4	-0.05	0.24	0.05	20600	28	0.16	39800	230	0.4	16500	-5	23	24	420	-5		6		88	200	-0.5
R448181	4.8	1.4	1	-0.05	0.2	-0.05	9450	6.5	0.11	51900	1950	3.3	10500	-5	5.5	7	250	125		1.45		34.5	50	-0.5
R448182	13	2.3	4	-0.05	0.27	0.05	9350	16	0.16	3250	190	2.8	26500	-5	12.5	17	440	20		3.1		34.5	150	-0.5
R448443	1.9	0.3	-1	10	0.05	0.6	3050	3	0.02	420	45	2.3	380	-5	2.2	14	40	6150	-20	0.55	-0.2	13.5	103000	8
Element	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn								
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm								
Scheme	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E								
LLD	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2								
Sample_no																								
R448178	-0.5	3.8	3.5	49	0.44	-0.2	14	3800	0.6	0.3	1.55	125	1.8	19.5	2.2	105								
R448179	-0.5	3.7	2.3	82	0.28	-0.2	8.5	4250	0.5	0.15	0.88	110	0.8	8	1	105								
R448180	-0.5	4.6	4.1	72	0.3	-0.2	11.5	3850	0.4	0.1	1.1	96	0.6	7.5	0.9	110								
R448181	-0.5	1.65	2.3	110	0.19	-0.2	2.8	550	-0.1	0.1	1.35	27	-0.1	7	0.65	60								
R448182	-0.5	3.1	1.6	135	0.28	-0.2	10.5	2000	-0.1	0.1	8	110	0.3	8.5	0.95	25								
R448443	7	0.45	1.9	39.5	0.04	0.4	0.21	85	0.1	-0.05	0.38	10	0.3	1.45	0.15	440								

Appendix 1.4
Element plots for augered and calcrete samples

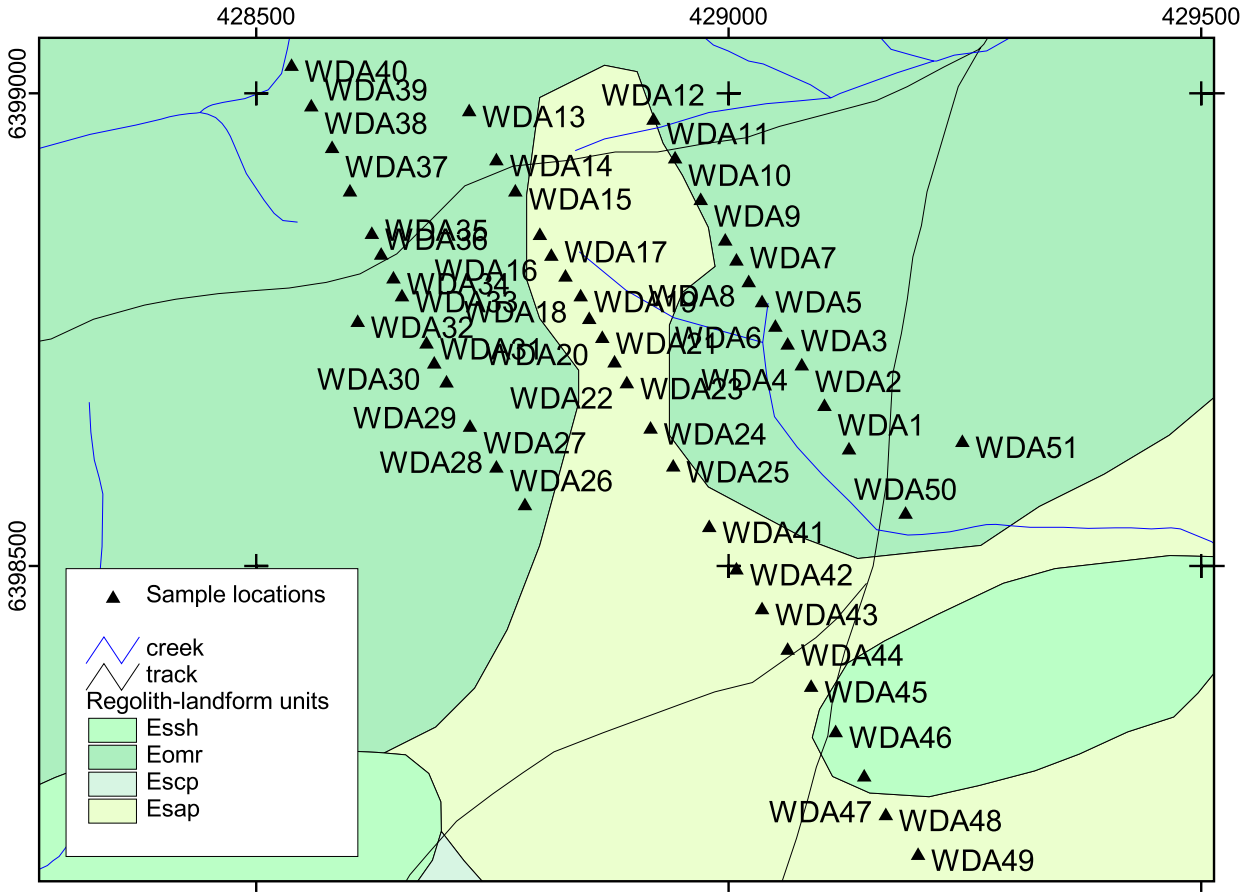


Figure A1.4.1. Distribution of augered samples at Wadnaminga

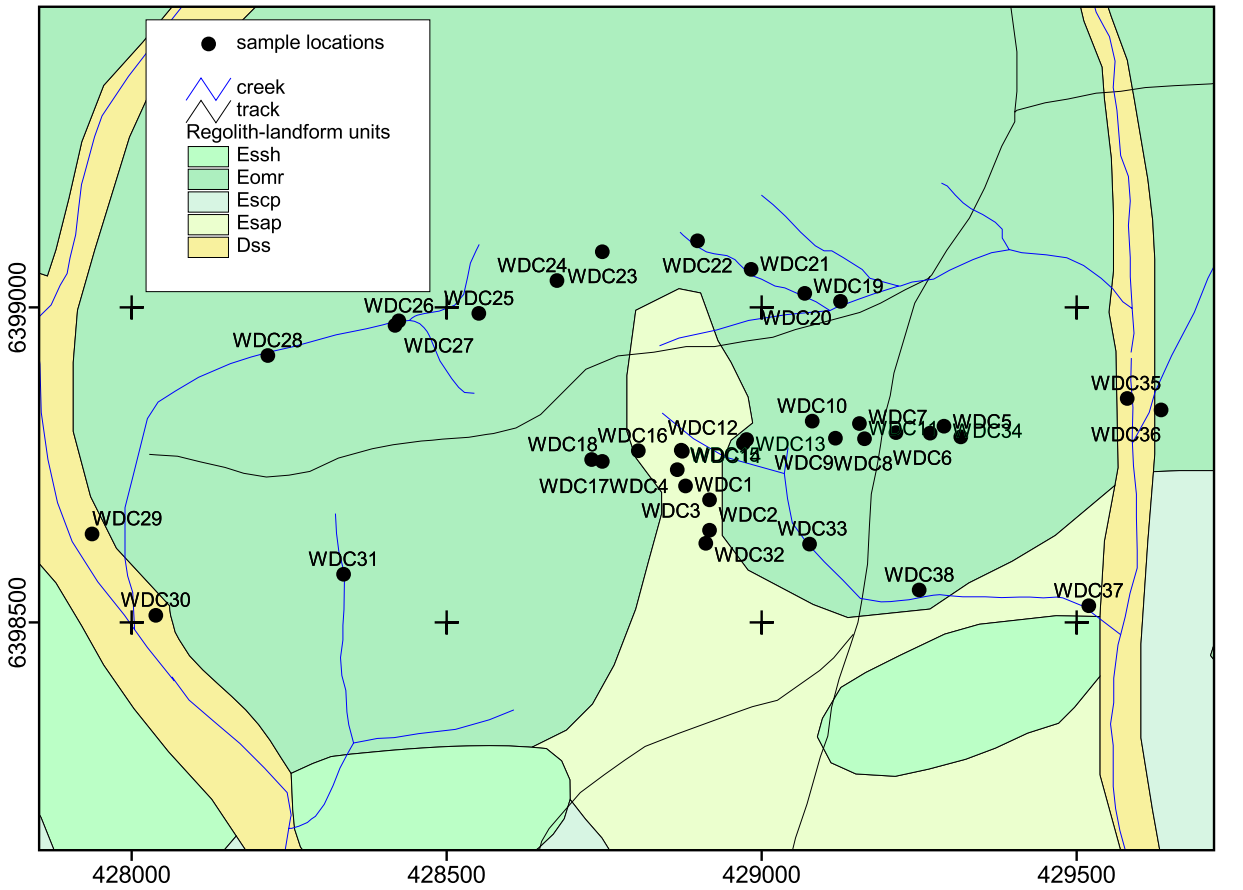


Figure A1.4.2. Distribution of calcrete samples at Wadnaminga

Essh - Lags of siltstone, mudstone and shale fragments on saprock, and in places saprolite is developed along fracture zones or drainage line. Low hills.
Eomr - Lags of rock fragments on mudstone, siltstone and shale, slightly weathered fractures and beddings. Long ranges with parallel valleys.
Escp - Thin proximal colluvium and locally-derived lithic fragments on saprock. Gently sloping pediments.
Esap - Thin proximal colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.
Dss - Unconsolidated fluvial sands and gravel. Modern stream channels.

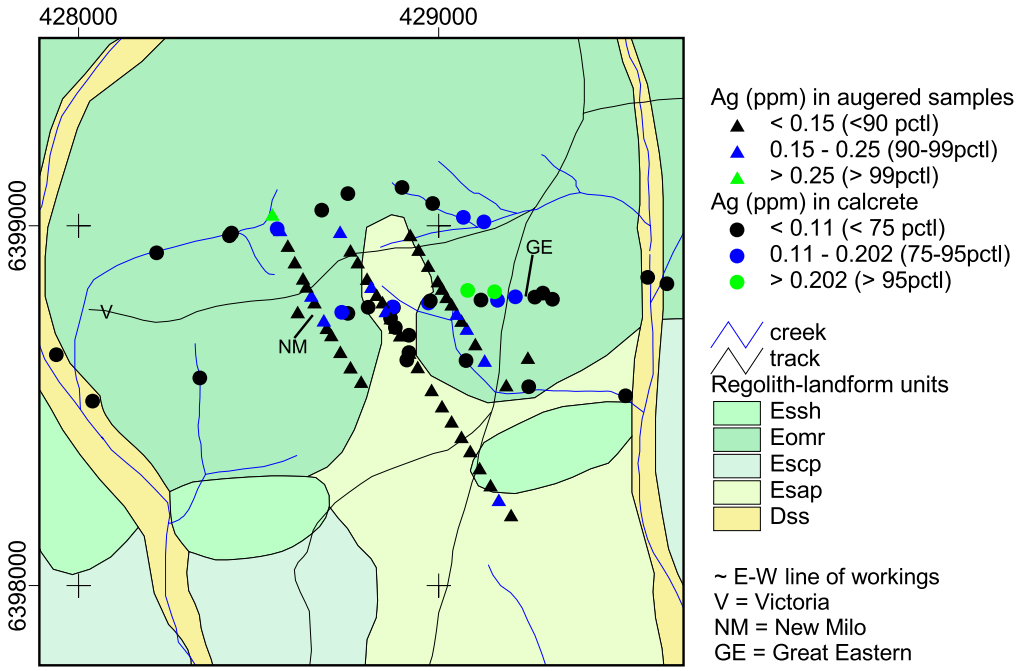


Figure A1.4.3. Distribution of Ag (ppm) in augered and calcrete samples

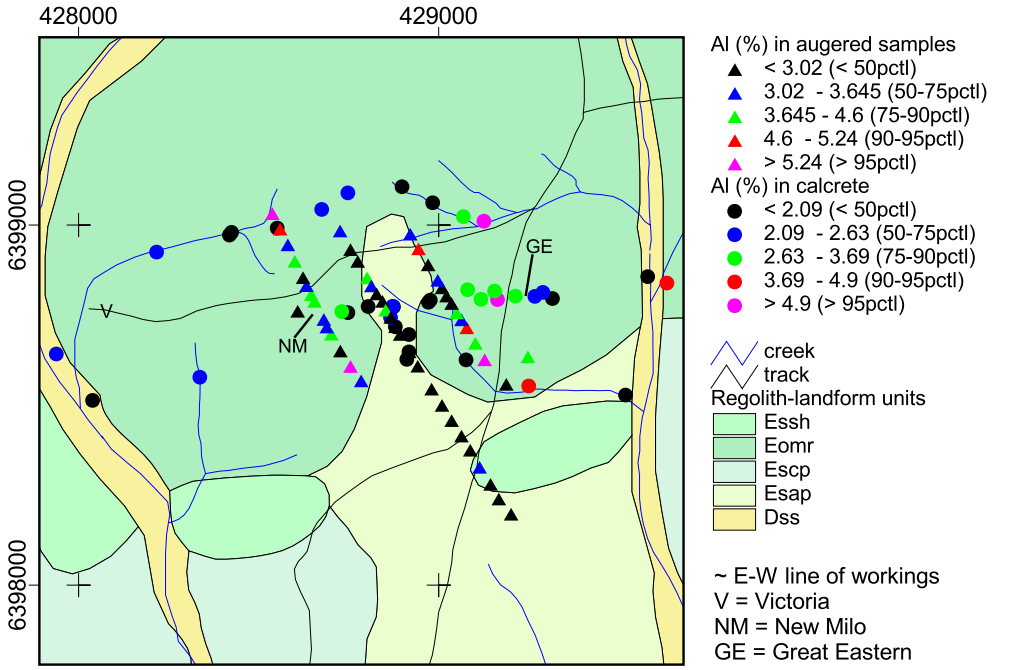


Figure A1.4.4. Distribution of Al (%) in augered and calcrete samples

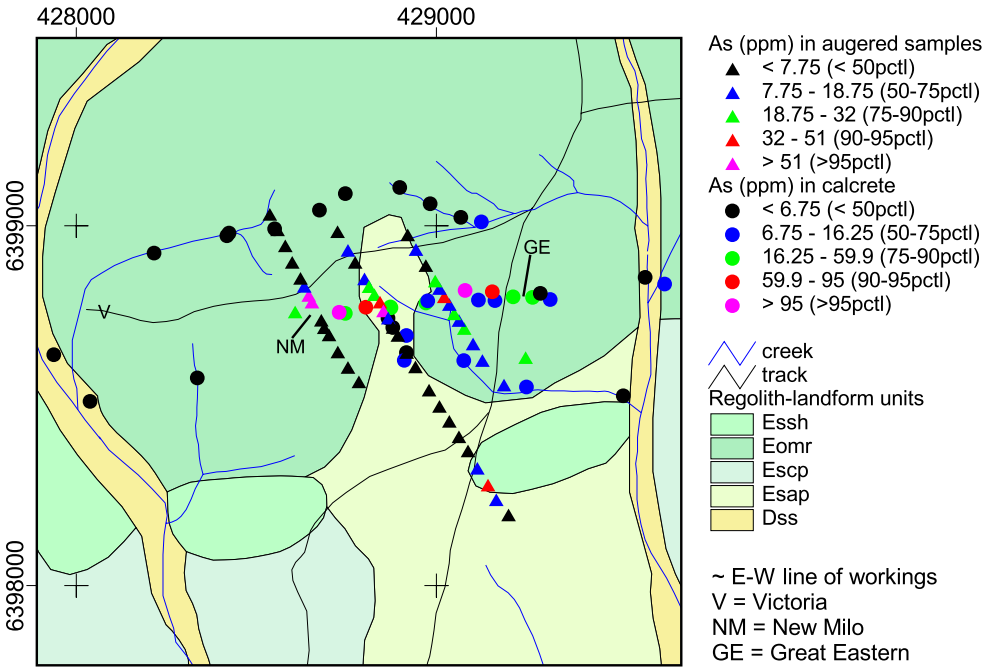


Figure A1.4.5. Distribution of As (ppm) in augered and calcrete samples

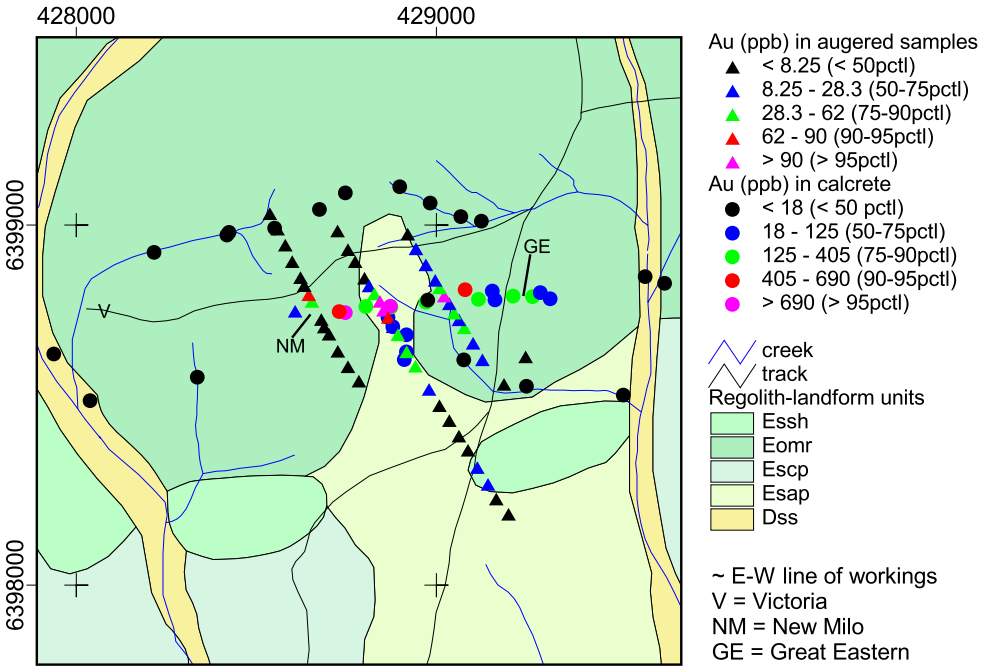


Figure A1.4.6. Distribution of Au (ppb) in augered and calcrete samples

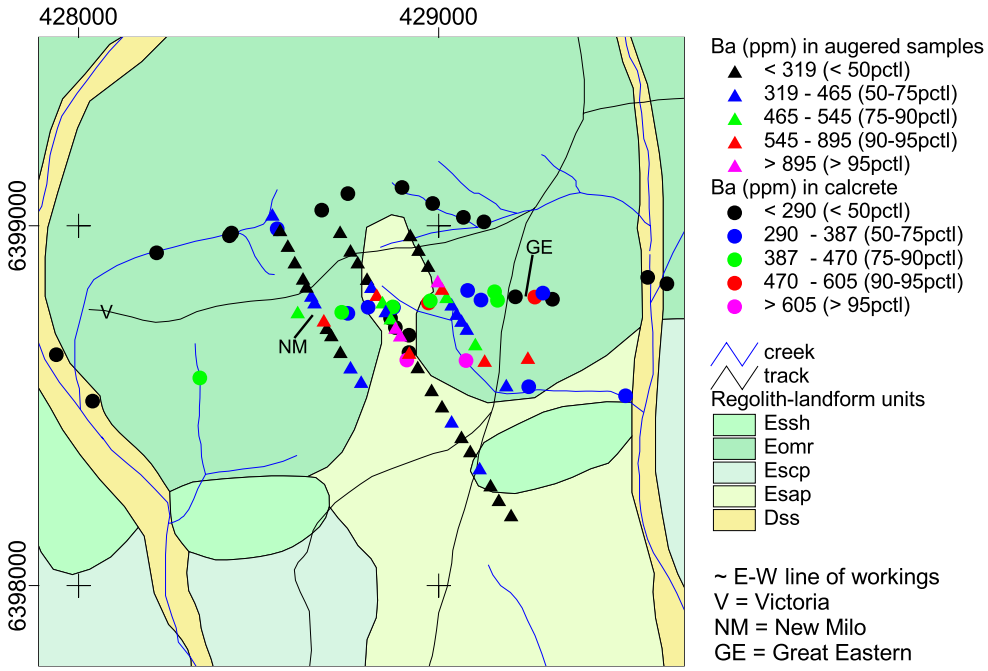


Figure A1.4.7. Distribution of Ba (ppm) in augered and calcrete samples

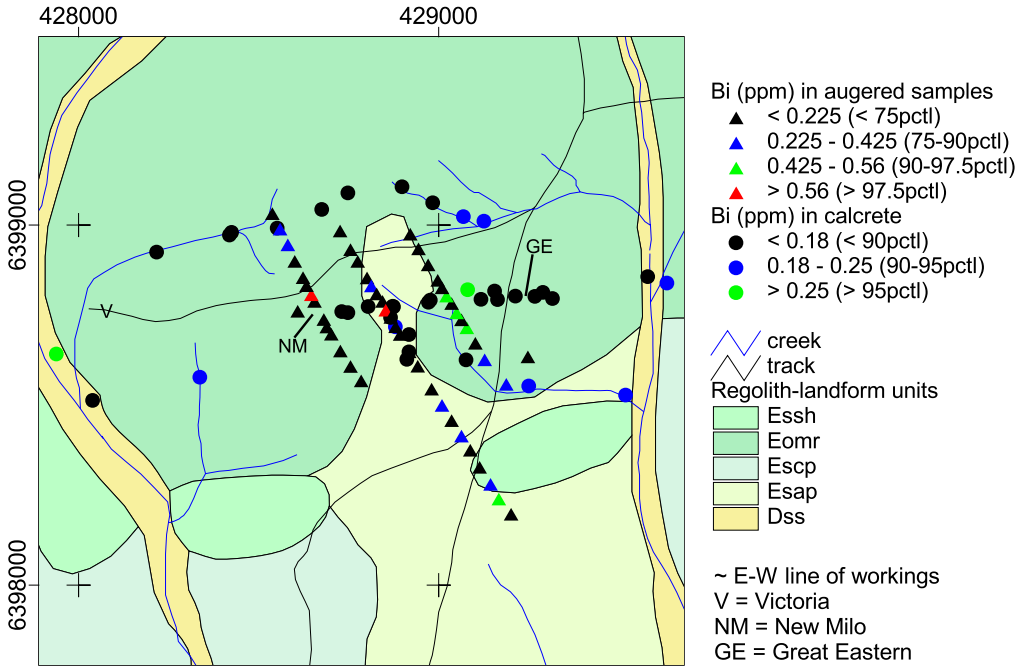


Figure A1.4.8. Distribution of Bi (ppm) in augered and calcrete samples

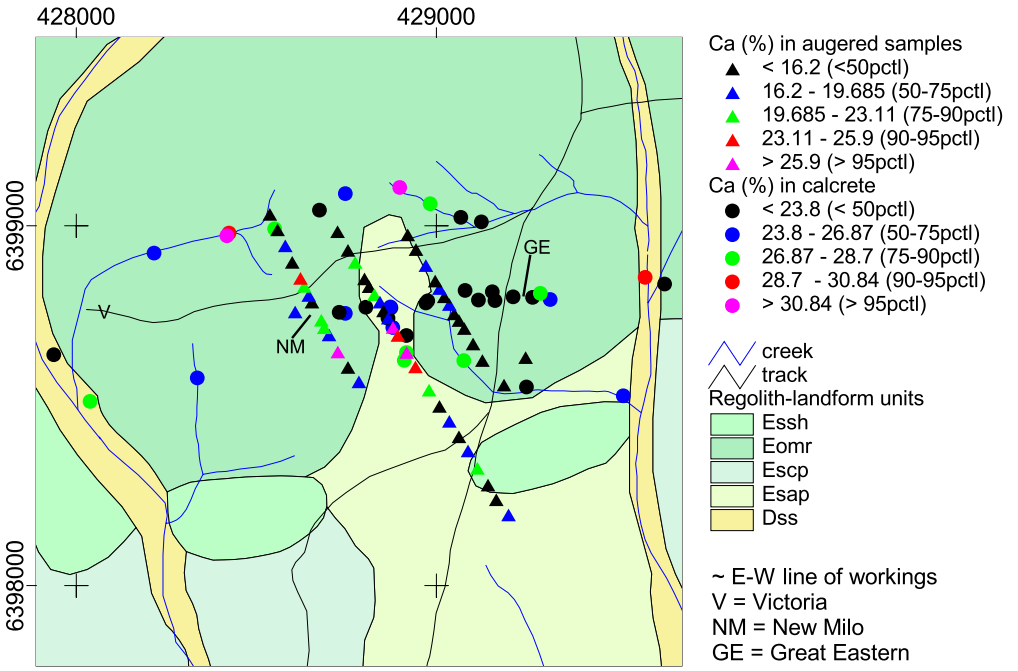


Figure A1.4.9. Distribution of Ca (%) in augered and calcrete samples

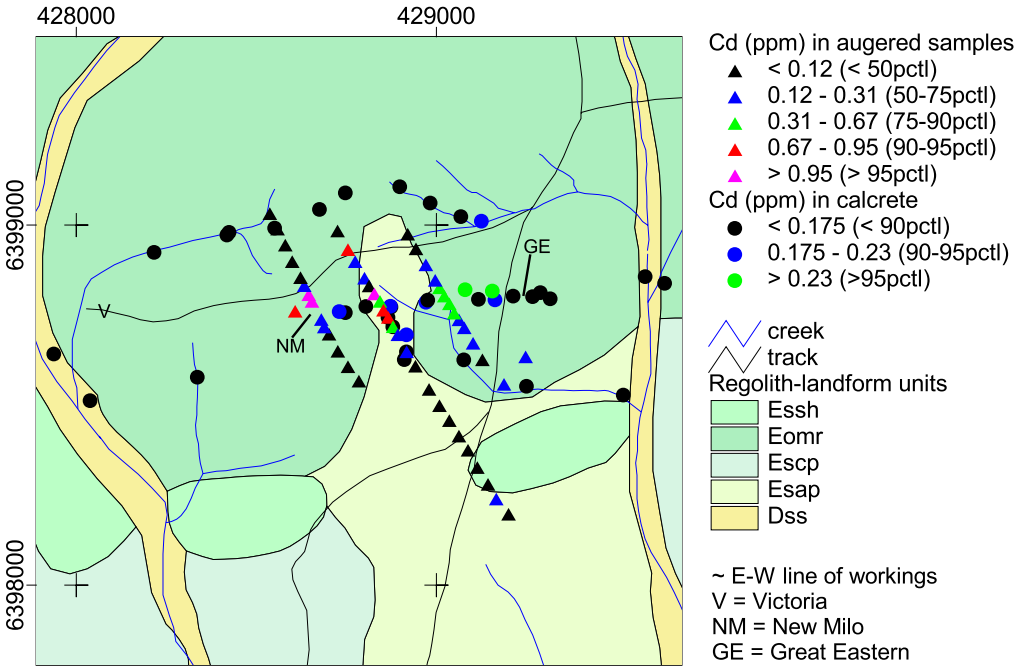


Figure A1.4.10. Distribution of Cd (ppm) in augered and calcrete samples

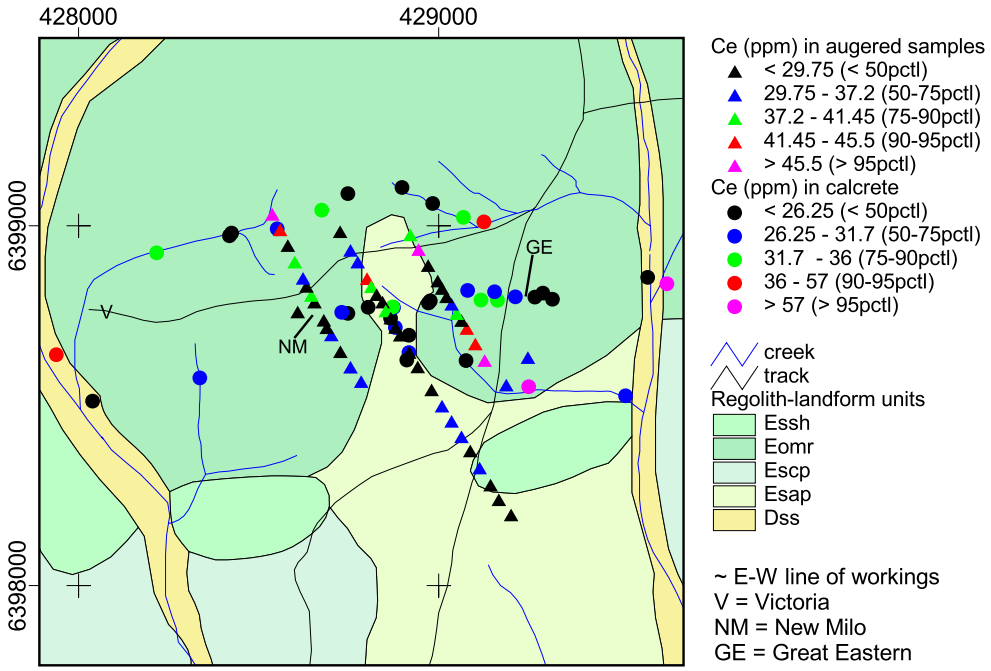


Figure A1.4.11. Distribution of Ce (ppm) in augered and calcrete samples

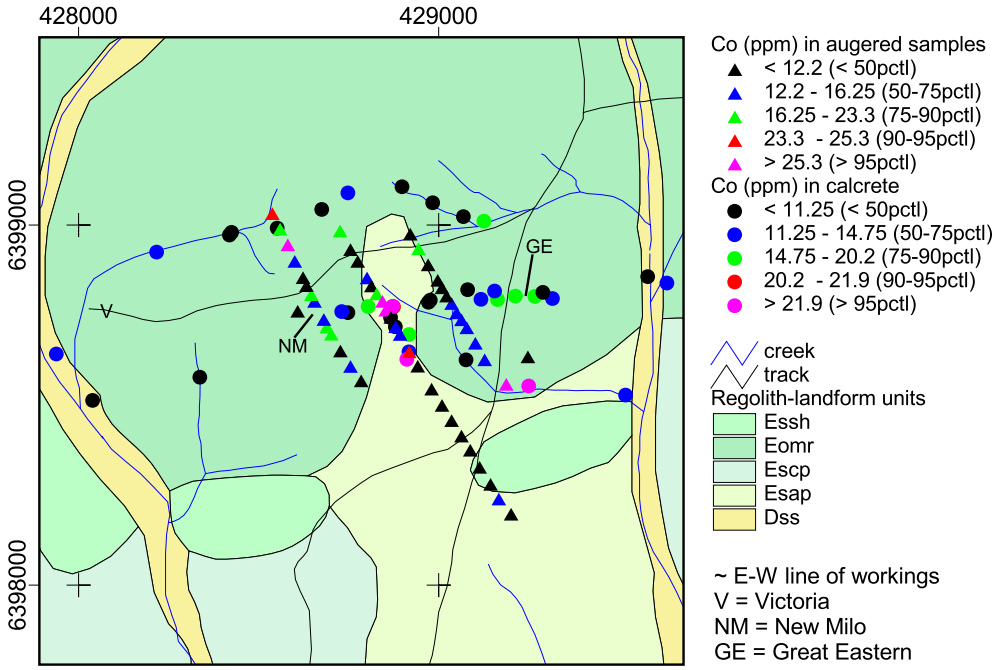


Figure A1.4.12. Distribution of Co (ppm) in augered and calcrete samples

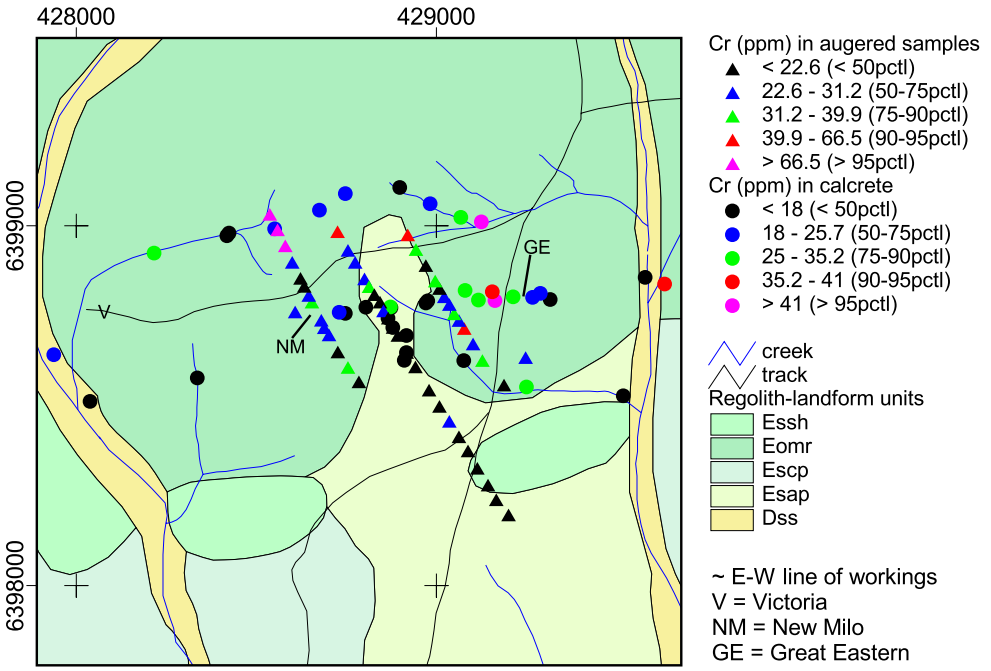


Figure A1.4.13. Distribution of Cr (ppm) in augered and calcrete samples

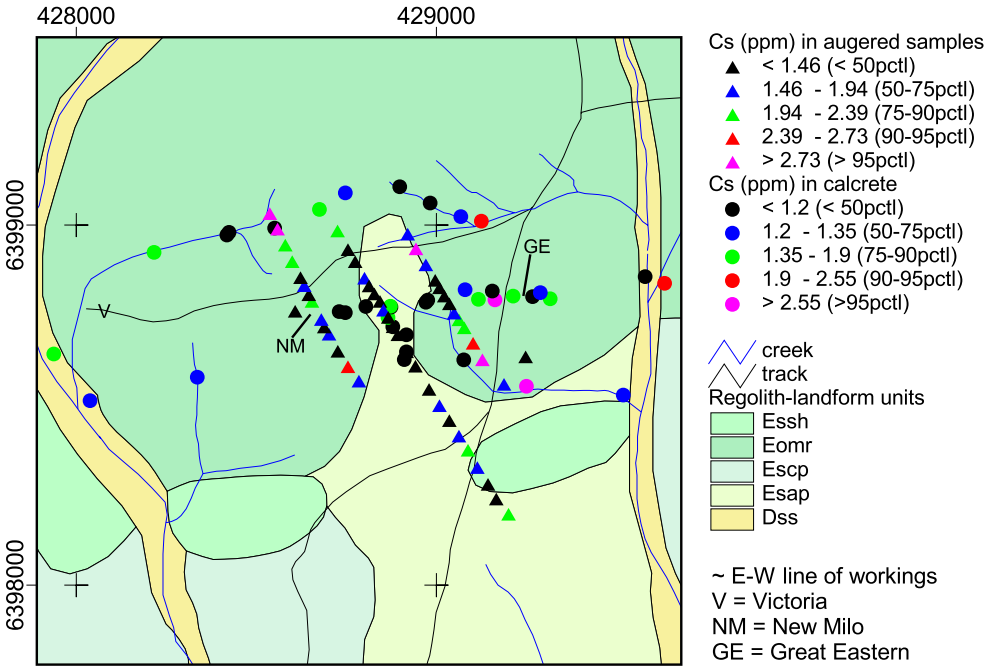


Figure A1.4.14. Distribution of Cs (ppm) in augered and calcrete samples

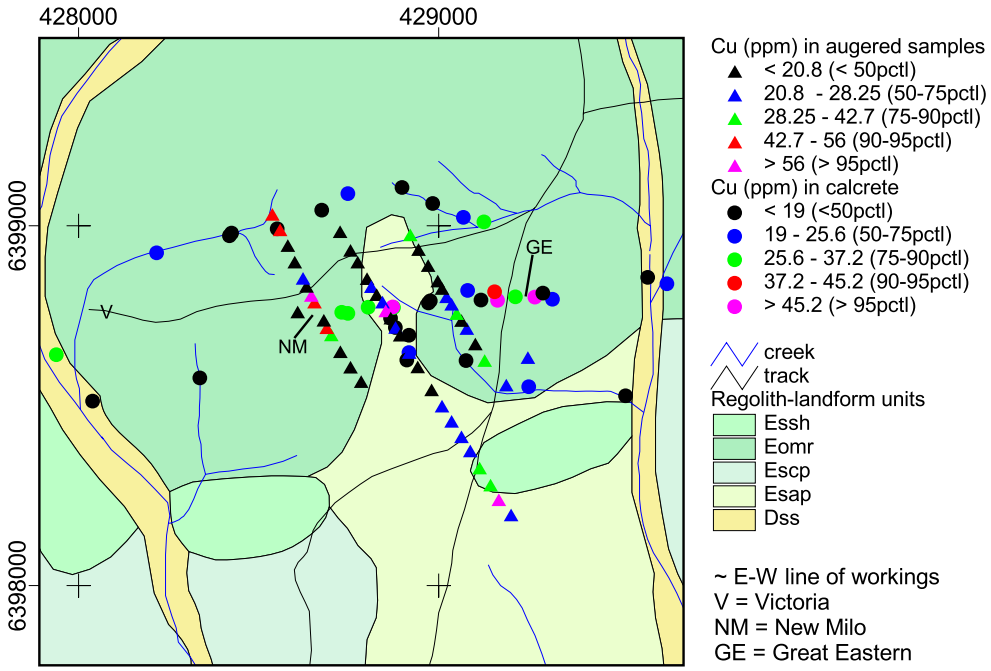


Figure A1.4.15. Distribution of Cu (ppm) in augered and calcrete samples

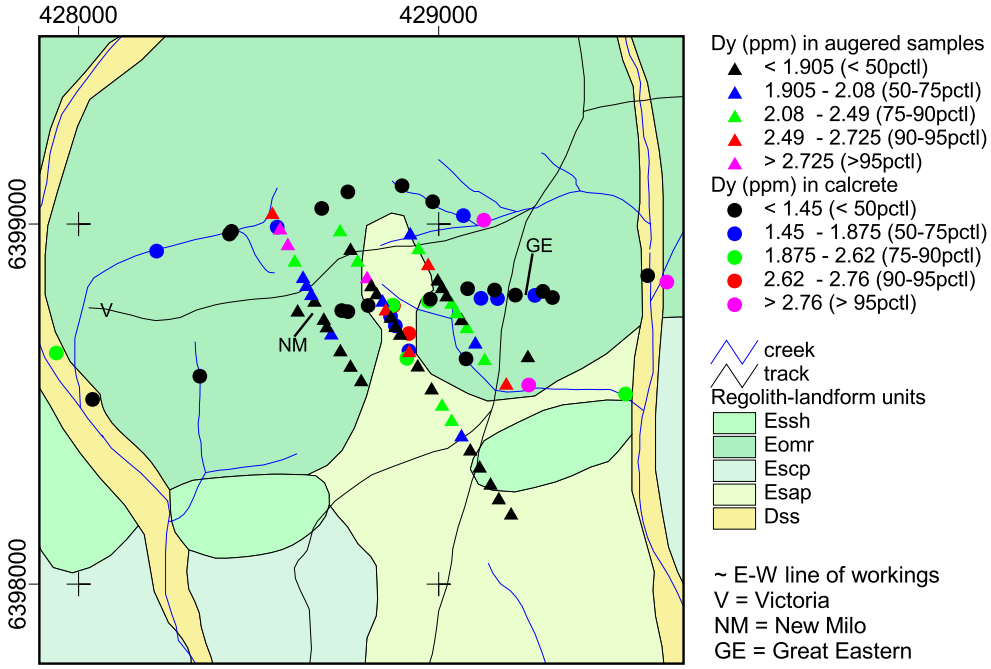


Figure A1.4.16. Distribution of Dy (ppm) in augered and calcrete samples

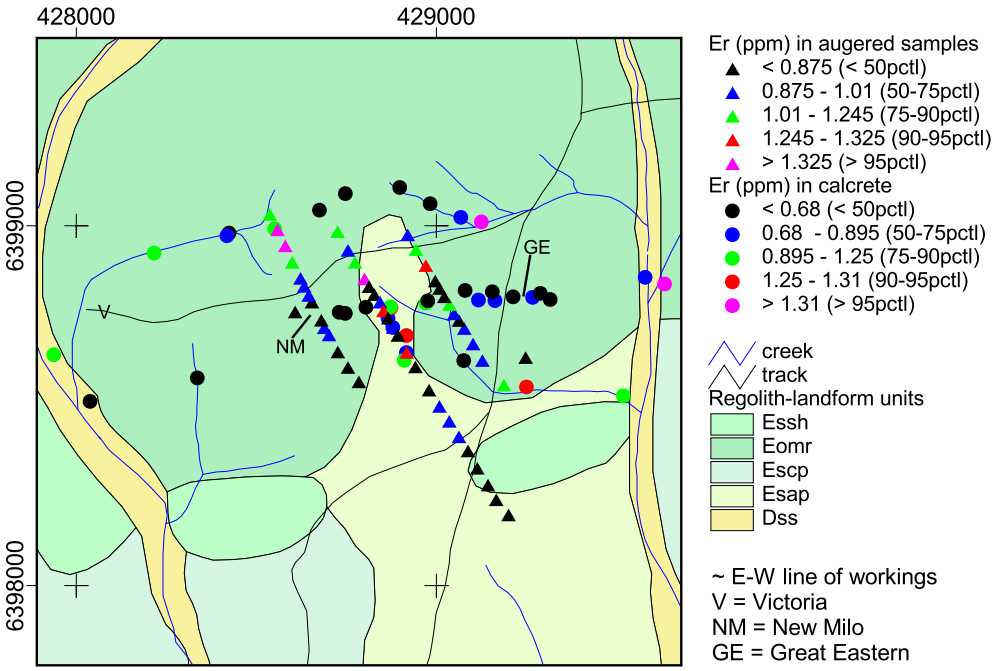


Figure A1.4.17. Distribution of Er (ppm) in augered and calcrete samples

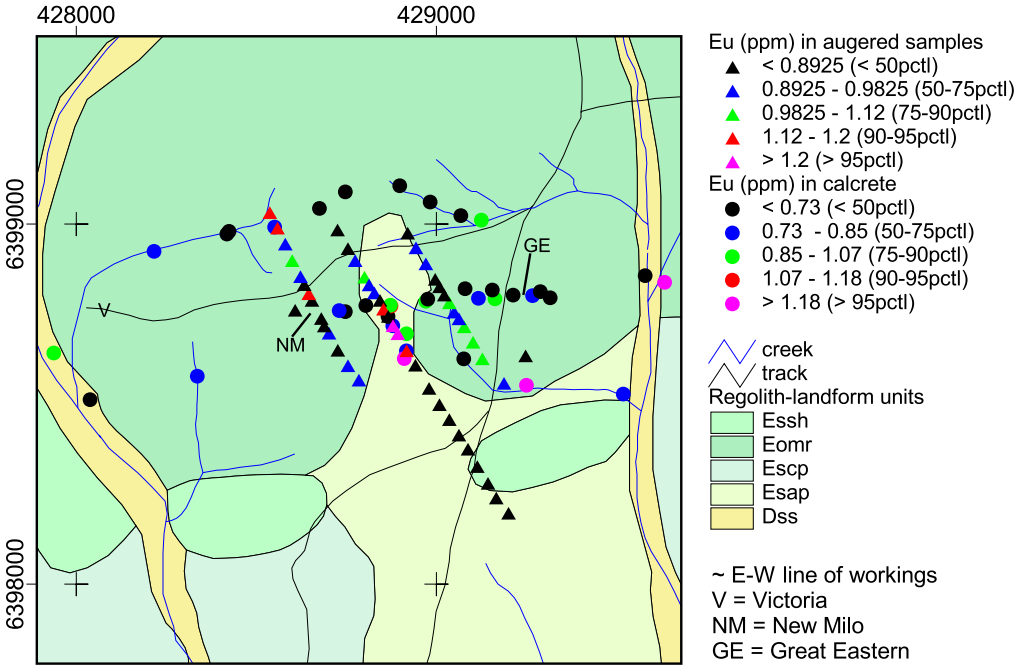


Figure A1.4.18. Distribution of Eu (ppm) in augered and calcrete samples

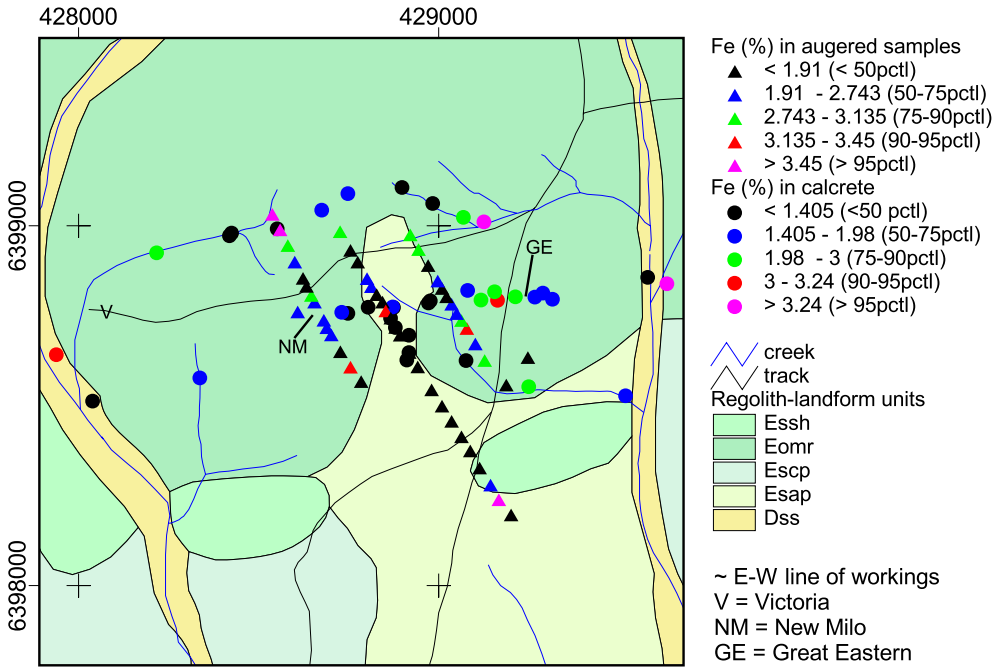


Figure A1.4.19. Distribution of Fe (%) in augered and calcrete samples

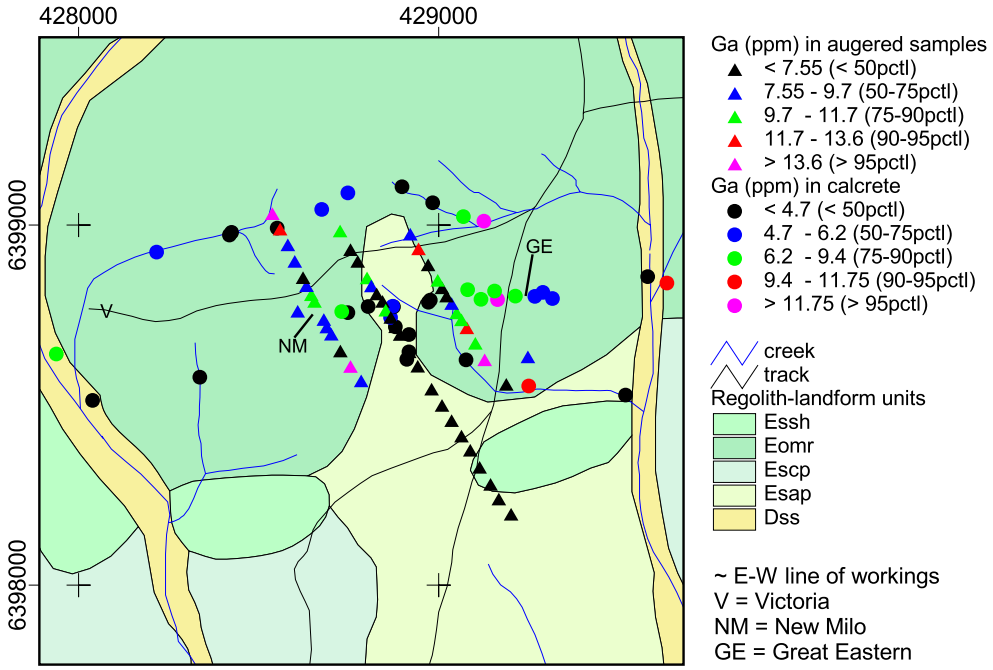


Figure A1.4.20. Distribution of Ga (ppm) in augered and calcrete samples

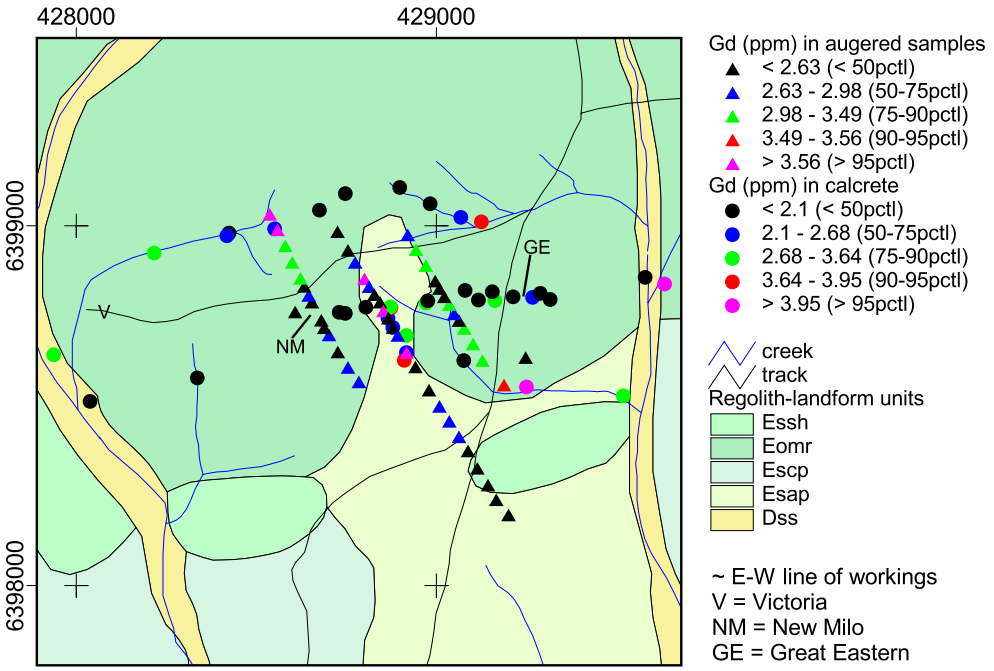


Figure A1.4.21. Distribution of Gd (ppm) in augered and calcrete samples

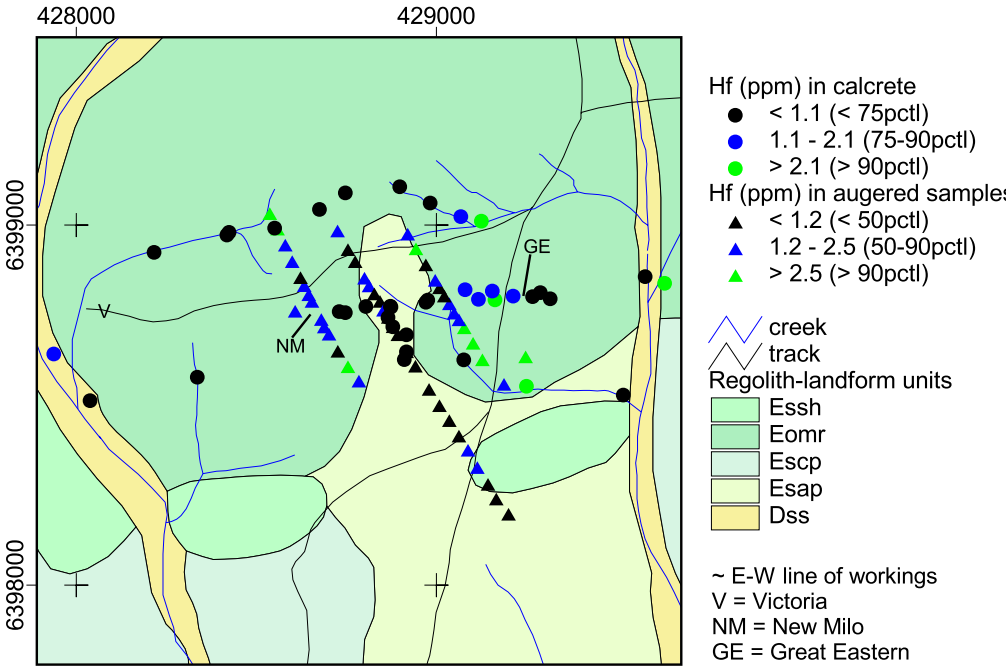


Figure A1.4.22. Distribution of Hf (ppm) in augered and calcrete samples

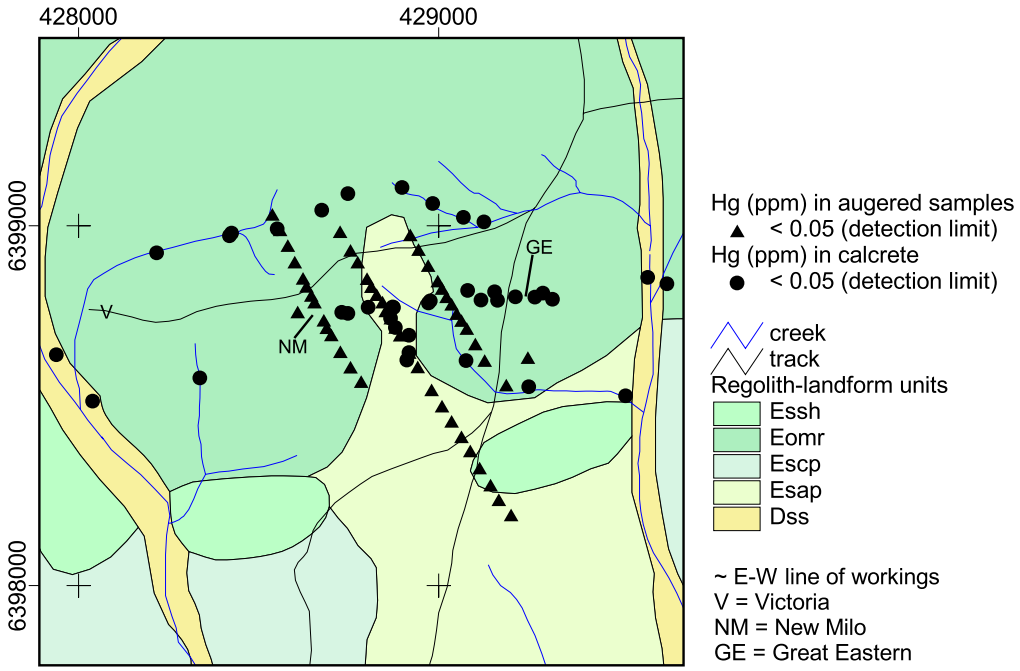


Figure A1.4.23. Distribution of Hg (ppm) in augered and calcrete samples

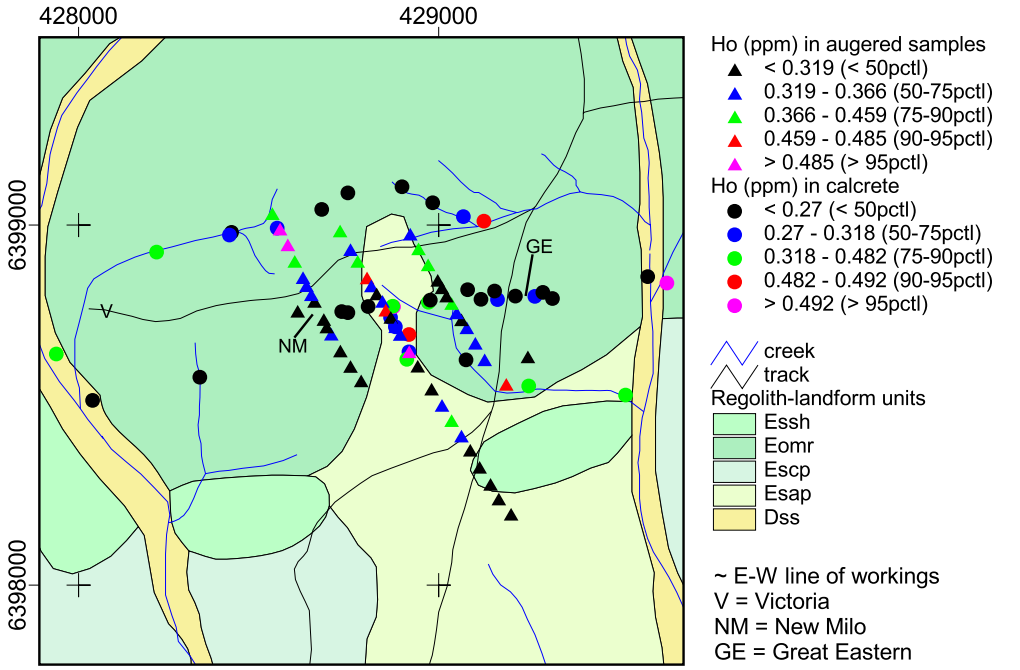


Figure A1.4.24. Distribution of Ho (ppm) in augered and calcrete samples

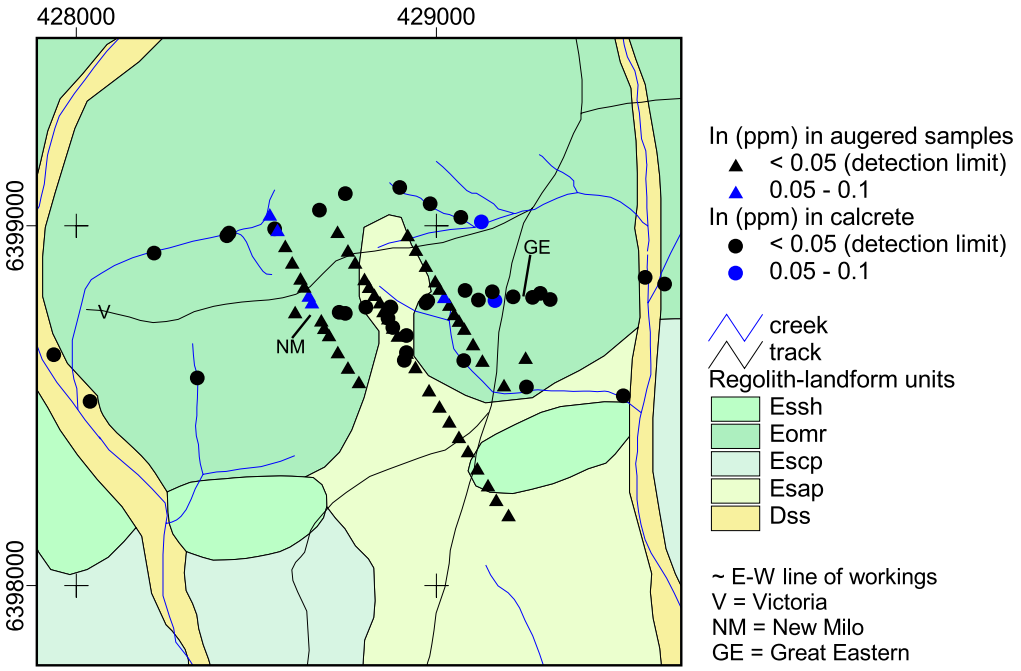


Figure A1.4.25. Distribution of In (ppm) in augered and calcrete samples

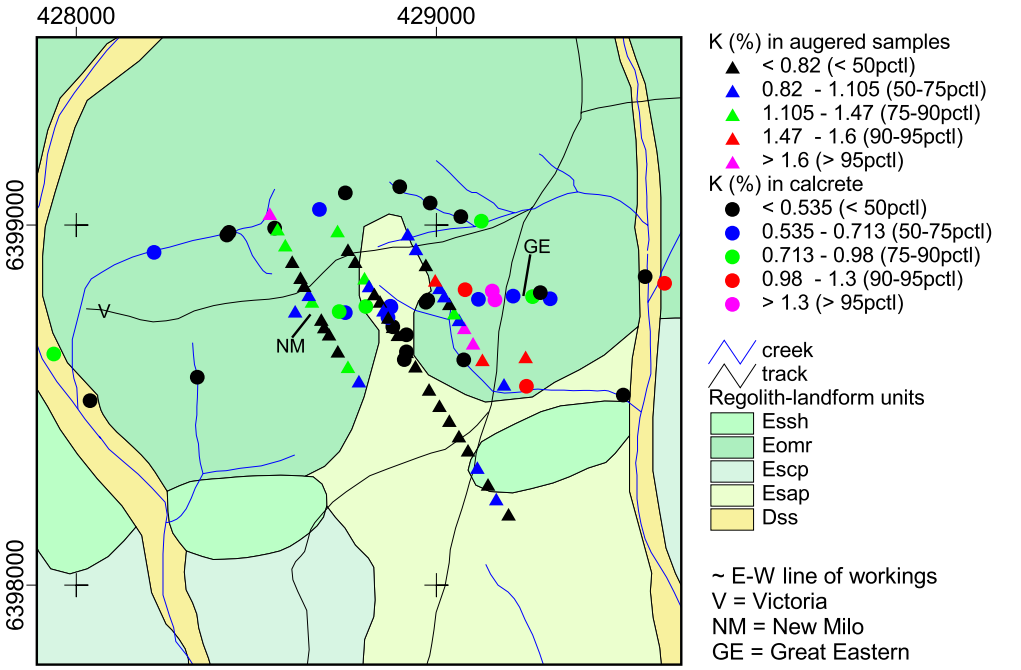


Figure A1.4.26. Distribution of K (%) in augered and calcrete samples

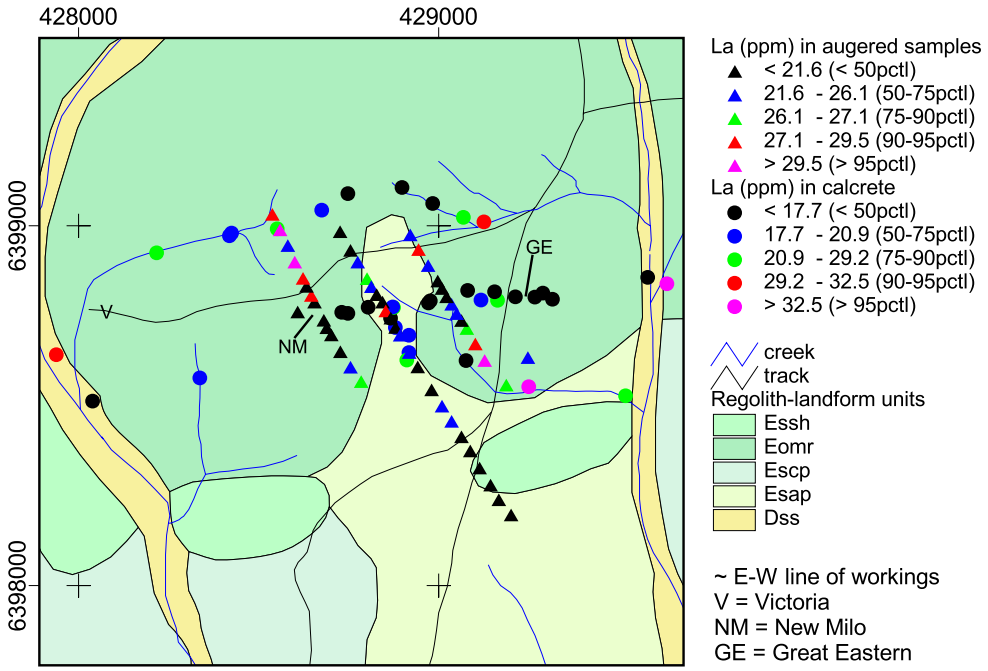


Figure A1.4.27. Distribution of La (ppm) in augered and calcrete samples

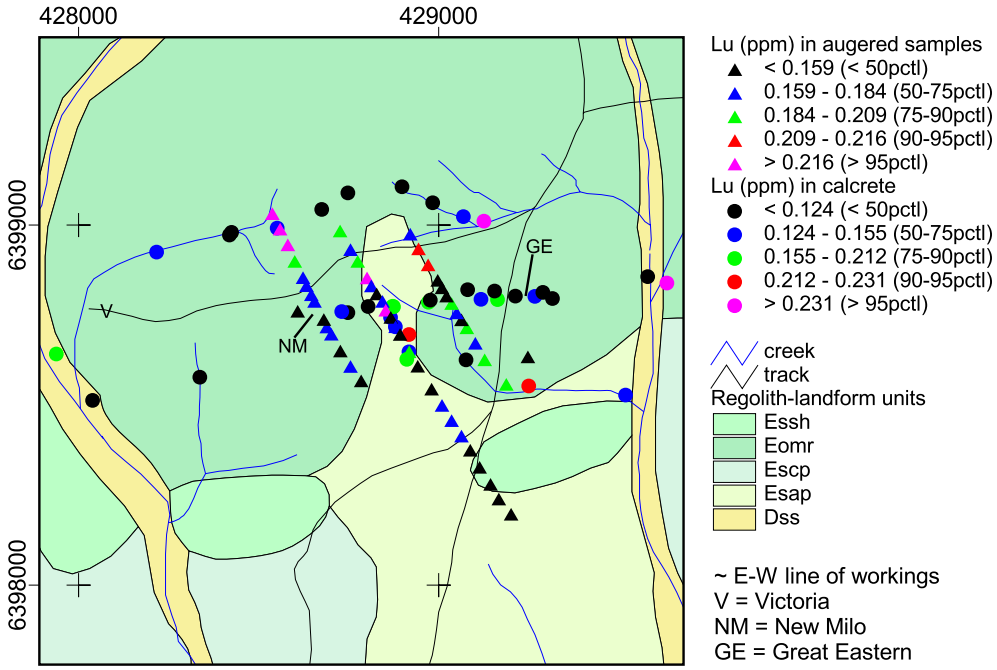


Figure A1.4.28. Distribution of Lu (ppm) in augered and calcrete samples

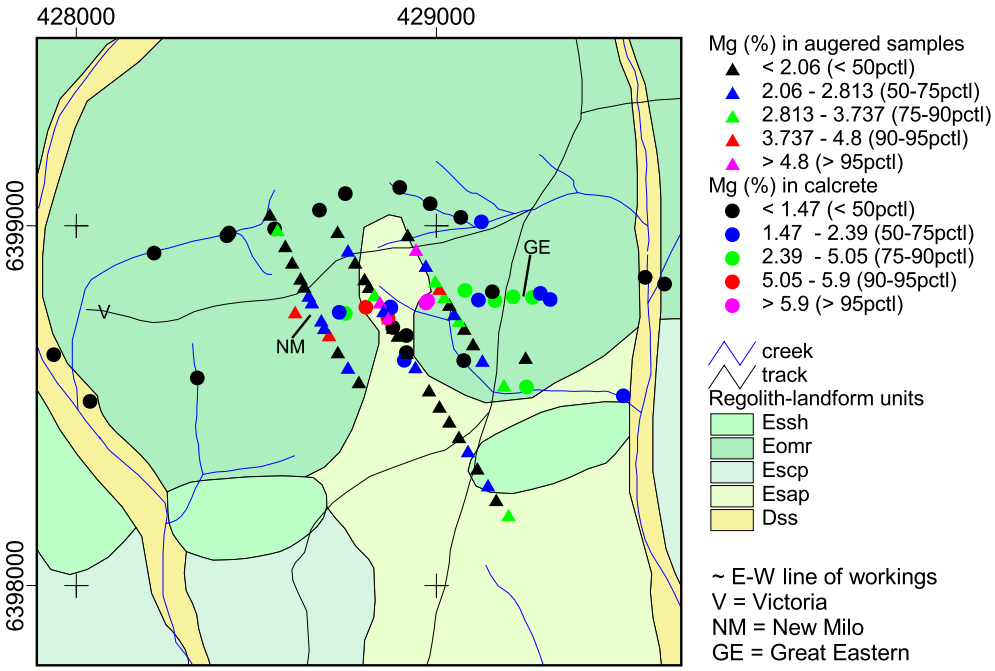


Figure A1.4.29. Distribution of Mg (%) in augered and calcrete samples

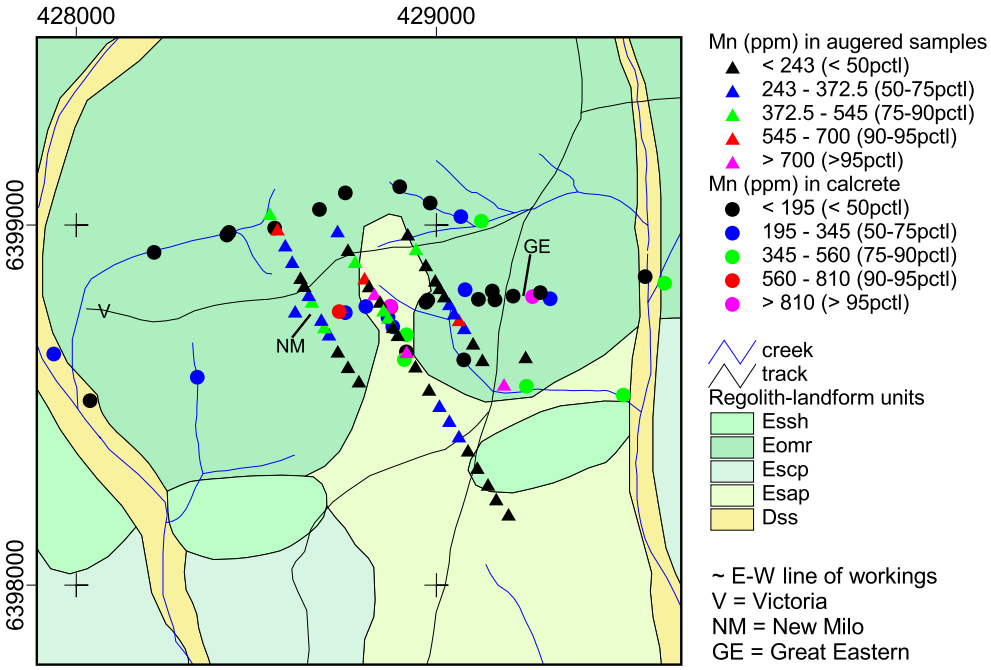


Figure A1.4.30. Distribution of Mn (ppm) in augered and calcrete samples

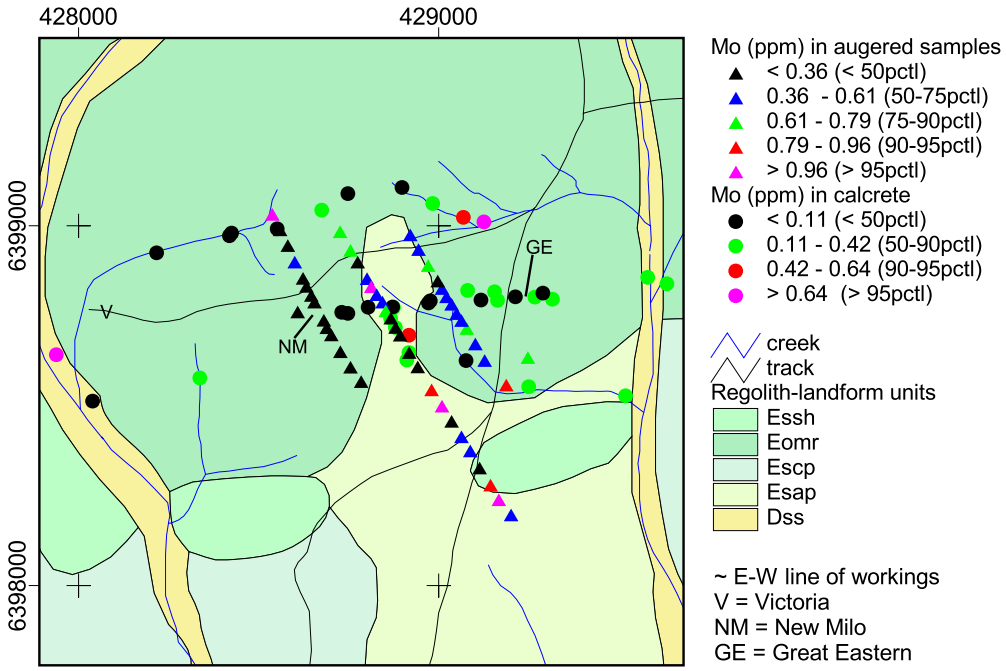


Figure A1.4.31. Distribution of Mo (ppm) in augered and calcrete samples

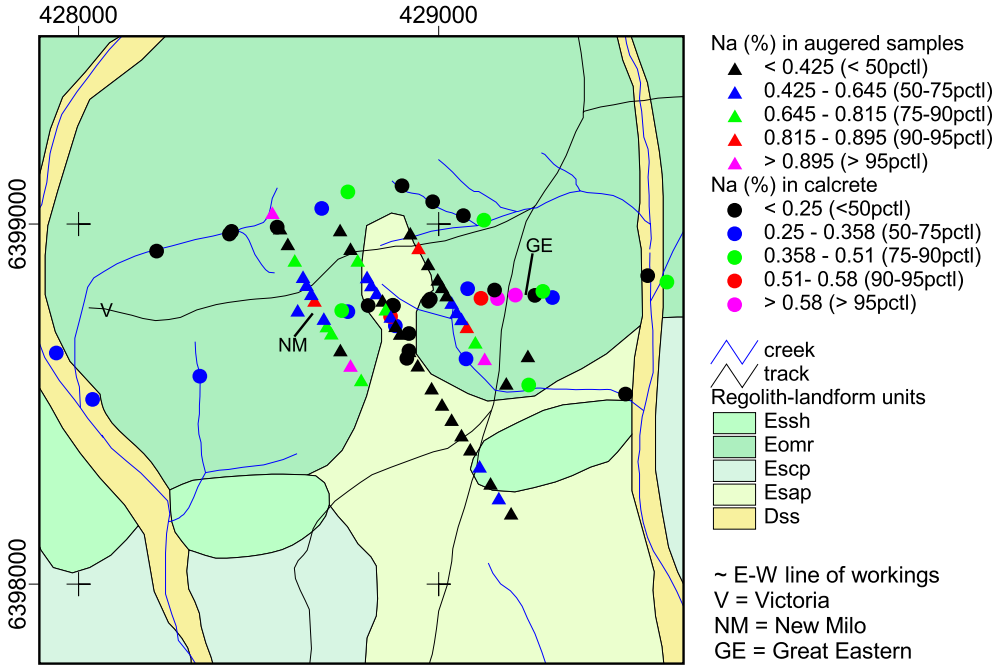


Figure A1.4.32. Distribution of Na (%) in augered and calcrete samples

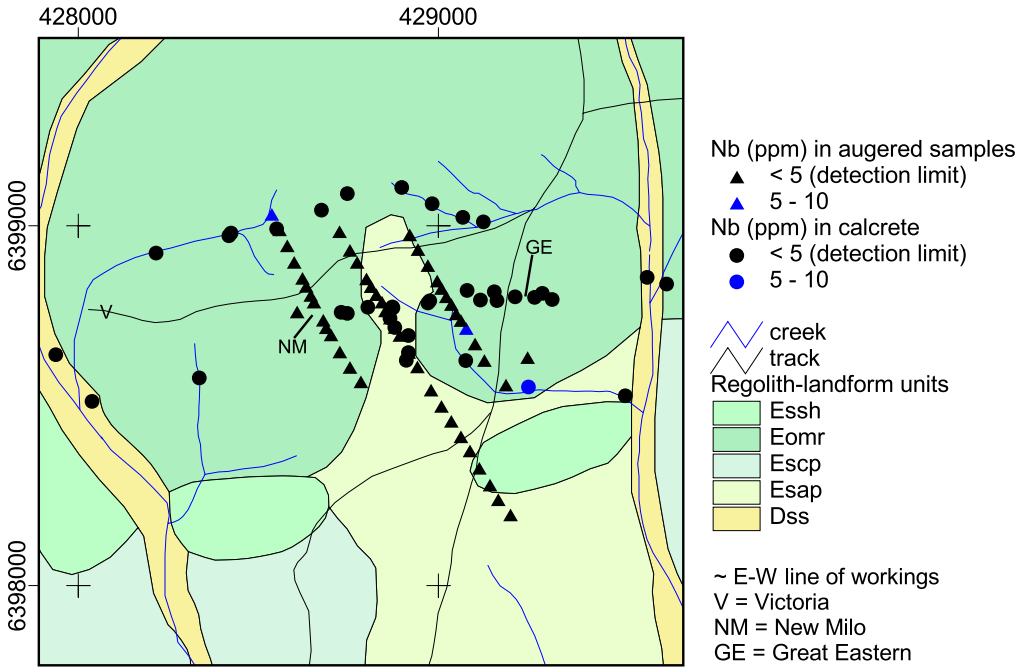


Figure A1.4.33. Distribution of Nb (ppm) in augered and calcrete samples

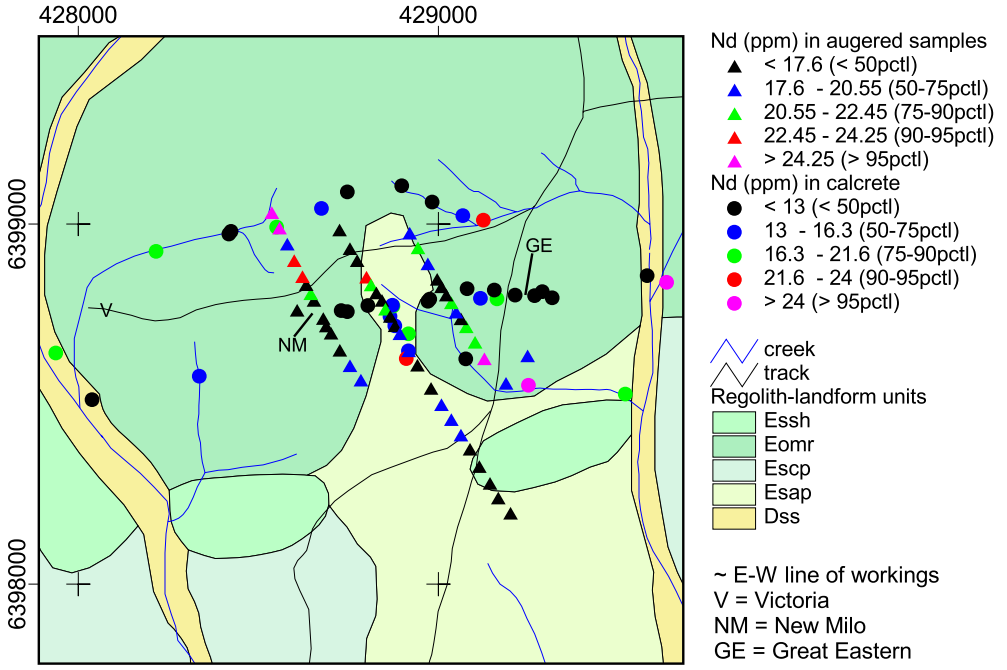


Figure A1.4.34. Distribution of Nd (ppm) in augered and calcrete samples

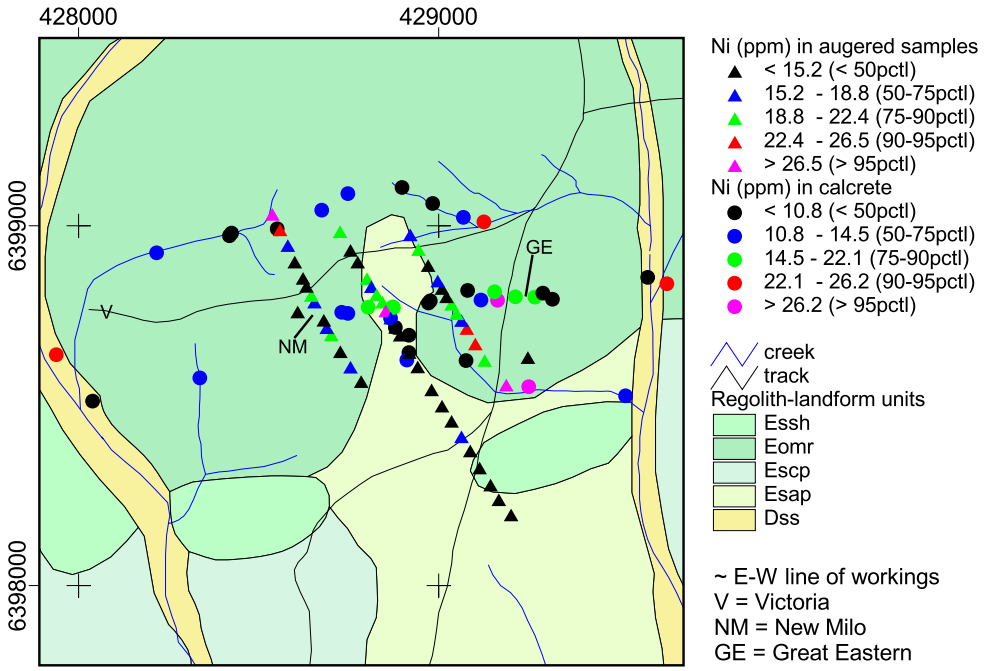


Figure A1.4.35. Distribution of Ni (ppm) in augered and calcrete samples

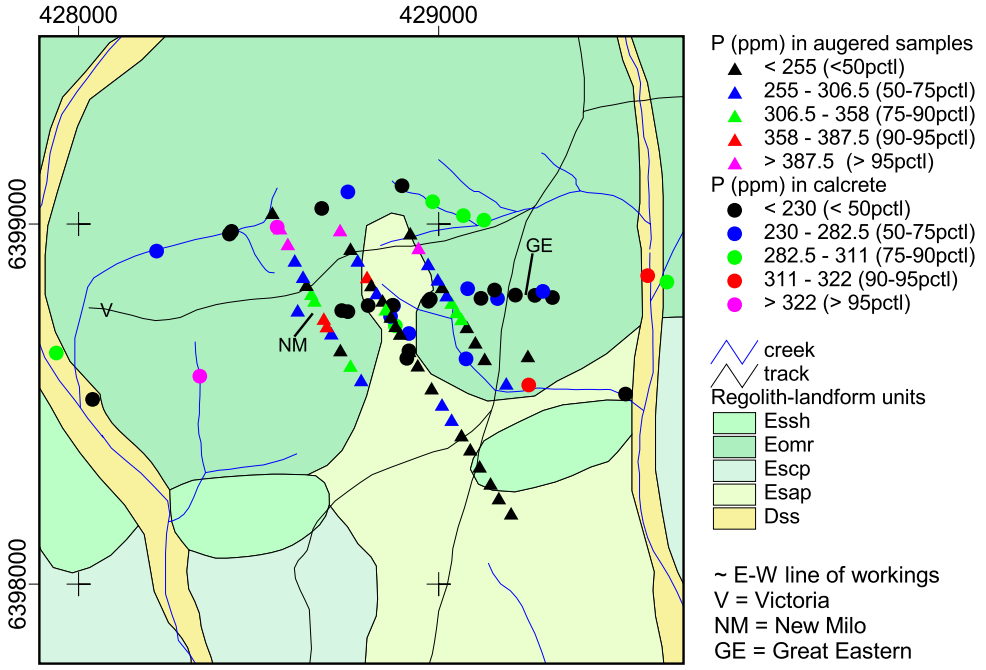


Figure A1.4.36. Distribution of P (ppm) in augered and calcrete samples

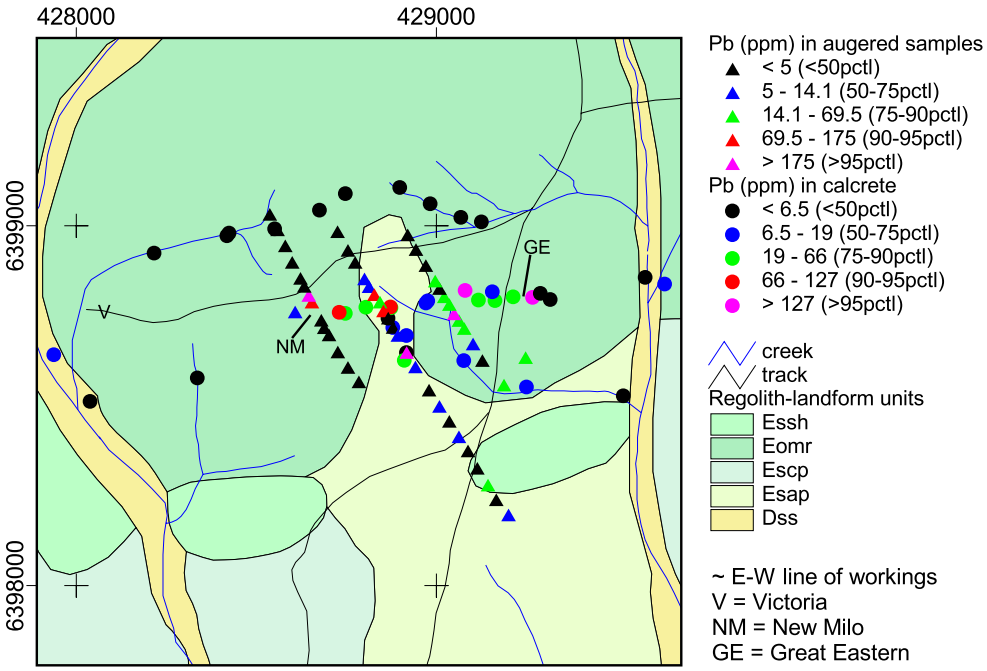


Figure A1.4.37. Distribution of Pb (ppm) in augered and calcrete samples

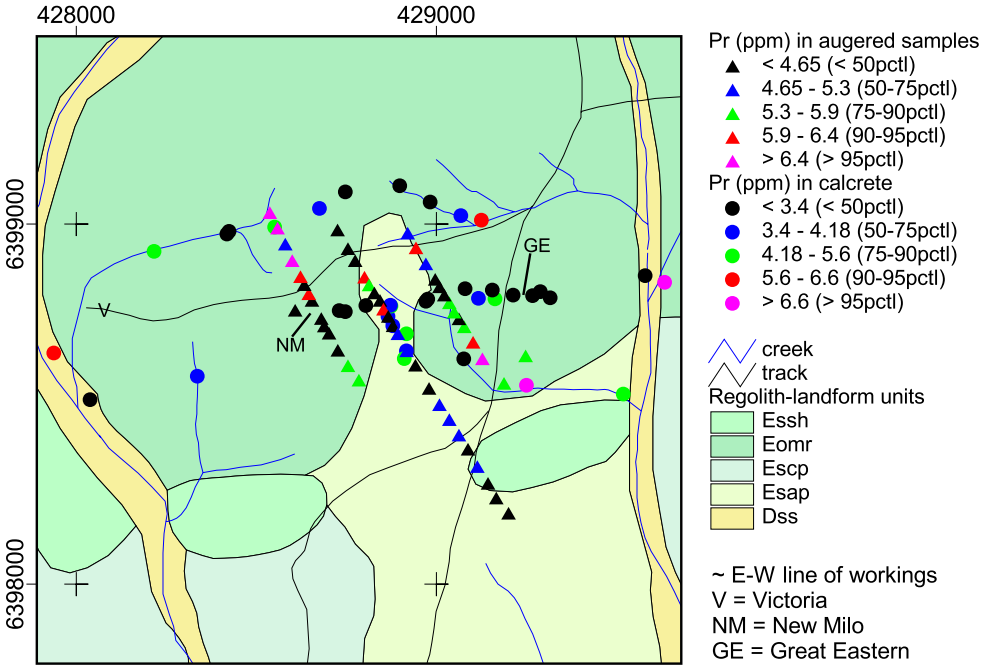


Figure A1.4.38. Distribution of Pr (ppm) in augered and calcrete samples

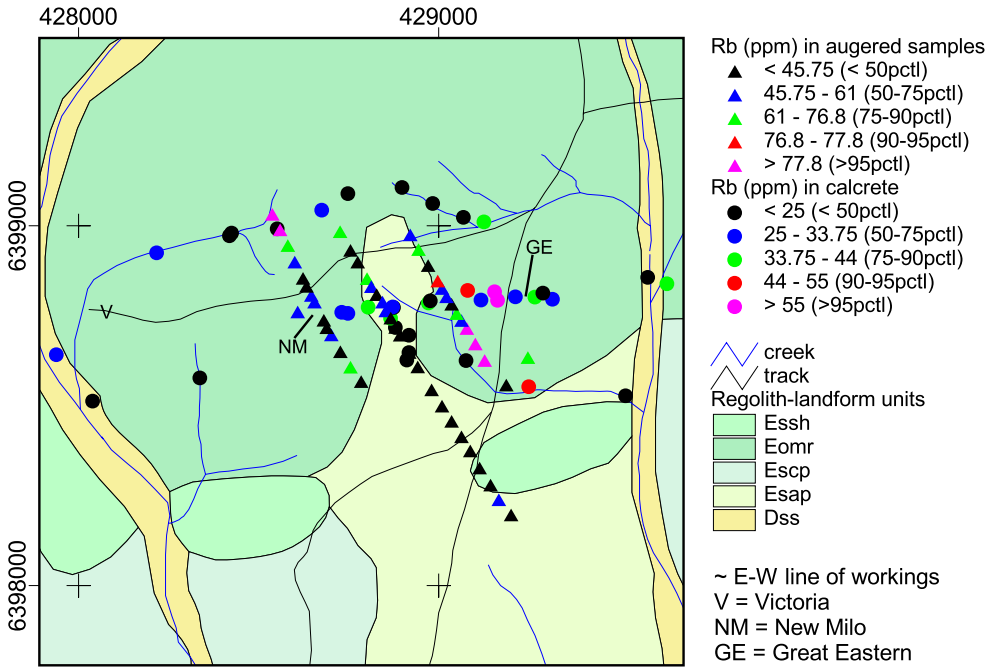


Figure A1.4.39. Distribution of Rb (ppm) in augered and calcrete samples

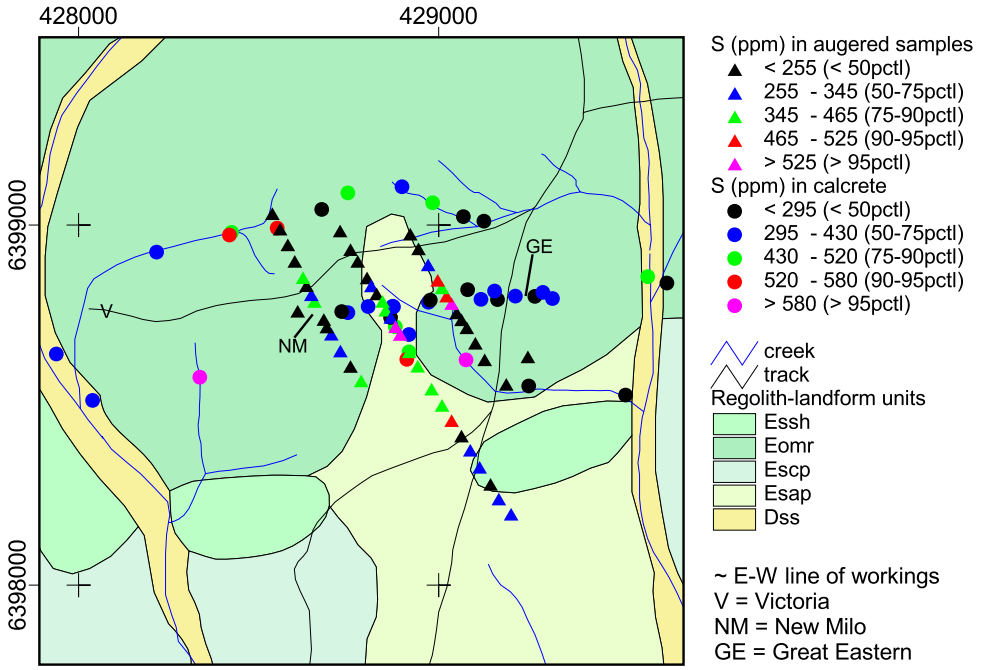


Figure A1.4.40. Distribution of S (ppm) in augered and calcrete samples

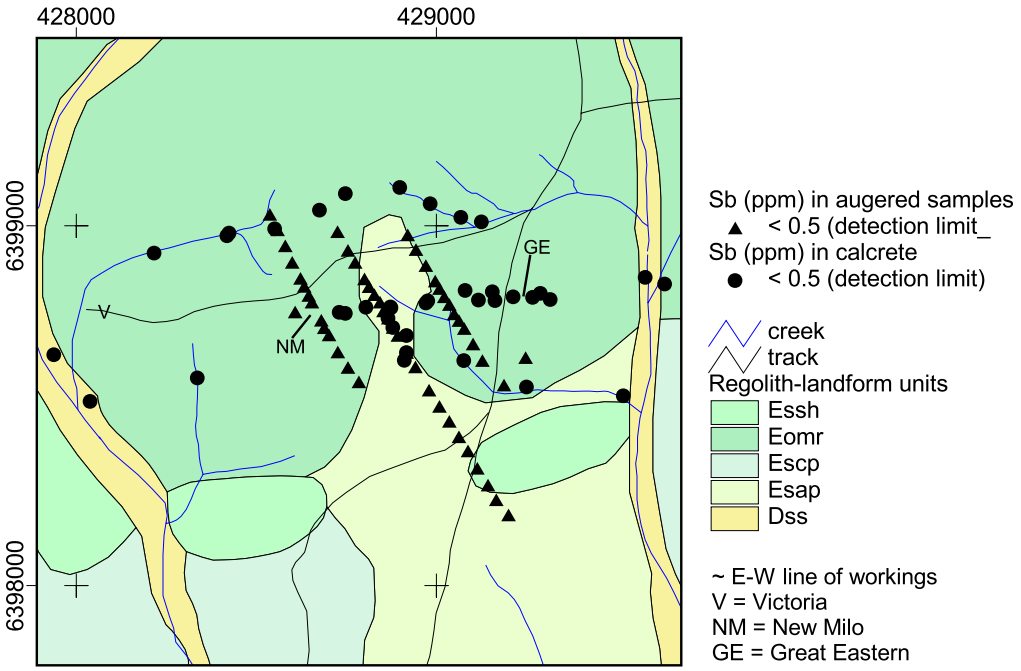


Figure A1.4.41. Distribution of Sb (ppm) in augered and calcrete samples

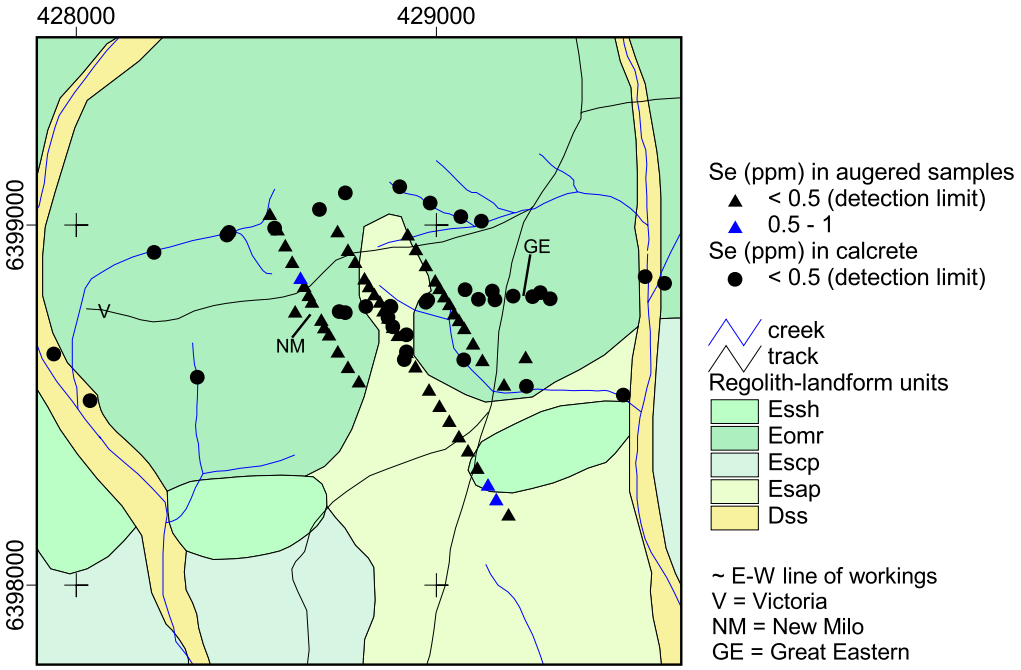


Figure A1.4.42. Distribution of Se (ppm) in augered and calcrete samples

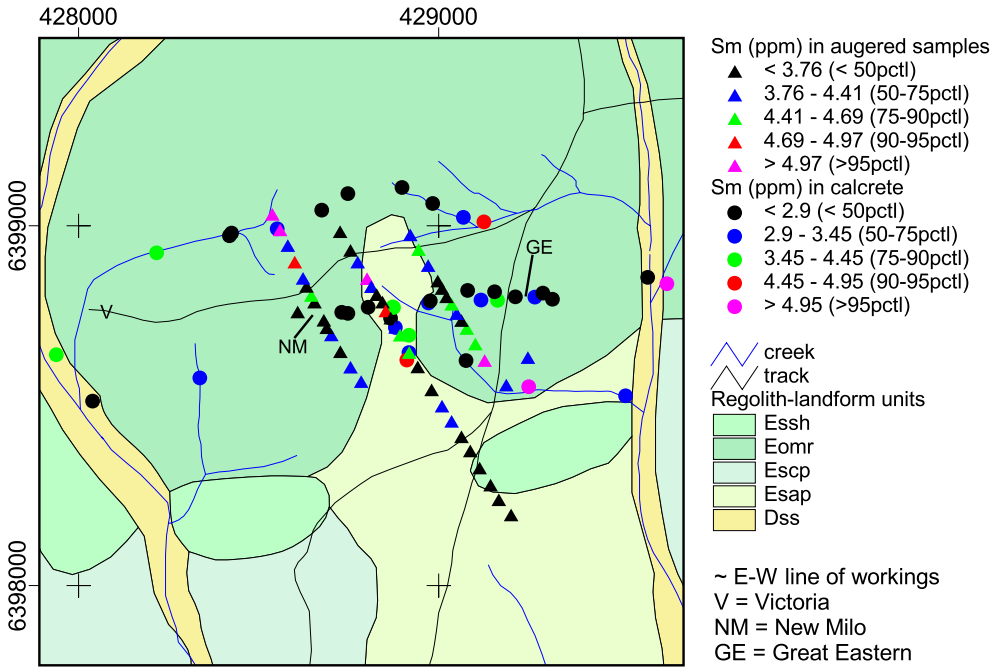


Figure A1.4.43. Distribution of Sm (ppm) in augered and calcrete samples

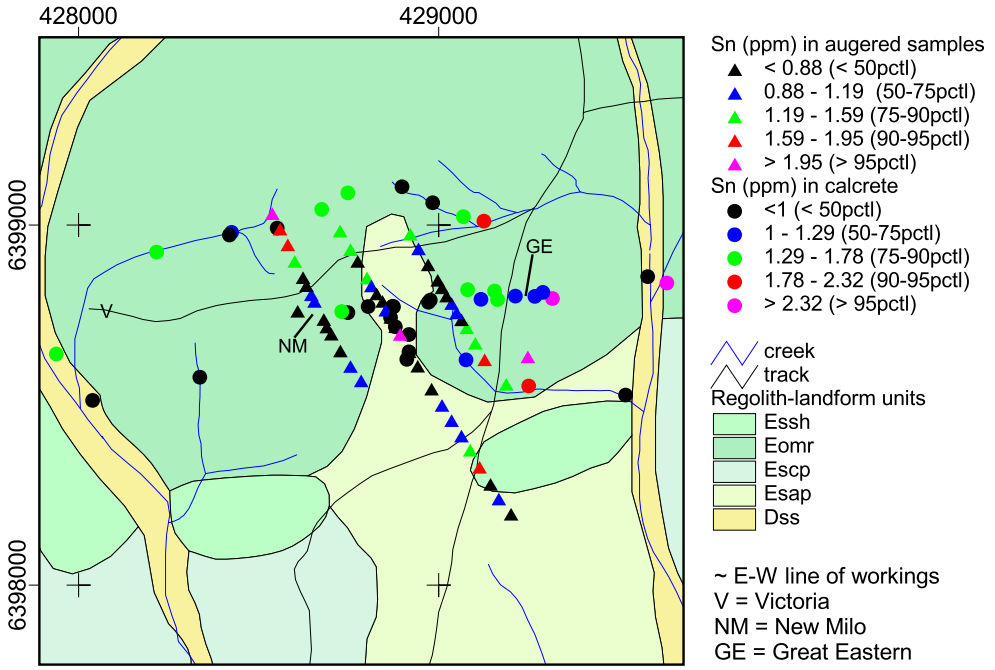


Figure A1.4.44. Distribution of Sn (ppm) in augered and calcrete samples

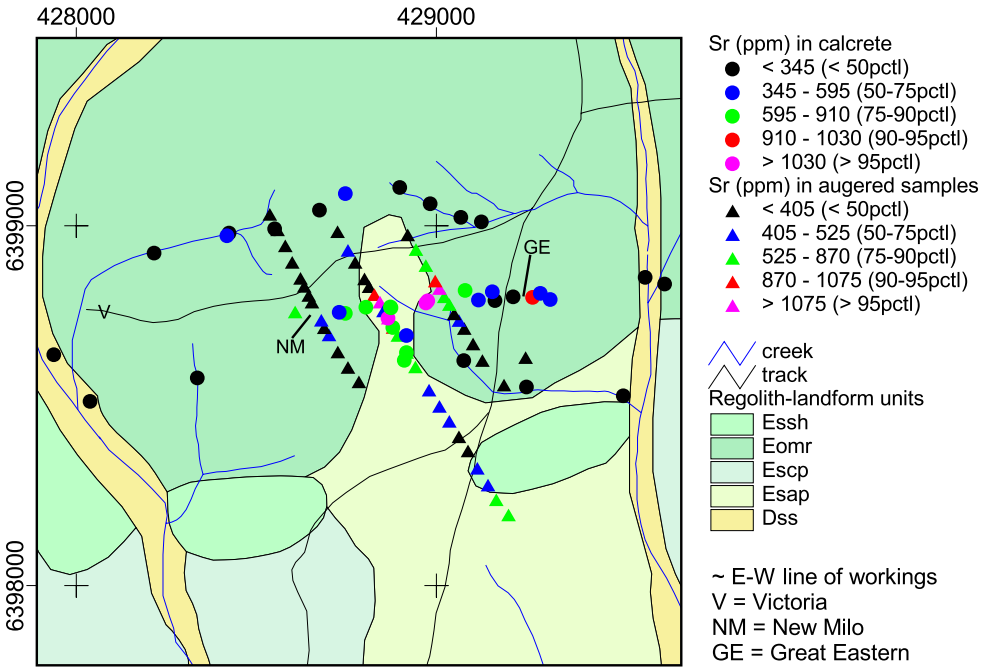


Figure A1.4.45. Distribution of Sr (ppm) in augered and calcrete samples

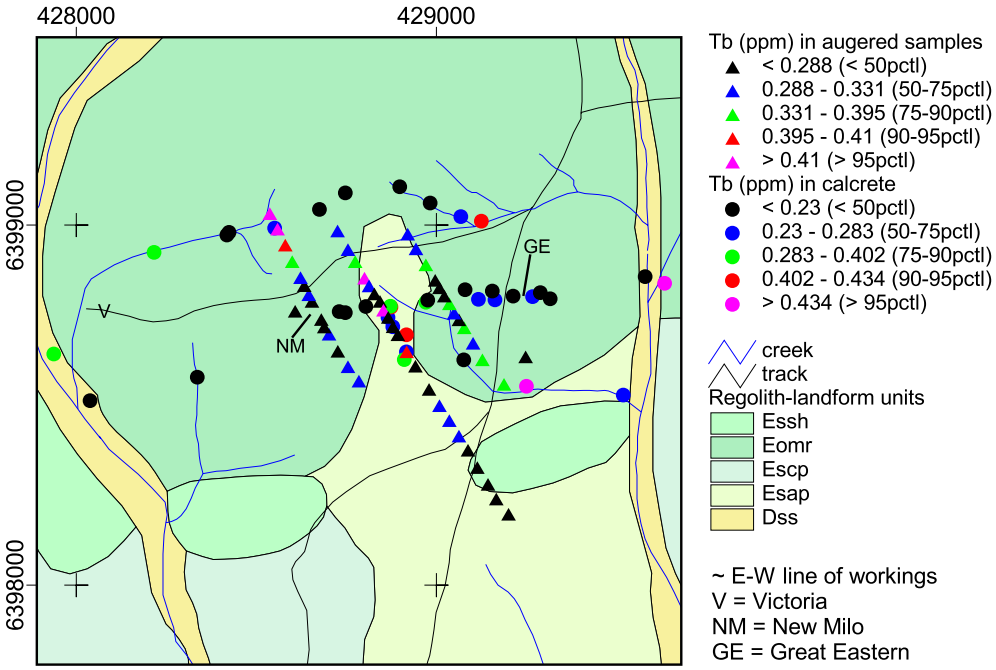


Figure A1.4.46. Distribution of Tb (ppm) in augered and calcrete samples

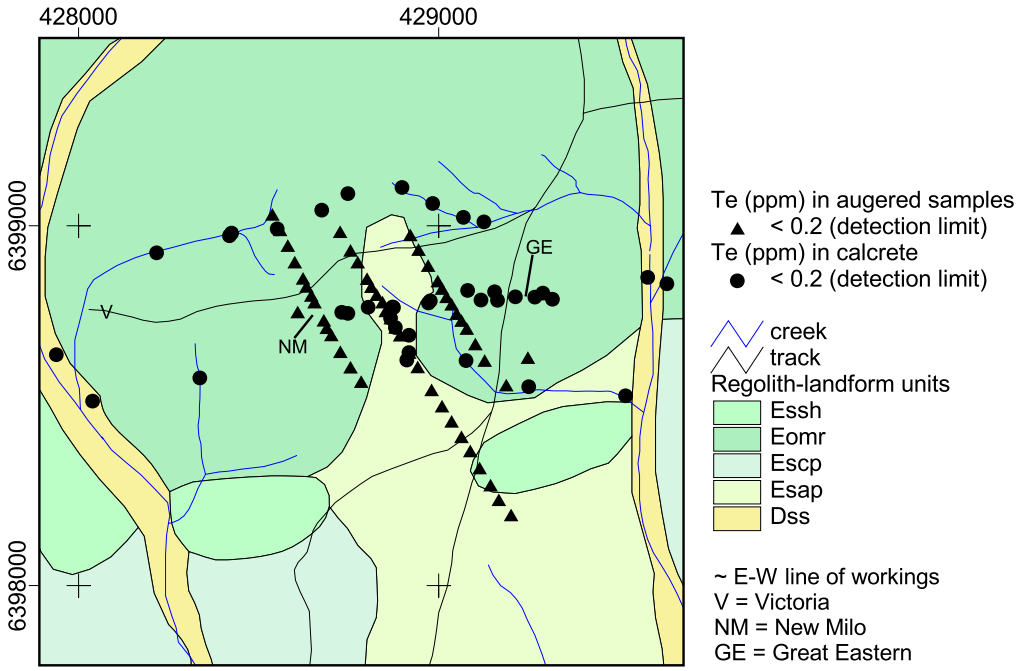


Figure A1.4.47. Distribution of Te (ppm) in augered and calcrete samples

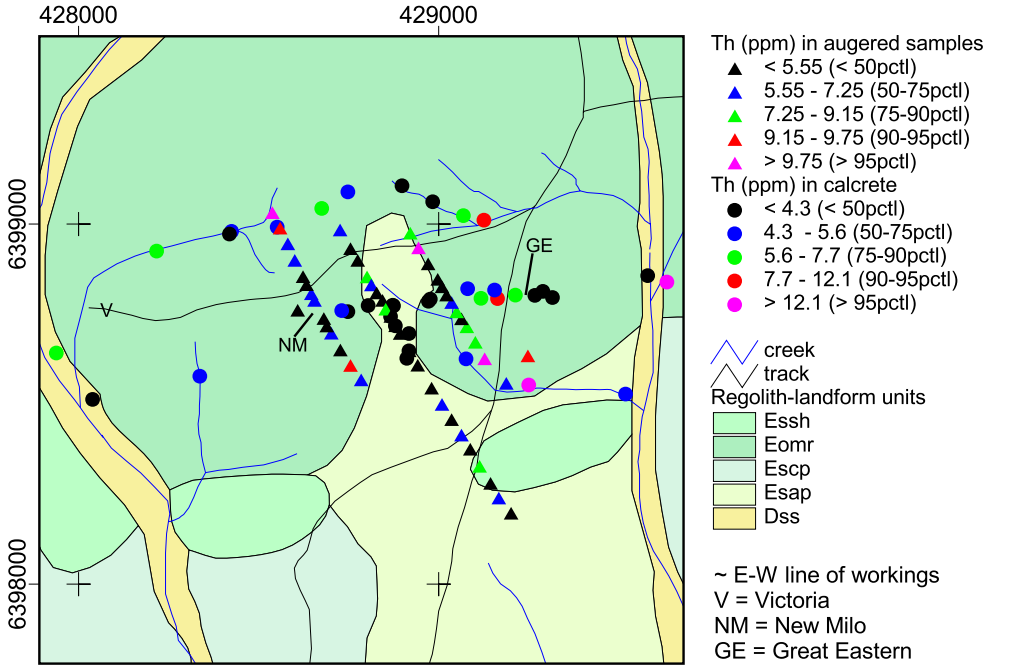


Figure A1.4.48. Distribution of Th (ppm) in augered and calcrete samples

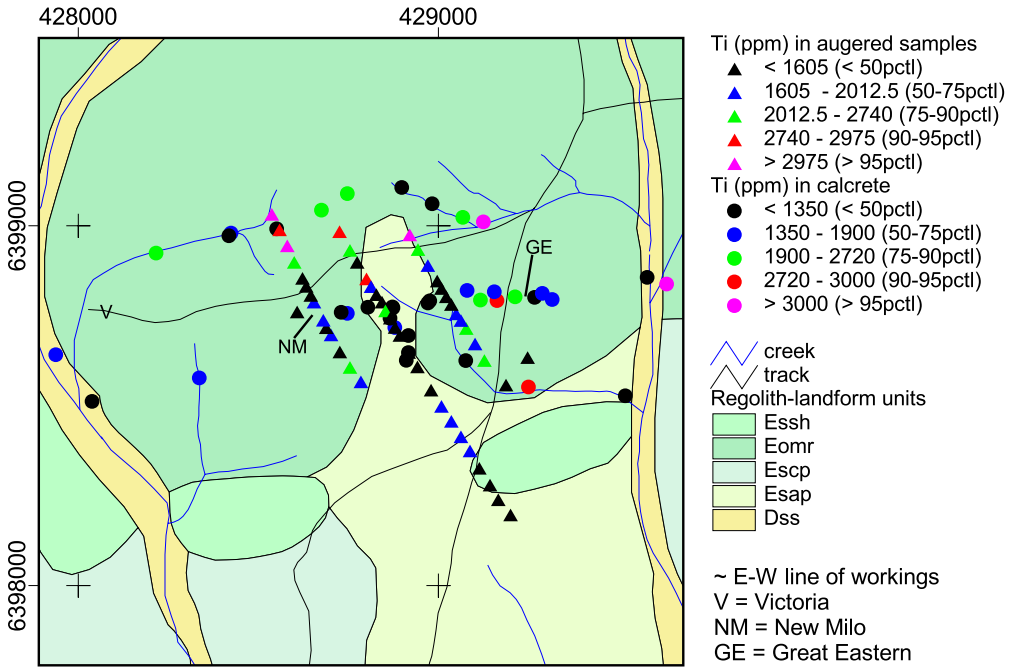


Figure A1.4.49. Distribution of Ti (ppm) in augered and calcrete samples

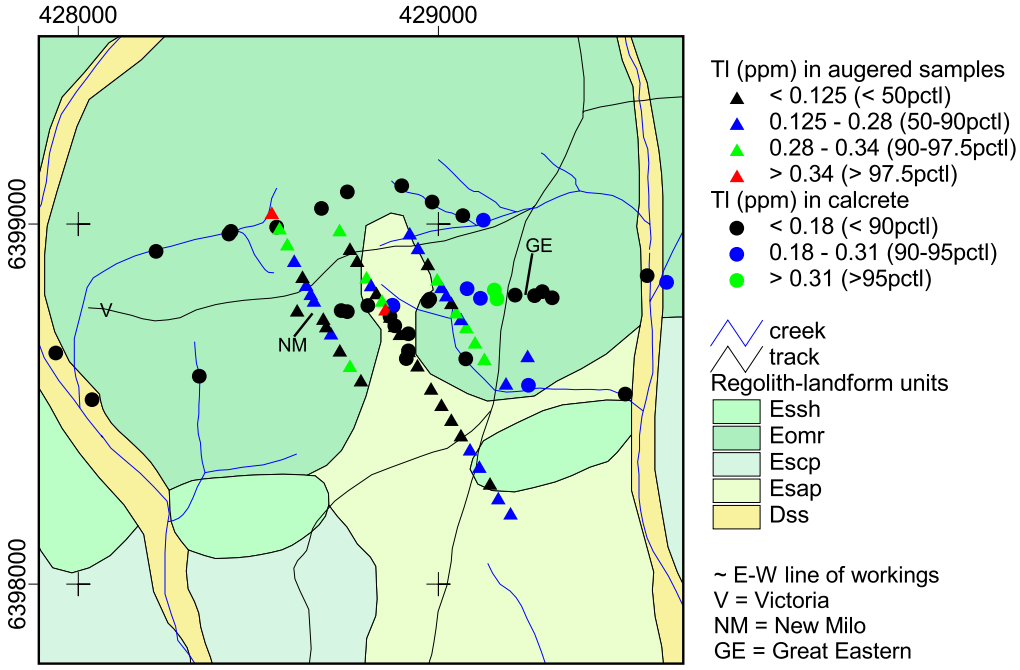


Figure A1.4.50. Distribution of Tl (ppm) in augered and calcrete samples

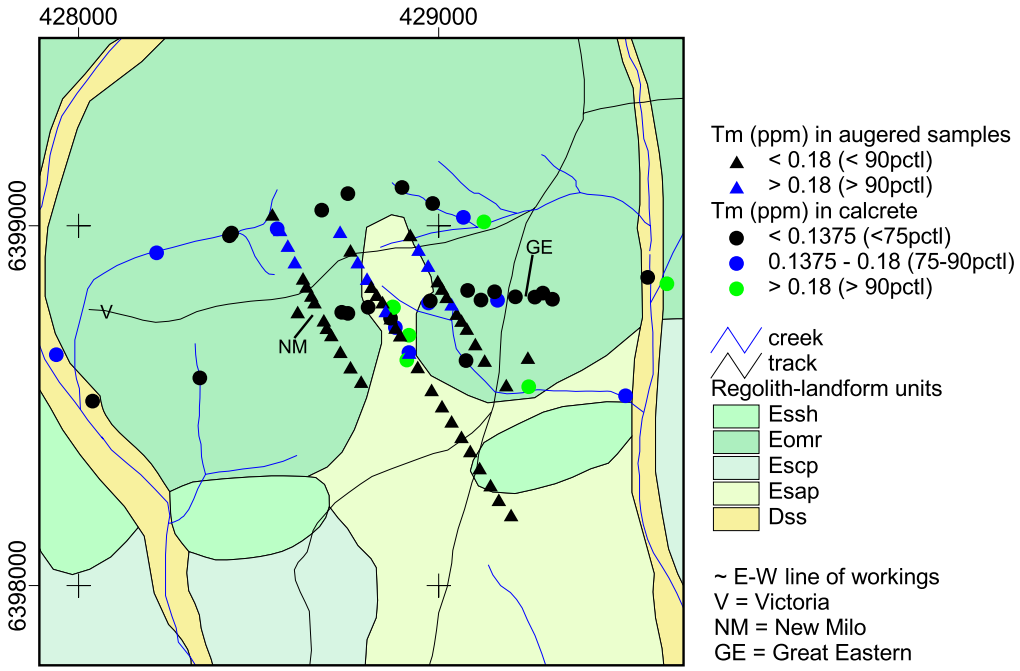


Figure A1.4.51. Distribution of Tm (ppm) in augered and calcrete samples

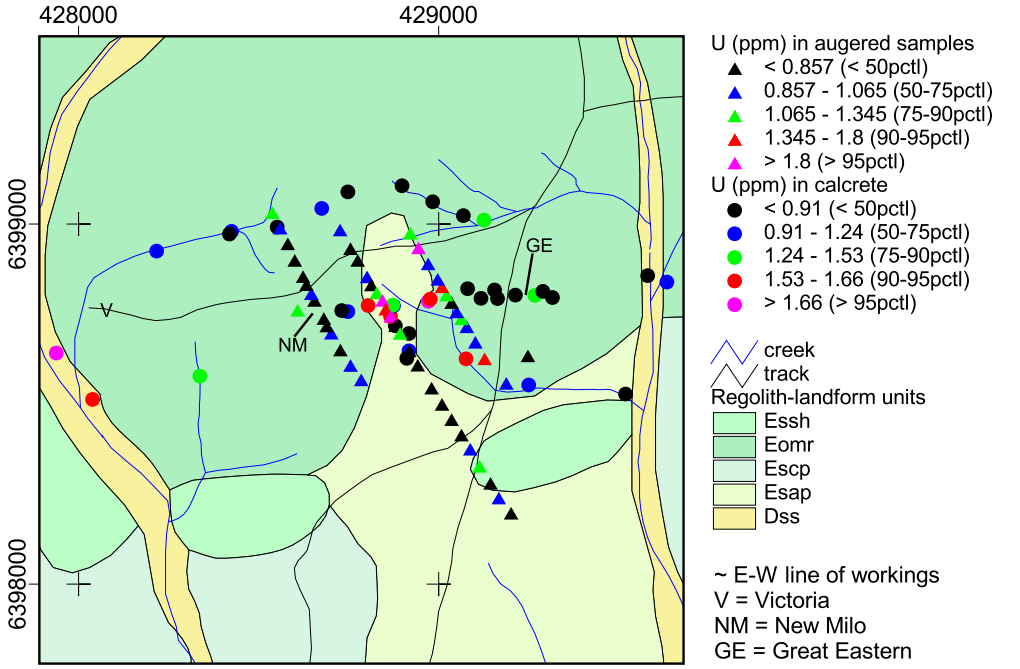


Figure A1.4.52. Distribution of U (ppm) in augered and calcrete samples

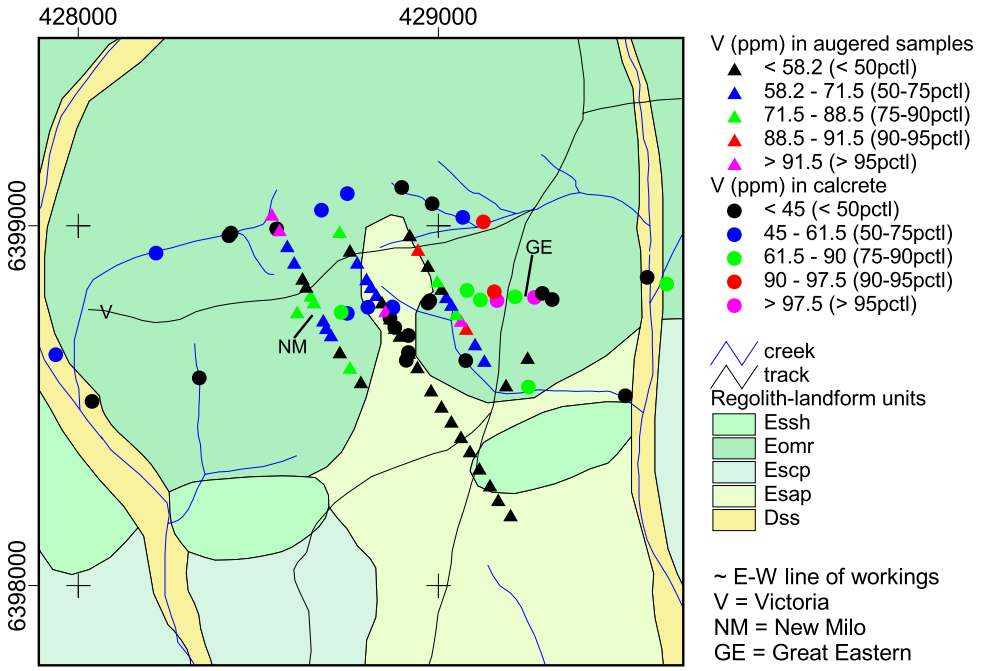


Figure A1.4.53. Distribution of V (ppm) in augered and calcrete samples

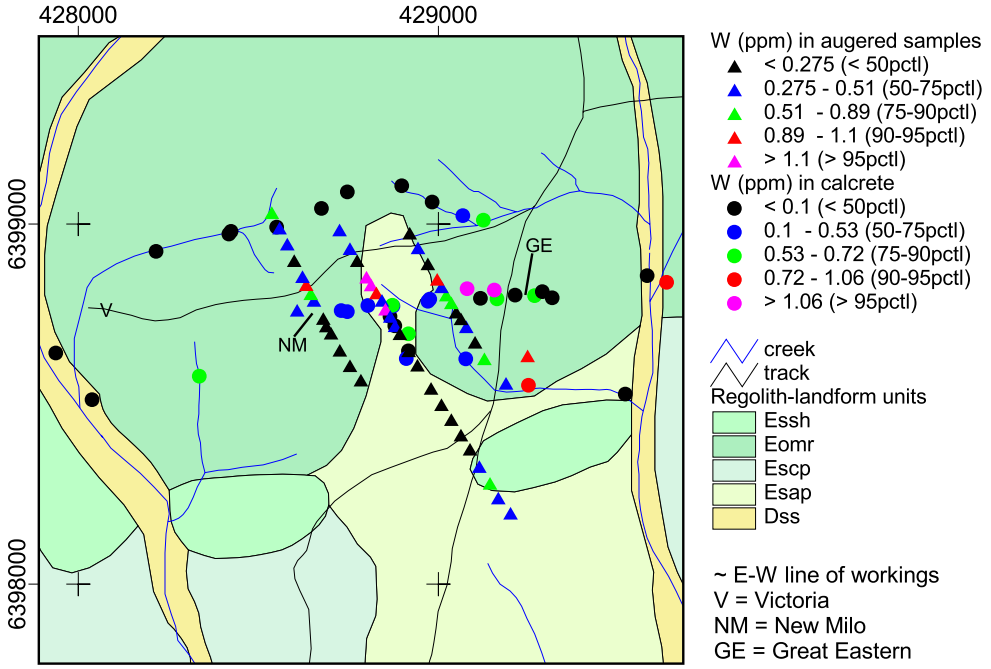


Figure A1.4.55. Distribution of W (ppm) in augered and calcrete samples

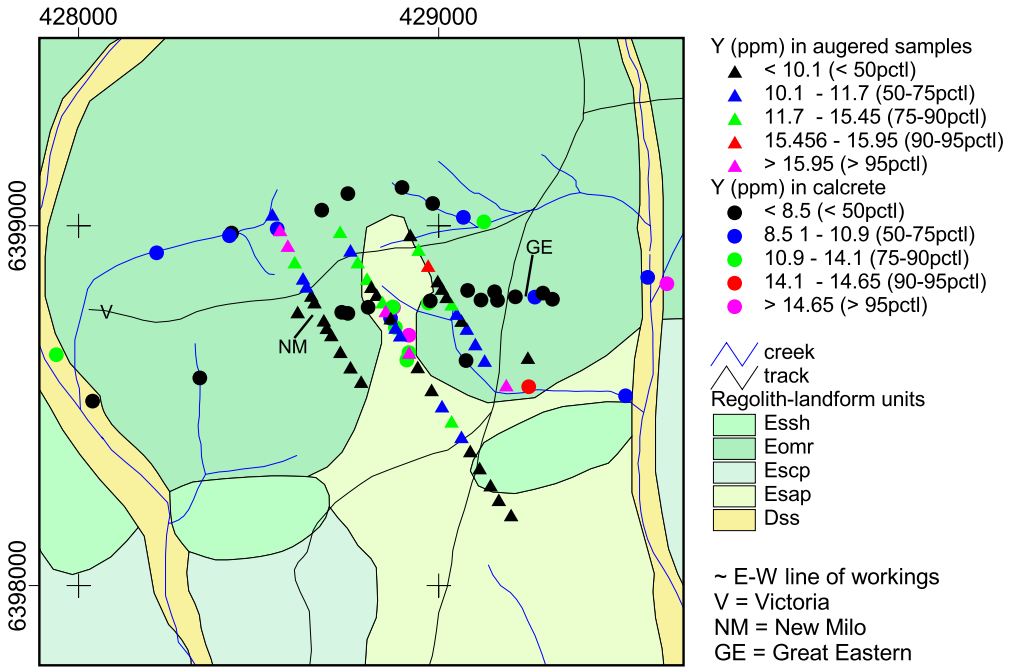


Figure A1.4.55. Distribution of Y (ppm) in augered and calcrete samples

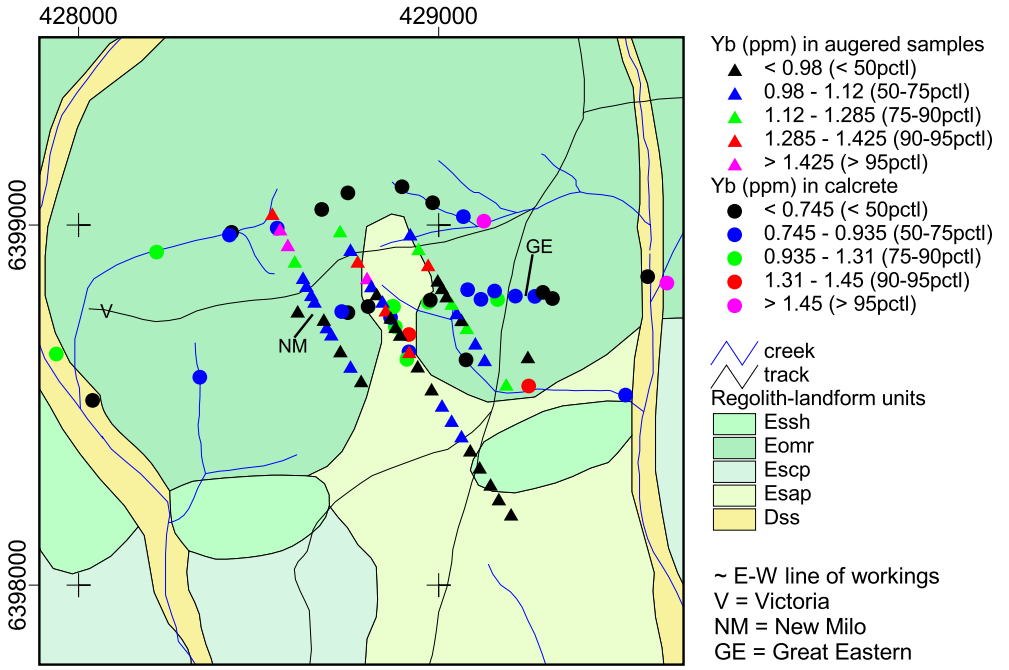


Figure A1.4.56. Distribution of Yb (ppm) in augered and calcrete samples

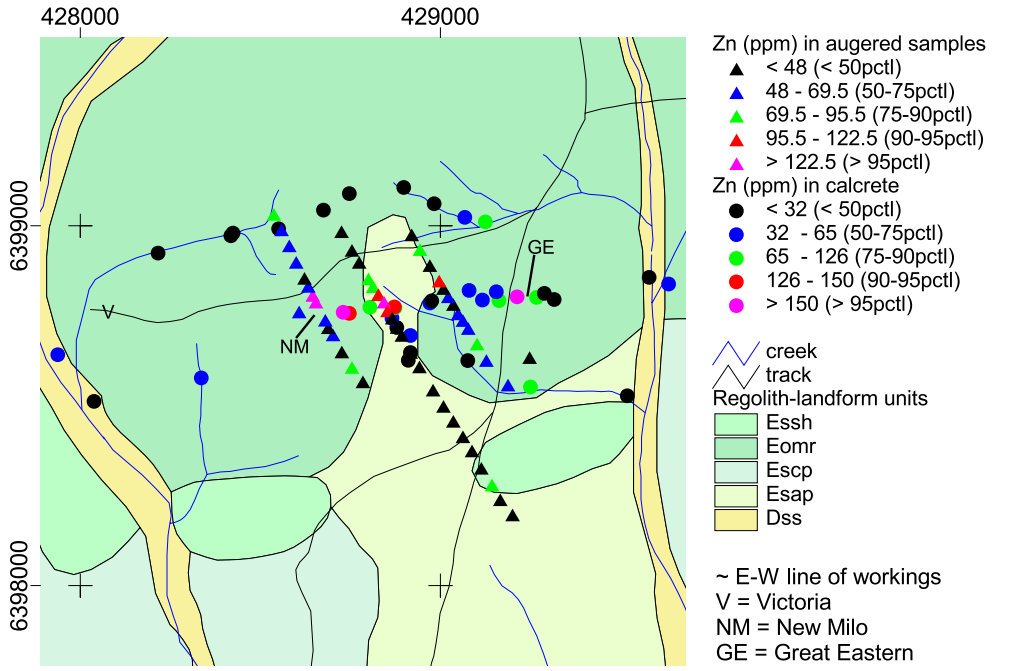


Figure A1.4.57. Distribution of Zn (ppm) in augered and calcrete samples

Appendix 1.5
Statistical summaries

Wadnaminga - augered samples

	AU	AL	BA	CA	CR
N of cases	51	51	51	51	51
Minimum	-1.000	1.290	155.000	0.640	9.000
Maximum	150.000	5.580	1950.000	27.600	83.000
Range	151.000	4.290	1795.000	26.960	74.000
Median	8.500	3.060	320.000	16.500	23.000
Mean	23.196	3.178	419.804	15.562	27.686
Standard Dev	32.594	1.058	346.396	6.344	16.183
Variance	1062.400	1.120	119989.961	40.241	261.900

	CU	FE	K	MG	MN
N of cases	51	51	51	51	51
Minimum	13.000	0.770	0.270	0.940	105.000
Maximum	68.000	4.900	1.640	7.050	1250.000
Range	55.000	4.130	1.370	6.110	1145.000
Median	21.000	1.930	0.860	2.100	250.000
Mean	26.118	2.154	0.900	2.420	317.353
Standard Dev	13.296	0.845	0.374	1.241	206.178
Variance	176.786	0.715	0.140	1.541	42509.353

	NA	NB	NI	P	PB
N of cases	51	51	51	51	51
Minimum	0.165	-5.000	5.000	125.000	-5.000
Maximum	1.140	10.000	29.000	500.000	410.000
Range	0.975	15.000	24.000	375.000	415.000
Median	0.435	-5.000	16.000	260.000	5.000
Mean	0.485	-4.510	16.020	263.725	30.686
Standard Dev	0.235	2.501	5.515	82.921	82.577
Variance	0.055	6.255	30.420	6875.843	6819.020

	S	TI	V	ZN	AG
N of cases	51	51	51	51	51
Minimum	100.000	950.000	26.000	20.000	-0.100
Maximum	1050.000	4750.000	110.000	290.000	0.300
Range	950.000	3800.000	84.000	270.000	0.400
Median	300.000	1650.000	59.000	51.000	-0.100
Mean	309.804	1797.059	59.941	58.863	0.022
Standard Dev	181.113	715.291	19.527	44.371	0.132
Variance	32801.961	511641.176	381.296	1968.761	0.017

	AS	BI	CD	CE	CO
N of cases	51	51	51	51	51
Minimum	0.500	-0.100	-0.100	12.500	5.500
Maximum	115.000	0.900	3.400	50.000	34.500
Range	114.500	1.000	3.500	37.500	29.000
Median	8.000	0.100	0.200	30.000	12.500
Mean	15.529	0.147	0.300	30.892	14.206
Standard Dev	20.215	0.229	0.559	8.604	5.890
Variance	408.634	0.053	0.313	74.033	34.692

	CS	GA	IN	LA	MO
N of cases	51	51	51	51	51
Minimum	0.700	2.800	-0.050	12.000	-0.100
Maximum	3.300	16.000	0.100	34.500	2.600
Range	2.600	13.200	0.150	22.500	2.700
Median	1.500	8.000	-0.050	22.000	0.400
Mean	1.631	8.129	-0.039	22.098	0.486
Standard Dev	0.582	2.984	0.034	5.149	0.395
Variance	0.338	8.903	0.001	26.510	0.156

	ND	RB	SB	SE	SM
N of cases	51	51	51	51	51
Minimum	10.000	15.000	-0.500	-0.500	2.100
Maximum	26.000	90.000	-0.500	1.000	5.500
Range	16.000	75.000	0.000	1.500	3.400
Median	18.000	46.000	-0.500	-0.500	3.800
Mean	17.941	48.980	-0.500	-0.431	3.851
Standard Dev	3.919	19.116	0.000	0.283	0.779
Variance	15.356	365.410	0.000	0.080	0.606

	SN	SR	TE	TH	TL
N of cases	51	51	51	51	51
Minimum	0.600	58.000	-0.200	2.500	-0.100
Maximum	3.600	1550.000	-0.200	14.000	0.400
Range	3.000	1492.000	0.000	11.500	0.500
Median	0.900	410.000	-0.200	6.000	0.200
Mean	1.084	473.157	-0.200	6.237	0.153
Standard Dev	0.549	326.998	0.000	2.293	0.142
Variance	0.301	106927.455	0.000	5.256	0.020

	U	W	Y	HF	DY
N of cases	51	51	51	51	51
Minimum	0.490	-0.100	6.500	-1.000	1.150
Maximum	3.700	6.000	17.500	4.000	3.300
Range	3.210	6.100	11.000	5.000	2.150
Median	0.860	0.300	10.500	2.000	1.950
Mean	1.012	0.484	10.980	1.510	1.980
Standard Dev	0.510	0.880	2.577	1.255	0.424
Variance	0.260	0.774	6.640	1.575	0.180

	ER	EU	GD	HO	LU
N of cases	51	51	51	51	51
Minimum	0.550	0.460	1.500	0.190	0.090
Maximum	1.600	1.400	3.900	0.590	0.260
Range	1.050	0.940	2.400	0.400	0.170
Median	0.900	0.900	2.700	0.320	0.160
Mean	0.947	0.894	2.690	0.342	0.167
Standard Dev	0.208	0.188	0.544	0.077	0.033
Variance	0.043	0.035	0.295	0.006	0.001

	PR	TB	TM	YB	HG
N of cases	51	51	51	51	51
Minimum	2.500	0.170	0.100	0.600	-0.050
Maximum	7.000	0.480	0.250	1.700	-0.050
Range	4.500	0.310	0.150	1.100	0.000
Median	4.700	0.290	0.150	1.000	-0.050
Mean	4.720	0.304	0.155	1.039	-0.050
Standard Dev	1.108	0.063	0.032	0.216	0.000
Variance	1.227	0.004	0.001	0.047	0.000

Wadnaminga - calcrete samples

	AU	AL	BA	CA	CR
N of cases	38	38	38	38	38
Minimum	-1.000	0.790	145.000	8.020	7.000
Maximum	1185.000	5.920	700.000	32.000	64.000
Range	1186.000	5.130	555.000	23.980	57.000
Median	18.500	2.095	300.000	24.050	18.500
Mean	132.513	2.414	330.921	23.176	22.237
Standard Dev	273.189	1.146	130.937	5.801	11.799
Variance	74632.034	1.313	17144.399	33.650	139.213

	CU	FE	K	MG	MN
N of cases	38	38	38	38	38
Minimum	11.000	0.485	0.185	0.680	80.000
Maximum	54.000	3.950	2.100	9.690	950.000
Range	43.000	3.465	1.915	9.010	870.000
Median	19.500	1.450	0.538	1.535	197.500
Mean	22.895	1.666	0.645	2.328	289.211
Standard Dev	10.737	0.810	0.369	2.081	216.275
Variance	115.286	0.656	0.136	4.331	46775.036

	NA	NB	NI	P	PB
N of cases	38	38	38	38	38
Minimum	0.090	-5.000	2.000	95.000	-5.000
Maximum	1.110	5.000	30.000	340.000	420.000
Range	1.020	10.000	28.000	245.000	425.000
Median	0.260	-5.000	11.000	240.000	10.000
Mean	0.301	-4.737	12.632	238.947	29.342
Standard Dev	0.197	1.622	6.602	58.865	73.990
Variance	0.039	2.632	43.590	3465.078	5474.555

	S	TI	V	ZN	AG
N of cases	38	38	38	38	38
Minimum	150.000	500.000	21.000	13.000	-0.100
Maximum	700.000	3850.000	110.000	240.000	0.700
Range	550.000	3350.000	89.000	227.000	0.800
Median	300.000	1375.000	45.500	33.000	0.100
Mean	347.368	1602.632	52.000	56.632	0.058
Standard Dev	135.541	782.058	23.956	50.370	0.198
Variance	18371.266	611614.509	573.892	2537.104	0.039

	AS	BI	CD	CE	CO
N of cases	38	38	38	38	38
Minimum	2.000	-0.100	-0.100	9.000	4.900
Maximum	145.000	1.100	0.700	67.000	30.500
Range	143.000	1.200	0.800	58.000	25.600
Median	7.000	-0.100	-0.100	26.500	11.500
Mean	21.579	0.013	0.034	28.776	12.839
Standard Dev	33.339	0.234	0.191	12.077	5.402
Variance	1111.480	0.055	0.036	145.861	29.179

	CS	GA	IN	LA	MO
N of cases	38	38	38	38	38
Minimum	0.500	1.700	-0.050	9.500	-0.100
Maximum	2.800	14.500	0.050	40.000	1.100
Range	2.300	12.800	0.100	30.500	1.200
Median	1.250	4.800	-0.050	18.500	0.200
Mean	1.300	5.708	-0.045	19.566	0.171
Standard Dev	0.527	2.844	0.023	6.873	0.261
Variance	0.277	8.086	0.001	47.232	0.068

	ND	RB	SB	SE	SM
N of cases	38	38	38	38	38
Minimum	7.000	10.500	-0.500	-0.500	1.750
Maximum	28.500	80.000	-0.500	-0.500	5.500
Range	21.500	69.500	0.000	0.000	3.750
Median	13.250	25.500	-0.500	-0.500	2.950
Mean	14.816	29.026	-0.500	-0.500	3.159
Standard Dev	5.037	15.432	0.000	0.000	0.967
Variance	25.371	238.161	0.000	0.000	0.935

	SN	SR	TE	TH	TL
N of cases	38	38	38	38	38
Minimum	0.600	130.000	-0.200	1.500	-0.100
Maximum	6.500	1200.000	-0.200	13.000	0.500
Range	5.900	1070.000	0.000	11.500	0.600
Median	1.050	350.000	-0.200	4.400	0.000
Mean	1.284	478.026	-0.200	5.113	0.037
Standard Dev	0.976	296.109	0.000	2.671	0.160
Variance	0.952	87680.459	0.000	7.132	0.026

	U	W	Y	HF	DY
N of cases	38	38	38	38	38
Minimum	0.510	-0.100	5.000	-1.000	0.900
Maximum	1.900	1.500	15.000	4.000	2.900
Range	1.390	1.600	10.000	5.000	2.000
Median	0.915	0.150	8.750	1.000	1.475
Mean	1.030	0.258	9.224	0.605	1.655
Standard Dev	0.370	0.417	3.082	1.480	0.577
Variance	0.137	0.174	9.496	2.191	0.333

	ER	EU	GD	HO	LU
N of cases	38	38	38	38	38
Minimum	0.400	0.380	1.250	0.160	0.080
Maximum	1.400	1.250	4.200	0.510	0.240
Range	1.000	0.870	2.950	0.350	0.160
Median	0.700	0.735	2.150	0.275	0.130
Mean	0.797	0.764	2.386	0.292	0.139
Standard Dev	0.276	0.219	0.807	0.104	0.045
Variance	0.076	0.048	0.651	0.011	0.002

	PR	TB	TM	YB	HG
N of cases	38	38	38	38	38
Minimum	1.800	0.140	0.050	0.500	-0.050
Maximum	8.000	0.460	0.250	1.550	-0.050
Range	6.200	0.320	0.200	1.050	0.000
Median	3.500	0.235	0.100	0.750	-0.050
Mean	3.876	0.257	0.129	0.871	-0.050
Standard Dev	1.370	0.089	0.046	0.276	0.000
Variance	1.877	0.008	0.002	0.076	0.000

Wadnaminga - rock samples

	AU	AL	BA	CA	CR
N of cases	5	5	5	5	5
Minimum	3.000	2.900	260.000	0.565	29.000
Maximum	34.000	7.450	470.000	9.320	135.000
Range	31.000	4.550	210.000	8.755	106.000
Median	4.000	6.940	390.000	0.910	62.000
Mean	12.800	6.142	368.000	2.523	68.800
Standard Dev	13.590	1.889	80.436	3.804	40.289
C.V.	1.062	0.308	0.219	1.508	0.586

	CU	FE	K	MG	MN
N of cases	5	5	5	5	5
Minimum	18.000	3.840	0.935	0.325	190.000
Maximum	78.000	5.690	2.390	5.190	1950.000
Range	60.000	1.850	1.455	4.865	1760.000
Median	66.000	5.280	2.060	3.980	270.000
Mean	58.400	5.036	1.726	3.535	678.000
Standard Dev	24.100	0.751	0.728	1.888	746.405
C.V.	0.413	0.149	0.422	0.534	1.101

	NA	NB	NI	P	PB
N of cases	5	5	5	5	5
Minimum	0.565	-5.000	7.000	250.000	-5.000
Maximum	2.650	-5.000	33.000	950.000	125.000
Range	2.085	0.000	26.000	700.000	130.000
Median	1.460	-5.000	22.000	420.000	20.000
Mean	1.475	-5.000	20.600	496.000	31.000
Standard Dev	0.778	0.000	9.555	265.198	54.014
C.V.	0.527	0.000	0.464	0.535	1.742

	S	TI	V	ZN	AG
N of cases	5	5	5	5	5
Minimum	-50.000	550.000	27.000	25.000	-0.100
Maximum	200.000	4250.000	125.000	110.000	0.200
Range	250.000	3700.000	98.000	85.000	0.300
Median	50.000	3800.000	110.000	105.000	0.100
Mean	60.000	2890.000	93.600	81.000	0.100
Standard Dev	114.018	1570.589	38.617	37.316	0.122
C.V.	1.900	0.543	0.413	0.461	1.225

	AS	BI	CD	CE	CO
N of cases	5	5	5	5	5
Minimum	2.000	-0.100	-0.100	10.000	8.500
Maximum	29.500	1.100	2.400	43.500	31.000
Range	27.500	1.200	2.500	33.500	22.500
Median	3.000	0.300	0.200	35.000	20.000
Mean	12.000	0.360	0.620	29.700	18.000
Standard Dev	13.215	0.456	1.018	13.146	8.993
C.V.	1.101	1.267	1.642	0.443	0.500

	CS	GA	IN	LA	MO
N of cases	5	5	5	5	5
Minimum	0.400	4.800	-0.050	6.500	0.400
Maximum	5.000	20.500	0.100	28.000	3.300
Range	4.600	15.700	0.150	21.500	2.900
Median	3.700	20.000	0.050	18.000	0.800
Mean	2.720	15.760	0.050	17.900	1.560
Standard Dev	2.087	6.904	0.061	7.829	1.379
C.V.	0.767	0.438	1.225	0.437	0.884

	ND	RB	SB	SE	SM
N of cases	5	5	5	5	5
Minimum	5.500	34.500	-0.500	-0.500	1.650
Maximum	23.000	120.000	-0.500	-0.500	4.600
Range	17.500	85.500	0.000	0.000	2.950
Median	17.500	88.000	-0.500	-0.500	3.700
Mean	15.300	75.200	-0.500	-0.500	3.370
Standard Dev	6.620	38.892	0.000	0.000	1.100
C.V.	0.433	0.517	0.000	0.000	0.326

	SN	SR	TE	TH	TL
N of cases	5	5	5	5	5
Minimum	1.600	49.000	-0.200	2.800	-0.100
Maximum	4.100	135.000	-0.200	14.000	0.600
Range	2.500	86.000	0.000	11.200	0.700
Median	2.300	82.000	-0.200	10.500	0.400
Mean	2.760	89.600	-0.200	9.460	0.260
Standard Dev	1.014	33.516	0.000	4.217	0.336
C.V.	0.367	0.374	0.000	0.446	1.293

	U	W	Y	HF	DY
N of cases	5	5	5	5	5
Minimum	0.880	-0.100	7.000	1.000	1.200
Maximum	8.000	1.800	19.500	4.000	3.300
Range	7.120	1.900	12.500	3.000	2.100
Median	1.350	0.600	8.000	4.000	1.650
Mean	2.576	0.680	10.100	3.400	1.880
Standard Dev	3.043	0.712	5.284	1.342	0.821
C.V.	1.181	1.047	0.523	0.395	0.436

	ER	EU	GD	HO	LU
N of cases	5	5	5	5	5
Minimum	0.550	0.840	1.400	0.200	0.110
Maximum	1.800	1.250	3.100	0.640	0.350
Range	1.250	0.410	1.700	0.440	0.240
Median	0.750	0.930	2.500	0.270	0.160
Mean	0.920	0.990	2.420	0.328	0.190
Standard Dev	0.501	0.156	0.646	0.178	0.092
C.V.	0.544	0.158	0.267	0.542	0.487

	PR	TB	TM	YB	HG
N of cases	5	5	5	5	5
Minimum	1.450	0.190	0.100	0.650	-0.050
Maximum	6.000	0.440	0.300	2.200	-0.050
Range	4.550	0.250	0.200	1.550	0.000
Median	4.600	0.280	0.100	0.950	-0.050
Mean	3.950	0.298	0.150	1.140	-0.050
Standard Dev	1.733	0.090	0.087	0.608	0.000
C.V.	0.439	0.302	0.577	0.533	0.000

Wadnaminga <6 mm augered samples

n=51

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
Ag	1															
Al	0.623	1														
As	0.373	0.144	1													
Au	0.153	-0.176	0.772	1												
Ba	0.154	0.093	0.58	0.625	1											
Bi	0.388	0.191	0.265	0.123	-0.18	1										
Ca	-0.555	-0.69	-0.236	0.016	0.047	-0.415	1									
Cd	0.166	-0.15	0.759	0.741	0.608	-0.001	0.101	1								
Ce	0.486	0.738	0.006	-0.203	-0.041	0.348	-0.679	-0.182	1							
Co	0.462	0.489	0.202	0.069	0.252	0.095	-0.312	0.129	0.34	1						
Cr	0.646	0.868	0.09	-0.189	0.026	0.155	-0.711	-0.168	0.638	0.498	1					
Cs	0.404	0.744	-0.215	-0.402	-0.232	0.123	-0.577	-0.469	0.571	0.335	0.635	1				
Cu	0.132	0.218	0.092	-0.066	-0.206	0.656	-0.283	-0.027	0.37	0.276	0.121	0.159	1			
Dy	0.293	0.381	-0.109	-0.21	-0.147	0.247	-0.335	-0.117	0.594	0.577	0.454	0.405	0.276	1		
Er	0.237	0.303	-0.116	-0.211	-0.206	0.209	-0.274	-0.077	0.482	0.56	0.382	0.328	0.27	0.971	1	
Eu	0.402	0.457	0.119	0.094	0.428	0.06	-0.22	0.132	0.584	0.569	0.407	0.231	0.108	0.633	0.533	1
Fe	0.738	0.86	0.149	-0.167	-0.077	0.332	-0.732	-0.13	0.614	0.527	0.843	0.675	0.301	0.364	0.302	0.331
Ga	0.658	0.982	0.187	-0.109	0.136	0.171	-0.727	-0.103	0.704	0.508	0.901	0.713	0.157	0.368	0.291	0.451
Gd	0.341	0.491	-0.079	-0.165	0.027	0.27	-0.384	-0.125	0.773	0.555	0.466	0.401	0.304	0.881	0.8	0.814
Hf	0.512	0.935	0.088	-0.248	0.087	0.088	-0.639	-0.221	0.663	0.445	0.803	0.741	0.143	0.298	0.236	0.344
Ho	0.206	0.265	-0.122	-0.188	-0.159	0.203	-0.269	-0.098	0.49	0.533	0.366	0.314	0.227	0.978	0.981	0.571
In	0.382	0.308	0.212	0.102	0.086	0.294	-0.238	0.124	0.228	0.182	0.307	0.112	0.369	0.116	0.118	0.244
K	0.617	0.875	0.377	0.023	0.245	0.264	-0.746	0.017	0.595	0.432	0.79	0.593	0.164	0.224	0.162	0.29
La	0.379	0.597	-0.066	-0.191	0.031	0.31	-0.476	-0.186	0.917	0.396	0.477	0.46	0.334	0.693	0.584	0.763
Lu	0.382	0.555	-0.013	-0.185	-0.046	0.159	-0.463	-0.08	0.617	0.631	0.602	0.489	0.223	0.933	0.921	0.653
Mg	0.139	0.038	0.325	0.326	0.276	-0.168	-0.103	0.343	-0.179	0.177	0.05	0.04	-0.155	-0.186	-0.184	-0.02
Mn	0.401	0.328	0.187	0.067	0.129	0.196	-0.276	0.261	0.27	0.632	0.371	0.234	0.2	0.591	0.574	0.475
Mo	0.22	0.041	0.212	0.132	-0.165	0.461	-0.556	0.071	0.269	0.028	0.063	0.104	0.316	0.178	0.165	-0.051
Na	0.494	0.704	0.205	-0.028	0.24	-0.094	-0.367	0.115	0.549	0.391	0.52	0.487	0.103	0.205	0.126	0.471
Nb	0.334	0.316	0.097	-0.03	0.023	0.192	-0.33	-0.119	0.299	0.208	0.309	0.28	0.13	0.207	0.159	0.251
Nd	0.406	0.602	-0.062	-0.195	-0.007	0.35	-0.497	-0.196	0.92	0.397	0.501	0.459	0.362	0.718	0.616	0.748
Ni	0.612	0.672	0.386	0.13	0.17	0.335	-0.717	0.142	0.532	0.721	0.666	0.469	0.3	0.505	0.464	0.438
P	0.425	0.566	0.041	-0.145	0.039	0.008	-0.29	0.092	0.388	0.505	0.64	0.382	0.025	0.486	0.468	0.383
Pb	0.1	0.051	0.655	0.69	0.394	0.347	-0.208	0.503	0.104	0.238	0.015	-0.144	0.209	0.088	0.049	0.246
Pr	0.387	0.623	-0.081	-0.224	-0.026	0.363	-0.518	-0.223	0.937	0.366	0.491	0.493	0.384	0.675	0.572	0.698
Rb	0.646	0.82	0.388	0.108	0.293	0.194	-0.741	0.063	0.538	0.52	0.798	0.577	0.102	0.268	0.205	0.378
S	-0.401	-0.575	0.139	0.424	0.312	-0.13	0.56	0.361	-0.44	-0.342	-0.545	-0.636	-0.063	-0.316	-0.286	-0.085
Se	-0.026	-0.215	0.023	-0.122	-0.285	0.213	0.06	-0.095	-0.095	-0.115	-0.244	-0.242	0.253	-0.165	-0.159	-0.192
Sm	0.413	0.555	-0.002	-0.078	0.204	0.223	-0.413	-0.067	0.823	0.5	0.474	0.401	0.262	0.726	0.61	0.903
Sn	0.366	0.6	-0.049	-0.227	-0.096	0.323	-0.615	-0.303	0.658	0.227	0.528	0.658	0.237	0.37	0.288	0.243
Sr	-0.308	-0.623	0.317	0.588	0.371	-0.224	0.429	0.578	-0.558	-0.227	-0.593	-0.611	-0.23	-0.4	-0.346	-0.22
Tb	0.339	0.492	-0.113	-0.219	-0.071	0.256	-0.409	-0.159	0.738	0.558	0.526	0.466	0.281	0.953	0.879	0.731
Th	0.527	0.861	-0.004	-0.268	-0.029	0.331	-0.756	-0.286	0.862	0.401	0.734	0.77	0.336	0.456	0.362	0.387
Ti	0.49	0.74	-0.204	-0.385	-0.248	0.12	-0.604	-0.362	0.657	0.269	0.799	0.777	0.077	0.532	0.46	0.302
Tl	0.532	0.771	0.291	-0.034	0.099	0.328	-0.689	-0.111	0.476	0.446	0.711	0.623	0.247	0.287	0.251	0.226
Tm	0.288	0.274	-0.124	-0.199	-0.178	0.123	-0.247	-0.042	0.431	0.484	0.365	0.312	0.157	0.8	0.826	0.513
U	0.377	0.369	0.372	0.393	0.498	0.038	-0.418	0.287	0.286	0.363	0.303	0.255	0.033	0.08	0.025	0.286
V	0.761	0.821	0.401	0.12	0.289	0.133	-0.587	0.193	0.47	0.595	0.829	0.482	0.092	0.316	0.264	0.467
W	0.356	0.199	0.656	0.299	0.285	0.286	-0.301	0.354	0.193	0.119	0.163	-0.129	0.161	0.067	0.078	0.166
Y	0.136	0.148	-0.097	-0.095	-0.103	0.133	-0.165	-0.019	0.388	0.509	0.258	0.214	0.154	0.935	0.957	0.566
Yb	0.366	0.476	-0.048	-0.204	-0.116	0.186	-0.407	-0.085	0.594	0.603	0.551	0.462	0.226	0.964	0.958	0.607
Zn	0.448	0.607	0.487	0.219	0.288	0.052	-0.498	0.189	0.321	0.536	0.618	0.284	0.048	0.247	0.206	0.401

	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb
Fe	1																			
Ga	0.869	1																		
Gd	0.388	0.468	1																	
Hf	0.751	0.927	0.418	1																
Ho	0.256	0.256	0.817	0.196	1															
In	0.301	0.327	0.175	0.21	0.083	1														
K	0.791	0.894	0.318	0.836	0.128	0.316	1													
La	0.438	0.555	0.904	0.523	0.607	0.21	0.419	1												
Lu	0.49	0.551	0.846	0.478	0.908	0.166	0.4	0.679	1											
Mg	0.09	0.091	-0.225	0.02	-0.193	0.186	0.089	-0.225	-0.082	1										
Mn	0.393	0.327	0.498	0.253	0.562	0.23	0.201	0.285	0.593	0.216	1									
Mo	0.203	0.066	0.16	0.021	0.168	-0.062	0.186	0.165	0.115	-0.117	0.078	1								
Na	0.601	0.661	0.362	0.653	0.096	0.135	0.512	0.459	0.328	0.204	0.357	-0.015	1							
Nb	0.323	0.314	0.252	0.327	0.149	0.273	0.336	0.255	0.25	-0.148	0.138	0.267	0.309	1						
Nd	0.463	0.563	0.921	0.524	0.632	0.217	0.43	0.989	0.705	-0.252	0.308	0.21	0.447	0.269	1					
Ni	0.696	0.693	0.482	0.612	0.447	0.215	0.671	0.428	0.607	0.214	0.593	0.308	0.473	0.31	0.44	1				
P	0.556	0.587	0.432	0.489	0.426	0.178	0.426	0.334	0.557	0.214	0.612	-0.154	0.391	-0.118	0.35	0.43	1			
Pb	0.026	0.077	0.122	-0.023	0.069	0.192	0.182	0.098	0.071	0.183	0.301	0.235	-0.023	-0.022	0.103	0.308	0.07	1		
Pr	0.465	0.575	0.885	0.554	0.587	0.208	0.451	0.987	0.666	-0.246	0.273	0.211	0.448	0.236	0.992	0.437	0.336	0.098	1	
Rb	0.772	0.86	0.328	0.76	0.195	0.318	0.938	0.397	0.45	0.221	0.24	0.191	0.497	0.336	0.405	0.715	0.394	0.206	0.411	1
S	-0.591	-0.567	-0.293	-0.611	-0.243	-0.013	-0.475	-0.321	-0.41	0.033	-0.34	-0.182	-0.339	-0.333	-0.326	-0.506	-0.312	0.191	-0.337	-0.455
Se	0.052	-0.247	-0.155	-0.268	-0.173	-0.082	-0.146	-0.057	-0.248	-0.084	-0.242	0.114	-0.067	-0.05	-0.055	-0.171	-0.193	-0.117	-0.051	-0.189
Sm	0.429	0.531	0.928	0.457	0.649	0.215	0.388	0.939	0.72	-0.193	0.385	0.131	0.449	0.266	0.939	0.458	0.348	0.163	0.912	0.422
Sn	0.512	0.58	0.449	0.588	0.313	0.178	0.594	0.565	0.392	-0.206	0.061	0.268	0.181	0.27	0.553	0.424	0.198	0.002	0.592	0.542
Sr	-0.534	-0.58	-0.466	-0.631	-0.313	-0.19	-0.455	-0.504	-0.439	0.508	-0.091	-0.03	-0.309	-0.337	-0.525	-0.32	-0.248	0.255	-0.531	-0.343
Tb	0.43	0.475	0.968	0.414	0.895	0.156	0.316	0.83	0.906	-0.199	0.558	0.165	0.331	0.253	0.853	0.5	0.512	0.09	0.815	0.33
Th	0.746	0.836	0.6	0.837	0.349	0.157	0.8	0.728	0.544	-0.122	0.221	0.28	0.518	0.29	0.739	0.6	0.427	-0.009	0.774	0.713
Ti	0.725	0.74	0.488	0.656	0.447	0.133	0.58	0.507	0.607	-0.162	0.249	0.125	0.373	0.296	0.531	0.437	0.496	-0.155	0.535	0.556
Tl	0.713	0.777	0.274	0.724	0.221	0.249	0.86	0.334	0.438	0.205	0.191	0.154	0.445	0.303	0.353	0.676	0.32	0.163	0.379	0.856
Tm	0.306	0.265	0.697	0.205	0.818	0.087	0.135	0.52	0.784	-0.084	0.576	0.157	0.151	-0.032	0.561	0.336	0.524	0.044	0.525	0.249
U	0.348	0.41	0.164	0.351	0.051	0.185	0.479	0.219	0.144	0.52	0.253	0.161	0.432	0.143	0.201	0.466	0.089	0.176	0.207	0.587
V	0.827	0.858	0.339	0.72	0.236	0.401	0.771	0.329	0.499	0.301	0.55	0.023	0.662	0.316	0.347	0.705	0.647	0.177	0.328	0.815
W	0.199	0.217	0.123	0.18	0.062	0.263	0.432	0.184	0.157	0.119	0.014	0.231	0.108	0.164	0.204	0.321	-0.001	0.278	0.19	0.407
Y	0.131	0.149	0.769	0.093	0.973	0.018	0.029	0.543	0.856	-0.163	0.516	0.131	0.027	0.071	0.558	0.378	0.385	0.113	0.507	0.12
Yb	0.456	0.47	0.839	0.395	0.948	0.18	0.332	0.656	0.974	-0.121	0.605	0.134	0.289	0.225	0.684	0.559	0.549	0.063	0.643	0.372
Zn	0.581	0.632	0.279	0.516	0.184	0.33	0.59	0.258	0.394	0.415	0.427	0.025	0.509	0.091	0.262	0.674	0.479	0.42	0.246	0.606

	S	Se	Sm	Sn	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
S	1															
Se	0.072	1														
Sm	-0.231	-0.148	1													
Sn	-0.428	-0.21	0.505	1												
Sr	0.617	0.048	-0.407	-0.515	1											
Tb	-0.333	-0.178	0.854	0.461	-0.479	1										
Th	-0.553	-0.148	0.638	0.786	-0.609	0.589	1									
Ti	-0.555	-0.296	0.491	0.698	-0.631	0.582	0.752	1								
Tl	-0.414	-0.096	0.295	0.481	-0.414	0.302	0.677	0.516	1							
Tm	-0.267	-0.171	0.581	0.268	-0.238	0.756	0.328	0.417	0.166	1						
U	-0.096	-0.199	0.279	0.291	0.199	0.142	0.379	0.139	0.473	0.077	1					
V	-0.459	-0.22	0.402	0.327	-0.301	0.373	0.559	0.554	0.675	0.336	0.49	1				
W	0.079	0.202	0.183	0.171	0.017	0.072	0.18	-0.019	0.401	0.058	0.258	0.272	1			
Y	-0.149	-0.2	0.597	0.224	-0.2	0.835	0.228	0.336	0.134	0.805	0.028	0.148	0.052	1		
Yb	-0.377	-0.21	0.691	0.388	-0.438	0.92	0.489	0.586	0.38	0.825	0.114	0.442	0.129	0.894	1	
Zn	-0.269	-0.066	0.299	0.078	-0.208	0.289	0.34	0.283	0.599	0.142	0.364	0.701	0.388	0.138	0.345	1

At the 99.9% level, all values >0.44 or <-0.44 are significant; in the report, only values >0.5 or <-0.5 are discussed.

Wadnaminga - calcrete samples

n=38

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sm	Sn	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Ag	1
Al	0.385	1
As	0.568	0.32	1
Au	0.463	0.139	0.838	1
Ba	0.307	-0.01	0.545	0.545	1
Bi	0.333	0.363	0.145	-0.093	-0.16	1
Ca	-0.508	-0.717	-0.642	-0.338	-0.165	-0.374	1
Cd	0.899	0.295	0.544	0.426	0.204	0.347	-0.464	1
Ce	0.337	0.725	0.102	-0.052	-0.061	0.579	-0.472	0.288	1
Co	0.287	0.445	0.54	0.446	0.113	0.228	-0.51	0.291	0.485	1
Cr	0.461	0.886	0.196	0.036	-0.131	0.367	-0.567	0.395	0.749	0.445	1
Cs	0.096	0.786	-0.015	-0.095	-0.179	0.361	-0.473	0.059	0.731	0.328	0.734	1
Cu	0.464	0.604	0.673	0.533	0.187	0.148	-0.662	0.447	0.429	0.759	0.563	0.297	1
Dy	0.194	0.175	0.118	0.091	0.026	0.413	-0.309	0.276	0.573	0.582	0.237	0.275	0.315	1
Er	0.195	0.135	0.098	0.067	-0.01	0.407	-0.29	0.282	0.551	0.547	0.212	0.249	0.281	0.993	1
Eu	0.281	0.287	0.306	0.283	0.277	0.363	-0.406	0.344	0.599	0.665	0.276	0.296	0.441	0.926	0.896	1
Fe	0.254	0.955	0.236	0.018	-0.078	0.422	-0.66	0.182	0.776	0.49	0.882	0.813	0.599	0.252	0.208	0.344	1
Ga	0.376	0.99	0.34	0.151	-0.029	0.331	-0.738	0.283	0.697	0.478	0.89	0.767	0.646	0.155	0.117	0.264	0.949	1
Gd	0.185	0.221	0.1	0.073	0.007	0.409	-0.317	0.281	0.624	0.611	0.283	0.314	0.35	0.985	0.973	0.939	0.304	0.203	1
Hf	0.375	0.907	0.279	0.05	-0.011	0.392	-0.595	0.313	0.673	0.347	0.839	0.733	0.545	0.075	0.044	0.207	0.899	0.905	0.133	1
Ho	0.159	0.099	0.098	0.08	-0.01	0.383	-0.266	0.242	0.505	0.569	0.18	0.204	0.303	0.991	0.99	0.891	0.183	0.086	0.968	-0.006	1
In	0.3	0.387	0.129	0.065	0.038	0.108	-0.344	0.333	0.333	0.242	0.387	0.357	0.329	0.247	0.232	0.291	0.366	0.387	0.253	0.398	0.194	1
K	0.481	0.867	0.586	0.393	0.17	0.33	-0.822	0.405	0.634	0.598	0.758	0.579	0.777	0.277	0.238	0.406	0.817	0.89	0.305	0.75	0.213	0.333	1
La	0.109	0.27	-0.105	-0.137	-0.057	0.468	-0.204	0.151	0.733	0.496	0.33	0.418	0.206	0.907	0.9	0.853	0.366	0.238	0.933	0.223	0.88	0.275	0.253	1
Lu	0.337	0.381	0.278	0.196	0.043	0.449	-0.5	0.402	0.69	0.664	0.415	0.41	0.479	0.941	0.928	0.932	0.431	0.364	0.946	0.279	0.915	0.324	0.454	0.852	1
Mg	0.37	0.26	0.668	0.575	0.472	-0.119	-0.651	0.335	-0.023	0.354	0.127	0.135	0.474	0.077	0.072	0.179	0.153	0.281	0.059	0.149	0.064	0.226	0.409	-0.125	0.173	1
Mn	0.128	0.349	0.529	0.427	0.111	0.401	-0.433	0.156	0.446	0.763	0.269	0.269	0.561	0.601	0.574	0.607	0.399	0.353	0.582	0.189	0.596	0	0.518	0.45	0.612	0.292	1
Mo	0.01	0.15	-0.007	-0.149	-0.242	0.617	-0.218	0.15	0.411	0.358	0.182	0.253	0.183	0.608	0.611	0.503	0.242	0.148	0.6	0.14	0.612	0.238	0.157	0.59	0.596	-0.173	0.442	1
Na	0.21	0.783	0.332	0.278	0.091	0.211	-0.608	0.145	0.474	0.314	0.554	0.662	0.421	0.014	-0.026	0.196	0.71	0.773	0.06	0.681	-0.061	0.323	0.647	0.072	0.241	0.337	0.279	0.034	1
Nb	0.064	0.232	0.068	-0.023	0.068	0.254	-0.277	0.108	0.278	0.255	0.218	0.279	0.09	0.255	0.233	0.255	0.217	0.233	0.27	0.262	0.218	-0.039	0.247	0.278	0.248	0.172	0.217	0.186	0.217	1
Nd	0.18	0.325	0.033	-0.013	-0.024	0.486	-0.325	0.24	0.741	0.594	0.359	0.435	0.301	0.936	0.924	0.915	0.407	0.295	0.961	0.241	0.902	0.291	0.338	0.974	0.923	-0.023	0.541	0.604	0.176	0.278	1
Ni	0.285	0.714	0.464	0.278	0.1	0.34	-0.696	0.218	0.674	0.83	0.652	0.555	0.786	0.515	0.472	0.589	0.763	0.734	0.546	0.583	0.487	0.35	0.767	0.502	0.635	0.336	0.654	0.366	0.495	0.278	0.568	1
P	0.055	0.287	-0.349	-0.354	-0.298	0.483	-0.007	0.062	0.45	-0.008	0.354	0.379	-0.045	0.351	0.351	0.231	0.312	0.24	0.323	0.21	0.333	0.205	0.135	0.449	0.315	-0.404	0.158	0.477	0.209	0.24	0.414	0.177	1
Pb	0.437	0.234	0.855	0.736	0.512	0.078	-0.548	0.411	0.132	0.495	0.105	-0.067	0.59	0.194	0.186	0.366	0.16	0.248	0.189	0.194	0.18	-0.028	0.482	0.006	0.326	0.6	0.512	-0.057	0.227	0.085	0.118	0.422	-0.377	1
Pr	0.174	0.345	0.009	-0.042	-0.049	0.493	-0.322	0.222	0.761	0.578	0.374	0.451	0.287	0.918	0.905	0.898	0.428	0.315	0.947	0.266	0.884	0.291	0.336	0.974	0.913	-0.044	0.522	0.588	0.2	0.278	0.995	0.564	0.413	0.101	1
Rb	0.492	0.728	0.605	0.423	0.193	0.249	-0.86	0.475	0.462	0.519	0.628	0.488	0.744	0.263	0.235	0.365	0.655	0.764	0.284	0.607	0.209	0.333	0.921	0.166	0.423	0.578	0.412	0.146	0.55	0.232	0.267	0.644	-0.003	0.459	0.249	1
S	-0.288	-0.516	-0.428	-0.147	0.057	-0.299	0.74	-0.384	-0.391	-0.323	-0.427	-0.368	-0.4	-0.21	-0.196	-0.229	-0.504	-0.522	-0.236	-0.445	-0.162	-0.348	-0.552	-0.136	-0.336	-0.527	-0.347	-0.25	-0.379	-0.265	-0.219	-0.482	0.089	-0.329	-0.22	-0.603	1
Sm	0.246	0.335	0.168	0.112	0.088	0.477	-0.382	0.318	0.714	0.638	0.362	0.394	0.396	0.951	0.931	0.966	0.417	0.308	0.972	0.264	0.915	0.291	0.395	0.936	0.955	0.066	0.593	0.582	0.188	0.27	0.979	0.598	0.345	0.235	0.969	0.336	-0.259	1
Sn	0.187	0.856	0.082	-0.102	-0.082	0.371	-0.499	0.152	0.632	0.293	0.804	0.733	0.447	0.122	0.08	0.174	0.876	0.853	0.153	0.812	0.061	0.335	0.708	0.247	0.251	0.084	0.26	0.263	0.615	0.233	0.25	0.542	0.357	-0.029	0.278	0.573	-0.419	0.256	1
Sr	0.145	-0.358	0.527	0.655	0.5	-0.353	-0.037	0.173	-0.517	-0.004	-0.456	-0.493	0.142	-0.186	-0.176	-0.091	-0.473	-0.351	-0.227	-0.444	-0.149	-0.22	-0.103	-0.436	-0.158	0.551	0.068	-0.296	-0.137	-0.24	-0.341	-0.232	-0.553	0.52	-0.379	0.086	0.06	-0.248	-0.44	1
Tb	0.206	0.228	0.133	0.101	0.005	0.393	-0.344	0.304	0.603	0.615	0.287	0.314	0.381	0.988	0.978	0.936	0.308	0.211	0.989	0.134	0.974	0.253	0.322	0.905	0.956	0.085	0.601	0.611	0.077	0.263	0.947	0.544	0.343	0.204	0.93	0.311	-0.246	0.966	0.174	-0.192	1
Th	0.278	0.859	0.008	-0.168	-0.097	0.473	-0.503	0.179	0.867	0.31	0.802	0.809	0.332	0.29	0.26	0.361	0.881	0.831	0.344	0.814	0.205	0.345	0.67	0.492	0.444	-0.031	0.231	0.245	0.67	0.27	0.5	0.574	0.446	-0.002	0.535	0.488	-0.345	0.466	0.804	-0.616	0.332	1
Ti	0.226	0.813	-0.03	-0.168	-0.311	0.445	-0.466	0.188	0.762	0.339	0.823	0.837	0.359	0.221	0.197	0.251	0.847	0.8	0.281	0.797	0.155	0.361	0.587	0.399	0.38	0.002	0.191	0.201	0.657	0.248	0.431	0.539	0.377	-0.106	0.463	0.443	-0.362	0.387	0.764	-0.588	0.282	0.869	1
Tl	0.412	0.66	0.487	0.355	0.137	0.374	-0.662	0.44	0.658	0.55	0.629	0.555	0.606	0.373	0.346	0.455	0.643	0.658	0.402	0.573	0.316	0.362	0.735	0.365	0.529	0.332	0.459	0.345	0.518	0.268	0.444	0.659	0.104	0.39	0.423	0.717	-0.593	0.465	0.556	-0.031	0.422	0.525	0.472	1
Tm	0.274	0.081	0.147	0.08	-0.001	0.401	-0.257	0.387	0.515	0.601	0.206	0.219	0.334	0.906	0.909	0.842	0.164	0.068	0.893	0.052	0.905	0.264	0.195	0.82	0.879	0.091	0.526	0.597	-0.054	0.246	0.85	0.46	0.309	0.201	0.832	0.178	-0.207	0.878	0.075	-0.15	0.905	0.223	0.2	0.321	1
U	-0.002	0.127	0.282	0.048	0.376	0.007	-0.355	-0.041	0.164	0.153	-0.083	0.153	0.259	0.177	0.169	0.251	0.135	0.143	0.18	0.166	0.158	0.081	0.252	0.148	0.214	0.408	0.185	0.033	0.132	0.09	0.147	0.237	-0.214	0.271	0.148	0.347	-0.169	0.192	0.024	0.135	0.163	0.137	-0.039	0.066	0.126	1
V	0.41	0.881	0.598	0.379	0.204	0.324	-0.75	0.309	0.637	0.616	0.783	0.555	0.79	0.213	0.171	0.361	0.866	0.899	0.249	0.82	0.155	0.376	0.923	0.228	0.398	0.402	0.523	0.151	0.652	0.173	0.288	0.809	0.078	0.508	0.296	0.789	-0.542	0.352	0.727	-0.146	0.251	0.671	0.588	0.683	0.138	0.247	1
W	0.592	0.356	0.703	0.458	0.39	0.457	-0.558	0.622	0.314	0.534	0.314	0.053	0.578	0.401	0.374	0.538	0.311	0.356	0.407	0.419	0.371	0.269	0.55	0.293	0.489	0.317	0.486	0.355	0.181	0.242	0.354	0.48	0.035	0.6	0.335	0.505	-0.364	0.449	0.193	0.1	0.396	0.188	0.091	0.414	0.425	0.307	0.566	1
Y	0.14	-0.019	0.079	0.037	0.013	0.366	-0.227	0.234	0.418	0.498	0.071	0.103	0.22	0.962	0.972	0.848	0.058	-0.029	0.927	-0.098	0.979	0.151	0.117	0.837	0.868	0.07	0.538	0.615	-0.161	0.233	0.853	0.382	0.302	0.185	0.829	0.146	-0.12	0.863	-0.05	-0.093	0.935	0.109	0.042	0.25	0.894	0.206	0.051	0.37	1
Yb	0.337	0.303	0.218	0.167	0.025	0.463	-0.432	0.398	0.647	0.651	0.369	0.361	0.428	0.965	0.957	0.931	0.356	0.287	0.967	0.206	0.949	0.308	0.383	0.888	0.979	0.128	0.583	0.599	0.145	0.249	0.941	0.594	0.333	0.27	0.926	0.363	-0.252	0.959	0.189	-0.179	0.972	0.38	0.334	0.489	0.9	0.139	0.318	0.469	0.907	1
Zn	0.519	0.586	0.778	0.623	0.315	0.167	-0.77	0.449	0.416	0.635	0.473	0.3	0.791	0.313	0.285	0.448	0.538	0.608	0.33	0.477	0.284	0.258	0.735	0.16	0.475	0.645	0.58	-0.003	0.495	0.143	0.274	0.745	-0.134	0.746	0.269	0.703	-0.542	0.366	0.243	0.169	0.336	0.322	0.29	0.52	0.234	0.386	0.761	0.597	0.215	0.404	1

At the 99.9% level, all values >0.5 or <-0.5 are significant; in this report, only values >0.5 or <-0.5 are discussed.

APPENDIX 2.

FAUGH-A-BALLAGH

Appendix 2.1
Analyses of stream-sediment samples

Appendix 2.1

Faugh-a-Ballagh Stream sediments <2mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02
Sample_no	Field_no	Northing	Easting	Error	Description															
R448100	FABSS1	6438705	424925	4.4	sandy; many boulders (ironstone, granite, minor qz, rel. biotite-rich granite, biotite-rich schist (shd granite), minor calc-sil/albitic rock) in creek bed; 3m wide	0.2	62800	0.5	2		125	0.1	7350	-0.1	60	10	92	0.5	22	3.1
R448101	FABSS2	6438729	425003	3.6	sandy; a few boulders of granite; on banks: ironstone, granite, pegmatite, rare bi-rich schist, minor qv, and rare granite with mgt veinlets; 2m wide	0.3	63000	0.5	-1		110	0.1	6500	-0.1	100	15	145	0.5	29	4
R448102	FABSS3	6438753	425077	3.8	sandy, with rare large granite boulders; on banks: granite and pegmatite outcrop/subcrop, rare qv, very rare ironstone, rare bi-rich schist; 3m wide	0.2	77100	0.5	10		110	0.1	5850	-0.1	35.5	7	51	0.5	26	2.2
R448103	FABSS4	6438769	425142	7.5	sandy; boulders of granite, minor ironstone, bi-rich schist, rare pegmatite and minor qz; 1.5m wide	0.3	65800	-0.5	-1		120	0.2	6450	-0.1	69	11.5	110	0.5	28	3.5
R448104	FABSS5	6438836	425173	5.7	sandy, locally with patches rich in mgt; sparse boulders of: granite, rare ironstone, bi-rich granite; on banks: granite, ironstone, rare bi-rich granite/schist, minor pegmatite and qz; 2m wide	0.3	64500	0.5	-1		110	-0.1	7000	-0.1	105	15	130	0.5	22	4.3
R448105	FABSS6	6438904	425196	4.6	sandy; locally with gravel bars; boulders in creek: granite, minor ironstone, rare qz-epidote rock, minor bi-rich granite, minor shd granite with musc/bi; 1.5m wide	0.3	63900	-0.5	-1		195	-0.1	6000	-0.1	85	15	91	0.7	21	3.3
R448106	FABSS7	6439022	425211	5.2	sandy; a few boulders of granite and rare ironstone along banks; 3.5m wide	0.2	67900	-0.5	-1		160	-0.1	6050	-0.1	39.5	8	38	0.6	15	2.4
R448107	FABSS7A	6439011	425211	4.4	sandy; a few boulders of granite and rare ironstone along banks; 2.5m wide	0.2	71300	0.5	-1		160	-0.1	6300	-0.1	43.5	8	45	0.6	18	2.1
R448108	FABSS8	6439095	425288	4.5	sandy, locally with mgt-rich patches; boulders: granite, rare ironstone, rare bi-rich granite, minor pegmatite, minor qz; braided channel 5 m wide; active channel (sampled) 2m	0.3	72200	0.5	1		150	-0.1	6150	-0.1	63	12	99	0.5	19	2.9
R448109	FABSS9	6439245	425286	4.6	sandy; boulders in creek and on banks: granite, biotitic granite, pegmatite, sheared granite, very rare ironstone; 2m wide	0.3	76300	0.5	-1		145	-0.1	6000	-0.1	47.5	12	66	0.5	17	2.6
R448110	FABSS10	6439454	425533	7.5	sandy patch in rel. rocky creek bed; outcrop of granite/shd biotitic granite; minor well-rounded pebbles/cobbles of ironstone; rare qz; minor pegmatite; 2.5m wide	0.3	67100	1	-1	-1	165	-0.1	4850	-0.1	59	14.5	70	0.8	17	2.6
R448111	FABSS11	6438678	424917	4.5	sandy; sparse boulders of granite and rare ironstone; southern bank has calcrete coatings on granite outcrop; rare qz and minor bi-rich granite in creek; 2.5m wide	0.3	85300	0.5	-1		130	-0.1	6950	-0.1	61	7.5	64	0.4	12	3.3
R448112	FABSS12	6438618	424834	5.4	sandy; immed. upstream of pegmatite in granite and qv in albitised/calc-sil rock (with mgt veinlets); very rare ironstone in creek; 2m wide	0.4	76100	5.5	1		115	0.6	6300	-0.1	26.5	5	43	0.5	12	1.95
R448113	FABSS13	6438541	424834	5.4	sandy; adj. to outcrop of calc-sil rock; cobbles/pebbles of: calc-sil rock, minor ironstone, weathered granite, pegmatite; in open terrain (no trees); 2.5m wide	0.3	82000	-0.5	-1		110	0.2	6000	-0.1	28.5	6	55	0.4	12	2.2
R448114	FABSS14	6438484	424599	6.4	sandy; adj. to outcrop of calc-sil rock; calc-sil and qz lag on banks; very rare ironstone lag on northern bank; just below confluence; 1m wide	0.3	81400	1.5	-1		100	-0.1	6050	-0.1	49	4.1	42	0.6	8	2.6
R448115	FABSS15	6438728	424984	4.5	sandy; tributary to main creek draining Cu occurrences; pebbles/cobbles: granite, pegmatite, ironstone, biotitic granite, very rare qz; 0.4m wide	0.2	67200	2.5	-1		195	0.1	2850	-0.1	49	21.5	57	1.2	185	2.1

	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E
	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5
R448100	1.55	1	104000	20.5	3.9	4	0.52	-0.05	7900	34.5	0.27	2650	220	0.6	42600	10	30	10	310	-5
R448101	1.9	1.3	159000	22.5	5.5	4	0.7	-0.05	6300	62	0.31	2550	290	0.8	38200	10	44	11	320	-5
R448102	1.1	0.72	63300	21.5	2.7	4	0.39	-0.05	6650	20.5	0.19	2600	180	0.5	51200	10	20	8	320	-5
R448103	1.7	1.1	130000	21.5	4.3	4	0.59	-0.05	7300	40	0.3	2650	280	0.7	39200	10	33.5	11	320	-5
R448104	2	1.55	154000	22.5	6	4	0.72	-0.05	6500	65	0.33	2600	320	0.9	38000	15	50	14	360	-5
R448105	1.4	1.2	110000	21	5	4	0.5	-0.05	13400	54	0.22	2300	240	0.7	34000	10	40.5	13	300	-5
R448106	1.15	0.84	50000	20	3.1	3	0.4	-0.05	11700	24	0.2	2450	175	0.5	43000	10	23	8	300	-5
R448107	0.95	0.74	54400	20	2.9	3	0.35	-0.05	11800	25	0.17	2550	185	0.5	43300	10	23	7	320	-5
R448108	1.4	0.99	112000	21.5	4	4	0.51	-0.05	9650	36.5	0.25	2450	250	0.7	39000	10	31.5	10	330	-5
R448109	1.25	0.84	81100	20.5	3.4	4	0.45	-0.05	9850	25.5	0.22	2450	240	0.8	42600	10	25	9	390	-5
R448110	1.2	1	90000	22	3.9	4	0.44	-0.05	11900	35	0.2	2500	190	0.9	39600	10	31.5	12	320	-5
R448111	1.65	1.05	76300	23	4.3	4	0.58	-0.05	7450	33.5	0.28	2700	220	0.9	47200	10	32.5	7	360	-5
R448112	1	0.58	43800	22	2.2	4	0.35	-0.05	7350	15.5	0.19	2850	200	1.7	49800	10	16.5	4	280	-5
R448113	1.15	0.62	62200	22.5	2.4	4	0.41	-0.05	6450	15.5	0.21	2700	200	0.9	49500	10	16.5	4	330	-5
R448114	1.4	0.82	43200	22.5	3.2	4	0.48	-0.05	5400	30	0.24	3100	195	0.5	54300	10	27	3	330	-5
R448115	0.95	0.92	118000	20.5	3.2	4	0.34	0.05	14100	33.5	0.17	3450	190	1.6	27500	10	25.5	20	260	-5

	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
R448100	8.5	16.5	-50	-0.5	-0.5	5.5	3.8	59	0.47	-0.2	13.5	2650	-0.1	0.25	2.1	135	0.4	14	1.75	14
R448101	12.5	21	50	-0.5	-0.5	8	4.6	58	0.63	-0.2	22	3100	-0.1	0.3	2.7	195	0.5	19.5	2.1	19
R448102	5.5	9	50	-0.5	-0.5	3.9	3.3	51	0.33	-0.2	10	2050	-0.1	0.2	1.4	85	0.4	9	1.2	12
R448103	9	19	50	-0.5	-0.5	6.5	4.9	54	0.51	-0.2	16.5	3350	-0.1	0.3	2.3	160	0.4	16	1.9	16
R448104	14	23	100	-0.5	-0.5	9.5	5.5	60	0.69	-0.2	21	3950	-0.1	0.35	3	190	0.5	20	2.2	16
R448105	11.5	50	50	-0.5	-0.5	7.5	4.9	69	0.55	-0.2	21.5	2950	0.2	0.2	2.7	145	0.5	14	1.45	16
R448106	6.5	30	50	-0.5	-0.5	4.5	3.7	59	0.37	-0.2	10	2200	0.2	0.2	1.75	72	0.3	10.5	1.3	12
R448107	6.5	24	50	-0.5	-0.5	4.3	3.9	55	0.33	-0.2	12.5	2350	0.2	0.15	1.45	78	0.5	8	1.1	13
R448108	9	25	50	-0.5	-0.5	6	5.5	58	0.47	-0.2	15	3500	0.2	0.25	2.2	145	0.5	13	1.6	14
R448109	7	20.5	100	-0.5	-0.5	5	5	55	0.4	-0.2	14	3100	0.2	0.2	1.8	105	0.7	10.5	1.4	13
R448110	8.5	38	150	0.5	-0.5	6	4.7	63	0.44	-0.2	14	2500	0.2	0.2	2.4	110	0.8	11	1.3	16
R448111	9	15	-50	0.5	-0.5	6	4.3	62	0.51	-0.2	12.5	2350	-0.1	0.3	2	105	0.6	14.5	1.8	12
R448112	4.4	9.5	50	-0.5	-0.5	3.2	3.7	50	0.28	-0.2	8.5	2400	-0.1	0.15	1.2	66	1.4	8	1.2	13
R448113	4.4	8	-50	-0.5	-0.5	3.3	4	47.5	0.32	-0.2	8.5	2550	-0.1	0.2	1.25	89	0.7	9	1.4	12
R448114	7.5	5.5	50	-0.5	-0.5	4.9	4	45.5	0.39	-0.2	9	2600	-0.1	0.25	1.1	66	0.5	11.5	1.6	13
R448115	7	70	100	-0.5	-0.5	4.9	4	61	0.34	-0.2	18	2150	0.3	0.15	4.2	95	1.5	9	1.05	22

Appendix 2.2
Element plots for stream-sediment samples

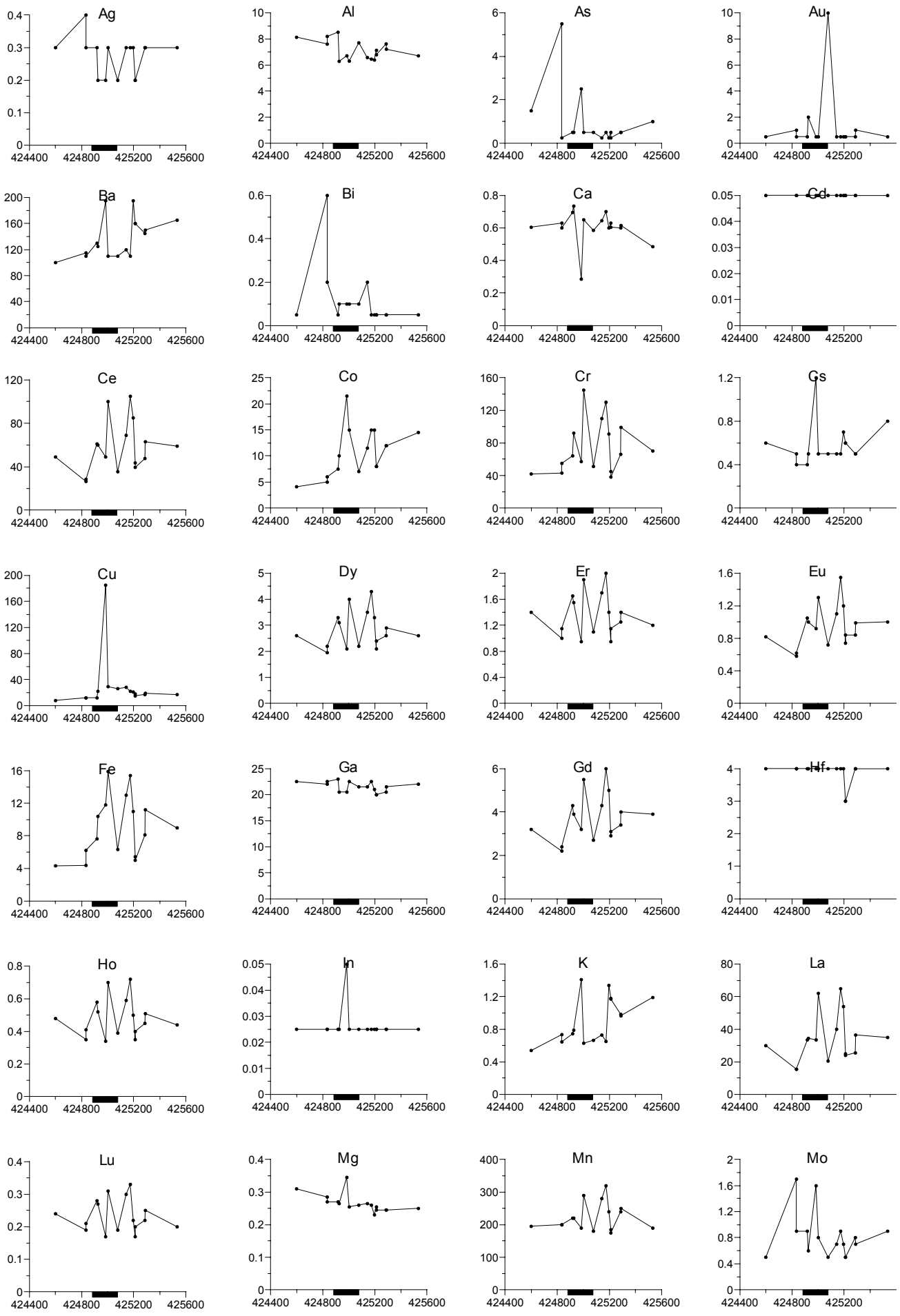


Figure A2.2a: Stream sediment samples from Faugh-a-Ballagh. Element concentrations on y axis and easting on x axis. Black rectangle indicates approximate position of mineralisation. Majors in %, minors in ppm, Au in ppb.

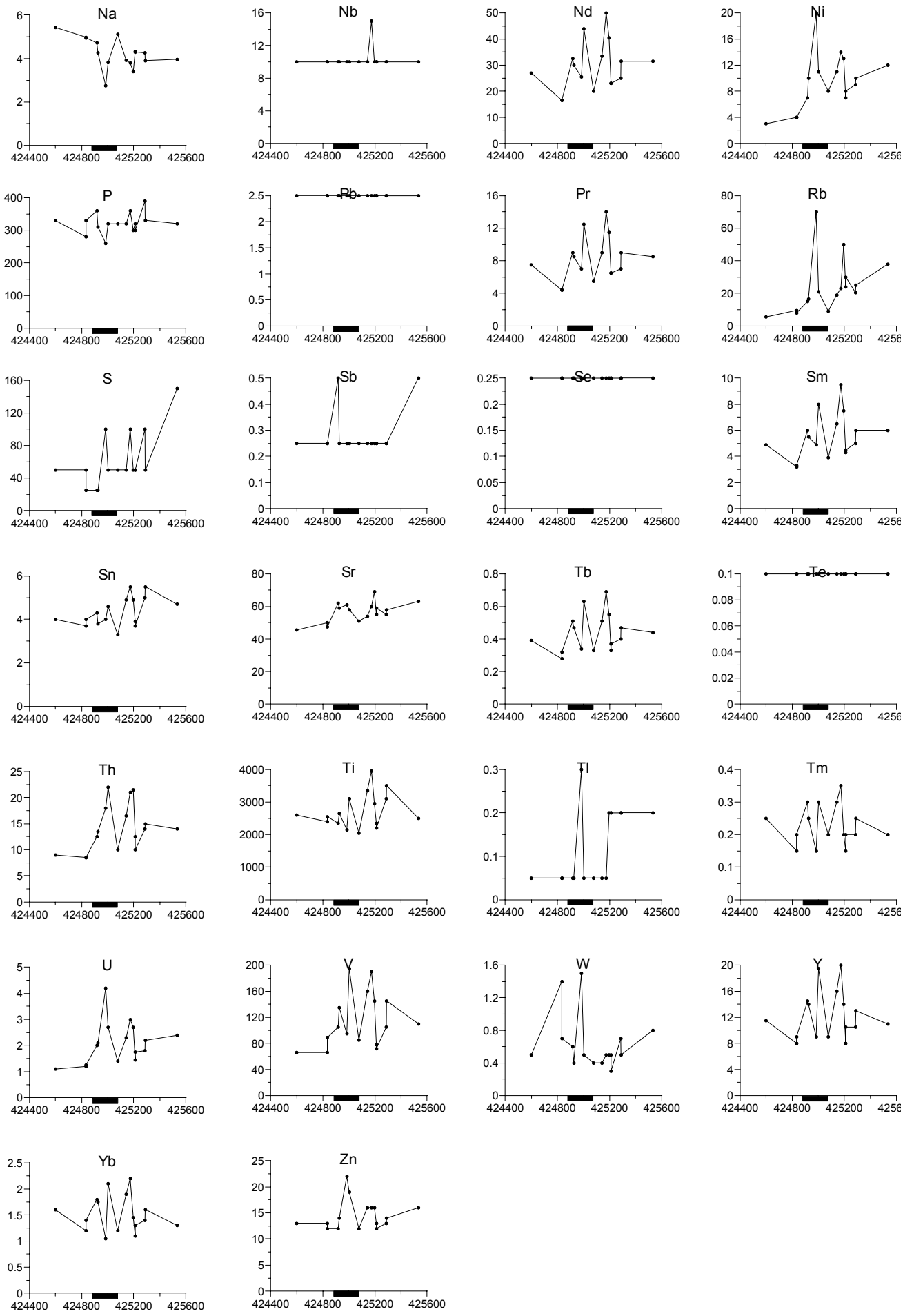


Figure A2.2b: Stream sediment samples from Faugh-a-Ballagh. Element concentrations on y axis and easting on x axis. Black rectangle indicates approximate position of mineralisation. Majors in %, minors in ppm.

Appendix 2.3
Analyses of <6 mm soil samples

Appendix 2.3

Faugh-a-Ballagh soils <6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3M	IC3M	IC3R	IC3M	IC3E
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10
Sample_no	Field_no	Northing	Easting	Error	Description																								
R447924	FABS1	6438750	424940	3.9	adj. to ironstone with abundant malachite staining	0.2	77000	1.5	2		200	0.2	2450	-0.1	76	25.5	50	1.7	1000	2.3	1	1.15	74500	24	3.9	4	0.37	0.05	16600
R447925	FABS2	6438745	424938	3.9		0.2	75700	1	6		210	0.3	3300	-0.1	77	30.5	52	1.8	900	2.5	1.1	1.2	74300	23	4.2	4	0.41	0.05	16700
R447926	FABS3	6438739	424936	3.9	adj. to ironstone	0.2	75000	1.5	6		230	0.2	3000	-0.1	105	34.5	56	2	700	3.2	1.35	1.5	88100	25	5.5	4	0.52	0.05	16700
R447927	FABS4	6438732	424933	3.9	adj. to felsic rocks	0.3	79600	4	3		250	0.2	2700	0.2	100	28.5	59	2.1	260	3.1	1.3	1.55	63900	25.5	5.5	5	0.49	0.05	18200
R447928	FABS5	6438723	424927	3.9	adj. to felsic rocks	0.2	75700	4	2		240	0.2	2900	-0.1	105	24	55	2.1	170	3.3	1.4	1.65	72800	24.5	6	5	0.53	0.05	17800
R447929	FABS6	6438707	424923	3.9	adj. to granite outcrops	0.3	76300	3.5	1		250	0.2	4350	-0.1	82	19.5	45	2.3	61	3.3	1.5	1.35	54700	23.5	5	5	0.57	0.05	20000
R447930	FABS7	6438754	424940	3.9	adj. to felsic rocks	0.2	79400	3	1		240	0.2	2550	-0.1	120	25.5	46	2	700	3	1.25	1.65	55300	25.5	6	4	0.46	0.05	19800
R447931	FABS8	6438759	424942	3.9	adj. to felsic rocks	0.2	78800	3	-1		260	0.1	2650	-0.1	90	17	42	2.2	310	2.7	1.2	1.3	48700	24.5	4.6	4	0.43	0.05	20500
R447932	FABS9	6438766	424946	3.9		0.2	76400	3	6		240	0.1	3000	-0.1	74	17	48	1.8	250	2.6	1.2	1.15	59800	22.5	4.1	4	0.44	0.05	17100
R447933	FABS10	6438779	424951	5.7	adj. to granite outcrops	0.2	81700	2.5	-1	-1	200	0.1	2850	-0.1	65	7.5	44	1.8	165	2.2	0.95	0.98	35000	22.5	3.4	5	0.35	0.05	16000
R447934	FABS11	6438792	424956	5.3	adj. to felsic outcrops with dissem. mgt	0.2	77500	2.5	-1		230	0.1	3350	-0.1	59	11.5	37	1.8	250	2.5	1.15	1	36600	22.5	3.6	4	0.43	0.05	16600
R447935	FABS12	6438657	424907	5.2	on southern bank of creek; felsic rocks	0.2	76400	2.5	-1		240	-0.1	3650	-0.1	88	13.5	54	2.2	21	2.9	1.15	1.35	42400	23	5	5	0.45	-0.05	21700
R448209	FABS13	6438832	423190	4.3	greyish brown soil, along strike from o/c of, and containing lag of, ?albitic rock	0.2	69100	3.5	2		430	0.3	10000	-0.1	64	15.5	55	1.4	54	3.6	2	1.15	59500	22.5	4.4	3	0.63	-0.05	11700
R448210	FABS14	6438406	423201	3.9	orbn soil, close to o/c of ?albitic rock; qz lag; rare fg ironstone and lithic lag	0.4	85600	5.5	5	3	300	0.3	3750	0.1	81	20.5	50	2.6	29	4.3	2.3	1.6	52000	28	6	5	0.7	-0.05	14600
R448211	FABS15	6439000	423602	3.2	greyish orbn soil; close to o/c of qz-fspr-musc+biot schist and qz-fspr-biot schist; minor qz and rare ironstone lag	0.3	80800	4	2		750	0.2	5750	-0.1	74	17	61	2.6	40	3.6	1.9	1.25	61200	24	4.8	3	0.58	0.05	22800
R448212	FABS16	6438584	423581	3.6	close to old trench; sil. rock with malachite and azurite staining, qv and (locally) mgt veinlets	0.3	78000	4.5	3		230	0.2	5900	-0.1	75	12.5	56	1.9	360	4	2.2	1.3	71600	26.5	5.5	4	0.65	0.05	8750
R448213	FABS17	6438201	423604	3.4	greyish orbn soil from colluvial plain, to the west of low hills; lag of qz-fspr-biot schist and rare, rel cg qz	0.2	71200	3	-1		480	0.2	6100	-0.1	53	9	51	1.7	18	2.8	1.5	0.96	56000	22.5	3.7	3	0.45	-0.05	14600
R448214	FABS18	6438455	423536	3.7	qz-rich rock with dissem mgt and malachite/azurite staining; between old trench and old shaft	0.2	74000	4	2		200	0.2	5950	-0.1	65	11.5	57	1.8	220	3.3	1.95	1.1	61100	24.5	4.4	4	0.56	-0.05	9500
R448215	FABS19	6438869	423560	3.9	on ridge; ironstone with mgt and qv (in shear zone), adj. to qz-fspr-biot-musc schist	0.2	69000	3.5	-1		360	0.5	4400	-0.1	47.5	19	47	2	16	2.6	1.45	0.92	109000	21	3.5	4	0.43	-0.05	17100
R448216	FABS20	6438407	423991	4.4	qz-fspr rock with dissem ?mgt; rare qz lag; on edge of alluvial flats	0.2	81000	3	-1	-1	550	0.1	8000	-0.1	69	10.5	53	2.2	13	3.5	1.8	1.25	56300	25.5	4.8	3	0.55	0.05	17000
R448217	FABS21	6438010	424004	3.8	orbn sandy soil; on southern edge of o/c of qz-fspr-biot schist; gentle-mod slope to S	0.2	78500	2.5	-1		700	0.2	7650	-0.1	70	11.5	44	2.3	15	3.4	1.65	1.25	43100	24.5	4.6	3	0.52	0.05	18900
R448218	FABS22	6437400	424400	3.5	orbn sandy soil; on western edge of o/c of qz-fspr-biot schist; rare qz lag	0.4	94300	2	2		1050	0.1	6200	-0.1	91	14	72	3.6	9	4.7	2.1	1.65	60800	29.5	6	4	0.7	0.1	30900
R448219	FABS23	6437777	424407	3.9	orbn sandy soil; on N edge of o/c of qz-fspr-biot schist and cg qz-fspr-biot rock; close to edge of alluvium and creek	0.2	73100	4	-1		490	0.1	20800	-0.1	67	12	39	2.8	13	3.5	1.75	1.15	44500	22	4.6	3	0.54	0.05	19400
R448220	FABS24	6438198	424400	4	orbn sandy soil; on N side of crag at top of hill; calc-silicate rock with amph, cut by porphyry dyke	0.3	67200	2.5	-1		100	0.1	8750	-0.1	38.5	8.5	51	0.9	10	4.9	2.8	1.2	42700	26	5	4	0.84	0.05	5450
R448221	FABS25	6438547	424422	3.9	orbn soil; on edge of aeolian patch, on o/c of mg qz-fspr-biot rock	0.2	55300	3	1		115	0.1	5600	-0.1	22	7	47	1.1	17	1.95	1.25	0.48	42100	25	2.1	3	0.36	-0.05	5600
R448222	FABS26	6438995	424397	3.9	orbn sandy soil; close to summit of hill (mod slope to N); o/c of qz-fspr-biot schist; rare qz and mgt-ironstone lag	0.2	72000	2	-1		160	0.1	3600	-0.1	77	16.5	55	1.4	17	3	1.25	1.2	76100	26	5.5	4	0.4	-0.05	11100
R448223	FABS27	6439113	424473	3.7	sandy soil; on mod N slope; cherty qz with dissem pyr	0.2	77400	2	2		190	0.2	4600	-0.1	85	23.5	50	1.6	18	3.2	1.35	1.35	50700	26.5	5.5	4	0.45	-0.05	14500
R448224	FABS28	6439365	424421	3.7	greyish yellow-bn sandy soil close to foot of steep E slope above creek; massive gt (qz, fspr, biot)	0.3	75300	2.5	-1		410	0.2	3150	-0.1	150	8	15	1.9	31	5	2.3	1.95	29400	23	9.5	6	0.73	-0.05	31400
R448225	FABS29	6439205	424066	3.4	orbn sandy soil at base of gentle W slope; qz-fspr-biot schist with biotitic schlieren	0.2	73900	2.5	-1		420	0.2	4650	-0.1	76	10	39	2.6	18	3.5	1.65	1.35	43000	23.5	5	3	0.52	0.05	20500
R448226	FABS30	6438406	424817	3.5	orbn sandy soil on mod steep S slope of ridge; mg massive qz-fspr-musc rock	0.4	77300	2	-1		260	0.1	2800	-0.1	79	8	20	1.9	16	3.1	1.3	1.05	29600	21.5	5	5	0.41	-0.05	22900
R448227	FABS31	6438005	424804	4.3	orbn soil on small plateau; mg-cg qz-fspr pegmatite with biot and rare dissem mgt; rare qz lag	0.3	70000	2.5	-1		195	0.1	5300	-0.1	54	6.5	36	1.9	11	4.3	2.4	1.1	46100	25	5	4	0.74	-0.05	16200
R448228	FABS32	6437613	424803	3.5	orbn soil on o/c of mg qz-fspr-bi rock with pegmatitic patches; on gentle S slope of small ridge	0.2	71400	2.5	-1		165	0.1	5650	-0.1	43	6.5	37	1.8	10	3.6	1.95	0.99	44200	24.5	4.5	4	0.6	0.05	12100
R448229	FABS33	6437204	424803	3.2	greyish orbn soil on gentle N slope of small hill; mg qz-fspr-biot rock with pegmatitic patches; some lag frags have calcrete coatings	0.3	71400	2	-1		650	0.1	15300	-0.1	75	9.5	45	2.7	11	3.9	2.2	1.25	48000	21.5	4.8	3	0.65	0.05	21700
R448230	FABS34	6436615	425205	3.2	greyish orbn soil, on gentle S slope down to creek; qz-fspr-biot schist	0.3	69700	2	-1		270	0.1	11000	-0.1	110	9.5	31	2.5	16	3.3	1.5	1.4	31500	22	5.5	4	0.49	-0.05	16100
R448231	FABS35	6436997	425201	3.1	orbn sandy soil on top of small hill; mg massive leucocratic qz-fspr rock, locally with cg patches; rare qz lag	0.3	78700	6	-1		350	0.2	5250	-0.1	60	7	24	2.7	12	3.5	1.8	1.2	33400	21.5	4.3	3	0.58	-0.05	23300
R448232	FABS36	6437391	425187	3.1	orbn sandy soil on top of small hill; qz-fspr pegmatite	0.3	73900	4	-1	-1	175	0.2	6250	-0.1	51	6.5	26	2.2	13	4.1	2.4	1	31300	24	4.5	4	0.71	-0.05	12500
R448233	FABS37	6437797	425198	3.3	orbn sandy soil on small plateau (on hill summit); weakly fol, mg qz-fspr-biot rock; rare qz lag	0.3	78600	3.5	-1		340	0.1	4250	-0.1	93	10	32	2.8	15	4	1.9	1.65	35600	24.5	6	4	0.62	-0.05	19600
R448234	FABS38	6438198	425203	3.2	orbn sandy soil on top of very large hill; mg qz-fspr-biot rock; rare qz lag	0.2	75800	4	-1		310	0.2	4750	-0.1	81	10.5	31	3.9	20	3.4	1.65	1.25	32100	25.5	5	4	0.51	-0.05	21800
R448235	FABS39	6438596	425200	3.9	orbn sandy soil on N side of large hill with mod slope; mg qz-fspr biot rock, locally with pegmatitic patches; very rare qz lag	0.2	74800	3.5	1		230	0.2	3750	-0.1	105	27	30	2.9	28	3.8	1.6	1.6	39600	25	6.5	5	0.54	0.05	18200
R448236	FABS40	6438997	425198	3.8	orbn sandy soil on gentle E slope of large hill, above creek; mg qz-fspr-biot rock; rare qz lag	0.3	79400	3	4		320	0.2	3500	-0.1	105	15.5	43	3.5	38	4.9	2.4	1.55	39700	27.5	6.5	5	0.74	0.05	22700
R448237	FABS41	6439400	425192	3.4	orbn sandy soil; on gentle-mod E slope of large hill; wkly fol qz-fspr-biot-musc rock; very rare qz lag	0.3	77300	3	-1		300	0.2	3900	-0.1	85	10	32	3.2	17	3.8	1.8	1.35	32400	26	5.5	5	0.58	-0.05	21500
R448238	FABS42	6439198	424805	3.3	orbn sandy soil on mod S slope of large hill; fg migmatitic qz-fspr-biot rock; very rare qz lag	0.3	79400	3	-1		240	0.2	4300	-0.1	135	12.5	26	2.6	32	4.8	2	1.6	31700	25	8	4	0.66	-0.05	19500
R448239	FABS43	6438837	424810	3.6	orbn sandy soil on gentle S slope; clos eto old working with malachite/azurite staining on mgt ironstone in qz-fspr-biot rock with mgt veinlets	0.3	65300	3.5	2		140	0.3	3250	-0.1	66	20	46	1.3	180	3.3	1.8	1.05	124000	24	4.7	4	0.52	-0.05	7300
R448240	FABS44	6438726	424937	3.6	greyish orbn soil close to base of slope; close to old working with malachite/azurite staining on mgt ironstone in qz-fspr-musc+biot schist; minor qz lag	0.3	76500	2.5	2		230	0.2	4050	-0.1	89	26	53	2	410	3.3	1.55	1.4	83000	27.5	5.5	5	0.49	0.05	16600
R448241	FABS45	6438812	424881	3.6	greyish orbn soil on mod S slope; close to old working with malachite/azurite staining on mgt ironstone (+sulphides); equigran qz-fspr rock; minor qz and common mgt lag	0.3	75400	3.5	4		240	0.2	4450	-0.1	66	18.5	38	2.6	550	3.1	1.65	1.1	57000	26	4.3	4	0.5	-0.05	14900
R448242	FABS46	6438408	425593	3.4	on gentle E slope of hill; mg qz-fspr-biot rock with pegmatitic patches and biotitic schlieren; trace qz lag	0.3	73600	2.5	1		400	0.1	3150	-0.1	73	16	31	3.6	40	3.5	1.55	1.3	31000	22	5.5	4	0.49	-0.05	31900
R448243	FABS47	6438001	425607	3.4	on gentle-mod E slope of very large hill; mg qz-fspr-biot rock with pegmatitic patches; minor qz lag	0.4	78700	5	-1		330	0.3	5550	-0.1	83	12	38	3.3	20	3.6	1.7	1.4	39700	26	5.5	4	0.56	-0.05	17000
R448244	FABS48	6437601	425607	5.4	on gentle-mod NW slope of low rounded hill; weathered, wkly fol, mg qz-fspr-biot schist; minor qz lag	0.3	74500	2.5	-1		330	0.1	3800	-0.1	67	6.5	19	2.2	18	3.1	1.45	1.05	23300	19.5	4.6	5	0.45	-0.05	30400
R448245	FABS49	6437205	425612	3.5	orbn sandy soil on gentle E slope of small rounded hill; cg qz-fspr rock and qz-fspr-biot schist; trace qz lag	0.3	77400	2.5	-1		290	0.1	4900	-0.1	83	16	54	2.7	11	3.1	1.3	1.45	51200	28	5.5	5	0.44	0.05	25000

Appendix 2.3

Faugh-a-Ballagh soils <6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R448246	FABS50	6436792	425604	4.2	orbn sandy soil on W gentle-mod slope of large hill, on E side of prominent valley; qz-fspr-biot schist and mg qz-fspr-biot rock; rare qz lag	0.3	72700	2.5	-1		420	0.1	4850	-0.1	86	12	34	3.1	17	3.2	1.35	1.35	35400	24.5	5	5	0.46	-0.05	23600
R448247	FABS51	6436989	425994	4.1	orbn sandy soil on W side at base of slope of large hill; on E side of prominent valley; contact between qz-fspr-biot schist and qz-fspr pegmatite; minor qz lag	0.3	80400	2.5	-1		390	0.1	4150	-0.1	98	15.5	40	2.8	14	3.3	1.45	1.55	41200	25.5	5.5	4	0.48	-0.05	23400
R448248	FABS52	6437384	425999	4	orbn sandy soil on gentle N slope of low rounded hill, just above creek; qz-fspr-biot schist and qz-fspr pegmatite; rare qz lag	0.3	85700	3	-1		270	0.1	4550	-0.1	89	13.5	41	3.6	23	3.2	1.4	1.35	35300	27.5	5	3	0.44	-0.05	26200
R448249	FABS53	6437799	426001	3.9	orbn sandy soil on SE gentle-mod slope of low rounded hill; qz-fspr-biot schist; minor qz lag	0.3	85700	3	-1	-1	270	0.1	4550	-0.1	120	19	56	3.5	32	3.5	1.35	1.55	44500	26	6.5	4	0.45	0.05	20800
R448250	FABS54	6438194	426000	3.9	orbn sandy soil on NE side of hill summit; finely-fol biot-rich qz-fspr-biot schist	0.3	80900	2.5	-1		550	0.1	4150	-0.1	155	14	57	5.5	23	4.2	1.6	1.9	45000	27	8	3	0.52	0.05	25700
R448251	FABS55	6438604	425994	3.7	orbn sandy soil on N mod slope of large hill; qz-fspr pegmatite	0.2	74500	3	-1		270	0.2	4100	-0.1	65	11.5	34	3.3	25	2.6	1.25	1.05	30800	20.5	3.8	3	0.41	-0.05	24000
R448252	FABS56	6438980	425972	3.8	orbn sandy soil on mod-gentle N slope of large hill; cg qz-fspr rock; very rare qz lag	0.3	72500	3	3		230	0.2	4000	-0.1	69	18	43	2.8	40	4.1	1.8	1.35	32200	23	5.5	4	0.6	0.05	22400
R448253	FABS57	6439398	425990	3.7	orbn soil on gentle slope on E edge of large hill; mg qz-fspr-biot rock, locally with qz-fspr pegmatite; very rare qz lag	0.2	71900	2.5	-1		210	0.2	3150	-0.1	54	5.5	26	2.7	12	2.6	1.15	0.99	21400	19	3.8	4	0.37	-0.05	16500
R448254	FABS58	6439203	425605	3.7	orbn sandy soil on gentle-mod SE slope of low rounded hill; leucocratic qz-fspr-biot schist with qv; qz lag rel. common	0.3	84400	3	-1		370	0.2	3300	-0.1	100	13.5	53	3.8	39	3.9	1.6	1.65	42600	26	6.5	4	0.56	0.05	23900
R448255	FABS59	6438826	425610	3.7	orbn sandy soil on mod-gentle S slope of low hill; qz-fspr pegmatite; very rare qz lag	0.2	75700	3.5	43	48	270	0.3	4100	-0.1	59	11.5	36	2.7	160	4.9	2.7	1.3	35800	22.5	5.5	5	0.79	0.05	18500
R448256	FABS60	6438685	425254	3.8	orbn sandy soil on gentle-mod N slope of hill; a few metres E of old workings (with Cu-stained mgt ironstone); qz lag (locally with boxworks)	0.2	75200	3.5	7		220	0.3	4400	-0.1	61	24	51	2.4	240	2.9	1.5	1.2	59700	23	4.2	4	0.44	0.05	16100
R448257	FABS61	6438800	426409	4.2	orbn sandy soil on mod-gentle NE slope of large hill; qz-fspr-biot schist, locally with pegmatite veins; very rare qz lag	0.2	75600	2.5	-1		410	0.1	3600	-0.1	70	9	33	2.8	17	3.2	1.4	1.15	28800	20.5	5	4	0.46	-0.05	32900
R448258	FABS62	6438348	426411	4.4	orbn sandy soil at base of slope of mod steep N slope of large hill; shd leucocratic qz-fspr-biot rock; very rare qz lag	0.2	75800	3	-1		490	0.2	5150	-0.1	105	12.5	48	5.5	25	4.1	1.75	1.75	40300	23	6.5	4	0.56	0.05	24700
R448259	FABS63	6438004	426403	3.5	orbn sandy soil on S mod slope; qz-fspr-biot schist with qz veinlets; minor qz lag	0.2	83400	3	-1		260	0.2	6000	-0.1	110	20	58	3.3	20	3.5	1.4	1.6	38600	25	6	4	0.45	0.05	20300
R448260	FABS64	6437592	426407	3.2	greyish orbn sandy soil on gentle NW slope of small hill; amphibolite; qz-epidote rock and very rare qz lag	0.2	72300	2	2	2	220	0.2	24700	-0.1	55	24	42	2.6	69	4.3	2.3	1.35	63900	21	4.7	2	0.72	0.05	13800
R448261	FABS65	6437196	426405	3	greyish orbn sandy soil on gentle NE slope of low hill; qz-fspr-biot schist with qz-fspr leucosomes; rare qz lag	0.2	74700	2.5	-1		420	0.2	5400	-0.1	115	15	50	3.7	20	3.7	1.4	1.6	43500	22.5	6.5	4	0.49	-0.05	19400
R448262	FABS66	6436806	426409	3.2	orbn sandy soil close to summit of large, high hill; rel. biot-rich qz-fspr-biot schist; minor qz lag	0.3	86000	3	-1		550	0.1	4550	-0.1	98	16	53	4.8	18	2.9	1.25	1.45	42200	25	4.8	4	0.4	0.05	29600
R448263	FABS67	6436996	426796	3.4	orbn sandy soil on mod N slope of large hill; rel. biot-rich qz-fspr-biot schist; very rare qz lag	0.2	79100	5	1		420	0.3	3550	-0.1	79	18	48	5.5	23	3.4	1.45	1.6	38600	23.5	5.5	4	0.48	0.05	24200
R448264	FABS68	6437392	426791	3.3	orbn sandy soil on steep S slope of large hill; rel. biot-rich qz-fspr-biot schist with cg qz-fspr leucosomes	0.2	72500	2.5	-1		450	0.2	5750	-0.1	69	10	31	4.1	16	3.6	1.85	1.3	29500	22.5	4.6	3	0.56	-0.05	23900
R448265	FABS69	6437784	426800	3.9	orbn sandy soil on mod N slope of large hill, on edge of valley; biot-rich qz-fspr-biot schist; very rare qz lag	0.2	78700	3	-1		400	0.2	4050	-0.1	92	12	44	5.5	25	3.8	1.65	1.55	40900	24	6	4	0.56	0.05	26800
R448266	FABS70	6438201	426802	4	orbn sandy soil on mod-gentle E slope of large hill; biot-rich qz-fspr-biot schist, locally with qz-fspr leucosomes; rare qz lag	0.3	78300	3.5	-1		600	0.1	4800	-0.1	86	11	39	3.6	36	3	1.25	1.5	40900	24	4.9	3	0.42	0.05	25700
R448267	FABS71	6438600	426831	3.8	orbn sandy soil on gentle N slope of large hill, close to base of slope; qz-fspr+musc pegmatite	0.2	69000	3	-1		1650	0.2	3650	-0.1	69	10	34	3.9	27	2.8	1.4	1.65	35900	18.5	4.1	3	0.43	-0.05	25200
R448268	FABS72	6439410	426795	3.9	orbn soil at base of mod S slope of large hill; cg qz-fspr-biot schist with qz-fspr pegmatite and qz veins; minor qz lag	0.3	83700	2.5	-1		460	0.2	3650	-0.1	115	13.5	51	7	33	4.2	1.6	2.1	42800	25.5	7.5	4	0.58	0.05	28400
R448269	FABS73	6439812	426786	3.4	orbn sandy soil on gentle NE slope of large hill; cg qz-fspr rock and rel. cg qz-fspr-biot schist; minor qz lag	0.3	79700	4	1		390	0.2	4200	-0.1	66	10.5	36	3.6	23	3.8	1.9	1.45	31200	23.5	5	4	0.58	0.05	26800
R448270	FABS74	6439628	426387	3.2	orbn sandy soil on gentle SW slope of large hill; cg qz-fspr-biot rock, locally with cg leucosomes of qz-fspr	0.2	75300	3.5	2		390	0.2	5600	-0.1	74	11.5	32	3.9	32	4.1	1.9	1.6	32200	21	6	3	0.62	0.05	23800
R448271	FABS75	6439183	426390	3.1	orbn sandy soil on gentle N slope of small hill; rel. cg, biot-rich qz-fspr-biot schist, locally with biotitic schlieren	0.2	74800	3	-1		220	0.2	3300	-0.1	76	7	28	3.5	13	3	1.3	1.25	26000	22	5	4	0.42	0.05	17600
R448272	FABS76	6438406	427998	6	orbn sandy soil on summit of low hill; qz-fspr rock with qv; rare qz lag	0.4	82700	5	-1		380	0.5	4000	-0.1	100	15	47	3	12	3.4	1.35	2	47600	24.5	7	4	0.43	0.05	18700
R448273	FABS77	6438003	428002	4.5	orbn sandy soil close to top of small rounded hill; cg qz-fspr rock and rel. leucocratic qz-fspr-biot schist; rare qz lag	0.2	74300	3.5	-1		190	0.2	4200	-0.1	57	10	49	3.4	9	2.5	0.9	1.05	32200	23.5	4.4	4	0.31	-0.05	18200
R448274	FABS78	6437504	427994	4.5	orbn sandy soil close to gentle base of slope of small hill; cd qz-fspr rock, locally with qz; rel. common qz lag	0.2	66300	3	-1		280	0.2	9600	-0.1	69	9	28	3	19	3.6	1.75	1.2	33700	18.5	5	4	0.54	-0.05	17200
R448275	FABS79	6438449	427234	3.2	orbn sandy soil on gentle S slope of small hill; qz-fspr-biot schist with biotitic schlieren; very rare qz lag	0.3	75700	3.5	1		420	0.2	5200	-0.1	120	14	47	5.5	40	4.4	1.9	2	44700	24	8	3	0.6	0.05	25200
R448276	FABS80	6437950	427191	3.1	orbn sandy soil on N slope of small hill, close to base of slope; cg qz-fspr rock; very rare qz lag	0.2	77800	4	1		460	0.2	6350	-0.1	87	12.5	36	5	33	3.5	1.55	1.6	35800	21.5	6	3	0.52	0.05	24400
R448277	FABS81	6437599	427205	3.5	greyish orbn soil on mod N slope; amphibolite	0.2	68400	5.5	1		130	0.2	50400	0.2	30	40.5	74	2.5	140	4.6	2.8	1.4	84700	21.5	4.5	2	0.85	0.1	8500
R448278	FABS82	6437200	427203	3.4	orbn sandy soil on mod NE slope of large hill; vcg qz-fspr-biot schist; rare qz lag	0.3	77700	5.5	-1	-1	360	0.2	2850	-0.1	84	16	47	4.5	38	3.9	1.9	1.5	42200	25.5	5.5	4	0.56	0.05	26500
R448279	FABS83	6437394	427592	3.5	orbn sandy soil on mod S slope of large hill; cg qz-fspr-biot rock with qz veinlets; minor qz, amphibolite and quartz-epidote rock lag	0.3	73000	4	-1		1250	0.4	10900	-0.1	88	15.5	34	4	53	4.7	2.5	1.85	45600	23.5	5.5	4	0.82	0.1	24500
R448280	FABS84	6437799	425597	3.2	orbn sandy soil on mod E slope of large hill; cg qz-fspr rock and qz-fspr-biot schist; minor qz lag	0.2	71900	3.5	-1		280	0.2	2500	-0.1	85	9	32	4.2	18	3	1.35	1.4	35100	22	4.9	4	0.44	0.05	27200
R448281	FABS85	6438110	427580	3.6	orbn sandy soil on flat ground at foot of small hill, close to edge of alluvium; cg qz-fspr rock locally with qz veinlets; minor qz lag	0.3	71700	5	-1		310	0.2	4150	-0.1	79	12	39	4.8	27	3.6	1.85	1.5	40200	23.5	5	3	0.55	0.05	20800
R448282	FABS86	6439608	427201	3.9	orbn sandy soil on slight rise above alluvial flats; qz-fspr-biot schist, locally with qz veinlets; rare qz lag	0.2	74900	3.5	-1		185	0.2	6000	-0.1	125	21.5	30	3.5	35	3.5	1.2	1.9	33700	23.5	7	3	0.4	0.05	14200
R448283	FABS87	6439996	427199	4.1	orbn sandy soil on mod-gentle E slope of large hill; cg qz-fspr-biot rock and qz-fspr-biot schist, locally with biot schlieren; rare qz lag	0.3	77600	3.5	-1		320	0.2	4200	-0.1	97	10.5	31	4.6	18	3.8	1.6	1.55	31000	25	6	4	0.54	0.05	24900
R448284	FABS88	6439057	424096	4.6	orbn sandy soil on mod-gentle W slope of large hill; mg massive qz-fspr-musc rock with mgt veining	0.2	76800	3.5	-1		240	0.2	3050	-0.1	90	11.5	37	2.5	18	4	2	1.55	36100	24.5	5.5	6	0.6	-0.05	17100
R448285	FABS89	6439199	424200	3.5	orbn sandy soil on mod W slope of large hill; wkly shd cg qz-fspr-biot rock; rare mgt and rel. common qz lag	0.3	78000	2.5	-1		280	0.2	3450	-0.1	94	25	64	2.2	12	3.1	1.4	1.55	43700	29	5.5	5	0.46	0.1	18300
R448286	FABS90	6439105	424204	3.5	orbn sandy soil on top of small rise; wkly shd mg-cg qz-fspr-biot rock; rare qz lag	0.2	80200	4	-1		390	0.2	7600	-0.1	105	21.5	49	3.1	23	3.8	1.7	1.65	40400	28.5	6.5	4	0.54	0.05	22700
R448287	FABS91	6439005	424208	3.5	orbn sandy soil on mod S slope; mg massive qz-fspr-biot rock; very rare qz lag	0.2	78300	3	-1		270	0.2	5200	-0.1	110	19	42	2.8	17	4.2	1.9	1.9	38200	27	7	4	0.61	-0.05	18200
R448288	FABS92	6438895	424221	3.8	orbn sandy soil at foot of slope; mgt vein and qz-fspr-biot rock	0.2	63100	4	-1		190	0.3	5350	-0.1	110	26.5	48	1.8	12	3.7	1.75	1.55	87200	21	6	3	0.53	-0.05	8700
R448289	FABS93	6438952	424297	4.1	orbn sandy soil on mod SW slope; mg qz-fspr-mica rock; minor mgt and very rare qz lag	0.2	76200	2.5	-1		160	0.2	4000	-0.1	74	17	66	1.9	15	2.7	1.2	1.35	62900	27	5	4	0.39	-0.05	12700

Appendix 2.3

Faugh-a-Ballagh soils <6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R448290	FABS94	6439047	424301	4	orbn sandy soil on gentle-mod E slope of small rise; wkly fol qz-fspr-biot rock, locally with cg qz-fspr veins	0.3	80300	3.5	-1		260	0.2	6000	-0.1	100	20.5	49	2.6	20	3.8	1.65	1.75	40200	26	6.5	5	0.55	-0.05	18000
R448291	FABS95	6439150	424297	4	orbn sandy soil on gentle-mod NE slope in small area rel. clear of vegetation; mg-cg qz-fspr+biot rock; minor mgt and very rare qz lag	0.2	74800	2.5	-1		200	0.2	6950	-0.1	63	13.5	42	1.9	10	3.1	1.4	1.35	52500	25.5	4.7	6	0.45	0.05	13800
R448292	FABS96	6439198	424397	3.9	orbn sandy soil on mod NE slope, just above narrow creek; shear zone (sil. shd); lag of sil. shd rock, qz-fspr-musc schist, minor qz and rare mgt	0.1	55800	2.5	-1		185	0.3	4000	-0.1	64	41	40	1.6	11	3.4	1.65	1.25	92900	20	4.9	3	0.52	0.05	12100
R448293	FABS97	6439103	424395	3.9	orbn sandy soil on steep NW slope of large hill; cg qz-fspr-biot schist with minor qz-fspr leucosomes; rare qz and very rare mgt lag	0.2	77600	2.5	-1		230	0.2	4450	-0.1	77	17	43	2	13	3.1	1.35	1.4	49300	29.5	5	4	0.44	0.05	17100
R448294	FABS98	6438902	424405	3.8	orbn soil on top of ridge on S downhill side; mgt ironstone; very rare qz lag	0.2	52200	3.5	2		160	0.7	5300	-0.1	51	20.5	38	1.6	13	3.2	1.65	1	128000	17.5	4.4	3	0.5	-0.05	7700
R448295	FABS99	6438798	424409	3.8	orbn sandy soil at foot of slope (SW side of hill, just above creek); weathered fg sil. rock (?shear zone)	0.2	63300	3	-1		160	0.3	6850	-0.1	110	20	56	1.7	18	3.7	1	1.25	94300	19	5.5	4	0.56	-0.05	8250
R448296	FABS100	6438714	424399	3.8	orbn sandy soil on gentle slope to S (on edge of alluvium); fg albitic rock with dissem mgt; minor qz and mgt lag	0.2	68400	2.5	7	8	140	0.2	4550	-0.1	97	17	53	1.4	175	4.3	1.3	1.5	92100	23	6.5	4	0.73	-0.05	6400
R448297	FABS101	6438751	424494	3.5	orbn sandy soil at foot of S slope of large hill; fg qz-fspr-biot rock	0.3	65300	3	1		145	0.2	5300	-0.1	82	20.5	39	1.8	44	5.5	1.65	1.45	73000	22.5	6.5	6	0.93	-0.05	7850
R448298	FABS102	6438852	424496	3.4	orbn sandy soil on mod SW slope of large hill; fg qz-fspr-biot rock with qz veinlets; minor qz and cg mgt lag	0.2	58600	2.5	1		115	0.2	17800	-0.1	76	140	32	1.5	22	7.5	1.95	1.6	173000	22.5	8	5	1.2	-0.05	7100
R448299	FABS103	6438947	424498	3.7	orbn sandy soil on gentle-mod N slope; mg qz-fspr rock with dissem mgt and musc on foliation planes; rare mgt veinlets; very rare qz lag	0.2	74800	3.5	-1	2	150	0.1	5200	-0.1	120	28.5	67	1.8	9	4.2	1.05	1.5	81800	24	6.5	4	0.64	-0.05	10300
R448300	FABS104	6439046	424500	4.3	orbn sandy soil on steep N slope; cg qz-fspr-biot schist, locally with biotitic schlieren and qz-fspr leucosomes; very rare qz lag	0.3	81100	2.5	-1		260	0.1	4900	-0.1	115	26.5	67	2	18	3.7	0.8	1.6	54800	26	6.5	5	0.51	0.05	18500
R448301	FABS105	6439155	424503	3.7	orbn sandy soil on mod SW slope of large hill; fg sil rock, locally shd; minor qz lag	0.2	52700	3	-1		190	0.1	5000	-0.1	59	13.5	34	2.3	14	2.5	0.75	0.93	25900	14.5	3.7	3	0.42	-0.05	12200
R448302	FABS106	6439104	424601	3.6	orbn sandy soil on SE mod slope of large hill; mg qz-fspr+mica rock with mgt veinlets; rare qz lag	0.2	73400	3	-1		240	0.2	5800	-0.1	62	39	54	2	12	3.5	1	1.15	98600	24.5	4.8	4	0.6	0.05	18300
R448303	FABS107	6438996	424602	3.8	orbn sandy soil on mod N slope of large hill; qz-fspr-biot schist with biotitic schlieren and qz-fspr leucosomes; rare qz and minor cg mgt lag	0.2	73000	2	-1		175	-0.1	3950	-0.1	92	23.5	70	1.5	11	3.5	0.8	1.45	98200	22	6	4	0.51	-0.05	12700
R448304	FABS108	6438904	424605	4.2	orbn sandy soil on gentle-mod N slope of large hill; mg qz-fspr-musc rock with disseminations/veinlets of mgt; very rare qz lag	0.2	69000	2.5	-1		165	0.2	3100	-0.1	89	23	46	1.5	10	3.6	0.9	1.4	117000	21	6	4	0.55	-0.05	10200
R448305	FABS109	6438804	424603	4.5	orbn soil on S edge of ridge crest; fg sil rock and mg qz-fspr rock with mgt veins/disseminations; specular hem on joints	0.2	73700	3	-1		270	0.2	2950	-0.1	31	36	19	1.5	9	1.8	0.5	0.68	112000	19	2.4	5	0.3	-0.05	18300
R448306	FABS110	6438701	424601	4.5	orbn sandy soil on plateau on S side of hill; fg qz-fspr rock with dissem mgt; on edge of old digging; minor mgt and very rare qz lag	0.2	58600	2	1		85	0.2	4700	-0.1	38.5	17	51	1	99	2.7	0.85	0.76	91100	22.5	3.2	4	0.47	-0.05	5050
R448307	FABS111	6438687	424563	4.4	orbn sandy soil on plateau on side of hill; fg sil rock with dissem mgt and locally with qv; minor qz lag	0.2	70500	2	3		185	0.1	5900	-0.1	80	8.5	31	1.6	280	4.5	1.3	1.4	45300	21.5	6	5	0.76	0.05	12900
R448308	FABS112	6438746	424700	3.2	orbn sandy soil on steep S slope of large hill; fg sil. schist with calcrete coatings; common cg mgt and fg qz lag	0.2	50900	2.5	2	3	160	0.6	6450	-0.1	48.5	69	52	1.6	78	4.4	1.1	1.4	197000	20.5	6	4	0.69	-0.05	9900
R448309	FABS113	6438850	424698	3.4	orbn sandy soil on gentle SE slope of large hill; fg sil. rock (+mica) with bands of dissem mgt; very rare qz lag	0.2	62400	3.5	-1		95	0.1	3050	-0.1	58	21.5	48	1.3	26	3.7	1	1.2	97900	23.5	5	5	0.59	-0.05	6100
R448310	FABS114	6438944	424696	3.4	orbn sandy soil on gentle NE slope of large hill; leucocratic qz-fspr-musc rock with dissem mgt; minor mgt and very rare qz lag	0.2	71200	3	-1		135	0.1	3400	-0.1	83	17.5	59	1.5	23	3.3	0.85	1.2	94100	24.5	5	4	0.5	-0.05	9500
R448311	FABS115	6439046	424695	3.3	orbn sandy soil on mod NW slope of large hill; mg qz-fspr-biot rock (rarely with bioitic schlieren) and cg qz-fspr rock; mg mgt and rare qz lag	0.3	79200	2.5	2		210	0.1	4000	-0.1	105	17	76	1.8	17	3.1	0.7	1.55	68100	25	6	4	0.4	-0.05	16000
R448312	FABS116	6439106	424803	3.5	orbn sandy soil on mod SW slope of large hill; mg qz-fspr-biot; rare qz lag	0.2	89100	4.5	3		330	0.1	4800	-0.1	135	11.5	43	2.8	19	4.6	1.15	1.65	35700	28	7	5	0.68	0.05	25900
R448313	FABS117	6439002	424799	3.8	orbn sandy soil on mod-gentle NE slope of large hill; fg sil. rock with dissem mgt, cg qz-fspr rock and minor to rare qz lag	0.2	73100	2.5	-1		750	0.1	4000	-0.1	81	10	51	1.9	21	3.2	0.8	1.4	71100	20.5	4.7	4	0.5	0.05	18000
R448314	FABS118	6438903	424799	3.6	orbn sandy soil on gentle SE slope, near crest of of hill; wkly shd qz-fspr-musc rock with biotitic schlieren; minor mgt and very rare qz lag	0.2	67200	2.5	1		360	0.1	4100	-0.1	66	12.5	45	2	120	3.1	0.9	1.2	59100	20	4.2	4	0.5	0.05	14500
R448315	FABS119	6438801	424803	3.8	orbn sandy soil on gentle SE slope of large hill; qz-fspr-biot rock with biotitic schlieren; minor mgt and rare qz lag	0.2	72300	3.5	1		155	0.1	3450	-0.1	67	21	57	1.6	38	3	0.8	1.15	107000	22.5	4.5	4	0.45	-0.05	10100
R448316	FABS120	6438700	424798	3.4	orbn sandy soil on mod S slope of large hill; fg sil. rock with dissem biot; rel. common mgt and rare qz lag	0.3	64700	3	5		135	0.3	4800	-0.1	100	22	52	1.6	38	5.5	1.4	1.7	106000	23	7.5	5	0.81	-0.05	7850
R448317	FABS121	6438611	424800	3.4	orbn sandy soil on mod-gentle SE slope, just above creek; fg sil. rock with dissem mgt; locally with qv	0.2	64600	2.5	-1		150	-0.1	5800	-0.1	83	9.5	42	1.6	23	3.8	1.1	1.3	53700	20	5.5	4	0.63	-0.05	9150
R448318	FABS122	6438653	424702	3.9	orbn sandy soil on mod-gentle S slope of large hill; mg qz-fspr-biot rock; rel. common mgt and rare qz lag	0.2	72700	2.5	-1		140	-0.1	6250	-0.1	98	12.5	52	1.7	48	6.5	1.75	1.7	66300	24.5	7.5	6	1.05	0.05	10200
R448319	FABS123	6438746	424898	3.9	orbn sandy soil on mod S slope of large hill; fg sil. rock with dissem biot; rare mgt and qz lag	0.2	78100	3	10	6	220	0.1	3100	-0.1	115	29.5	54	2.4	320	3.1	0.75	1.55	72300	25.5	5.5	4	0.46	0.05	16800
R448320	FABS124	6438847	424896	3.7	orbn sandy soil on mod S slope of large hill; cg qz-fspr-biot rock with biotitic schlieren; ~20m SE of old workings	0.2	70700	3.5	-1		250	0.2	4200	-0.1	73	12.5	42	2.5	220	3	0.85	1.1	55800	21.5	4.2	4	0.52	0.05	14600
R448321	FABS125	6438948	424897	3.8	orbn sandy soil on mod-gentle SE slope of large hill; fg sil. rock with dissem mica with cd qz-fspr veining; rare mgt and qz lag	0.2	80700	3	-1		260	0.1	4200	-0.1	94	13	43	2.4	29	3.9	1.1	1.45	34200	23	6	5	0.61	0.05	17700
R448322	FABS126	6439046	424887	3.9	orbn sandy soil at foot of mod SE slope; mg-cg qz-fspr rock with biotitic schlieren; locally with thin qv	0.2	72000	3	-1		300	0.1	3650	-0.1	93	13	36	2.1	16	2.8	0.75	1.4	32600	23.5	5	6	0.43	0.05	19500
R448323	FABS127	6438899	425002	3.2	orbn sandy soil on crest of low rise on SE side of large hill; qz-fspr rock with biotitic schlieren	0.2	77700	3	-1		290	0.1	3450	-0.1	62	8.5	41	3	35	2.4	0.7	0.9	33600	24.5	3.4	4	0.39	0.05	18800
R448324	FABS128	6438799	424999	3.2	orbn sandy soil on mod S slope of large hill; cg qz-fspr-musc rock with mgt veinlets and disseminations; minor qz lag	0.3	77800	2.5	-1	-1	210	-0.1	4250	-0.1	91	12	34	2.2	95	2.7	0.8	1.2	34400	23	4.3	5	0.42	-0.05	14600
R448325	FABS129	6438711	424997	3.2	orbn sandy soil on mod N slope of large hill; gf sil. rock with dissem mgt; local malachite staining assoc with mgt veining; rare qz and very rare mgt lag	0.2	80300	2.5	3		250	0.2	14400	-0.1	96	21	45	2.7	150	4	1.35	1.4	46900	26	5.5	4	0.72	0.05	18800

Appendix 2.3

Faugh-a-Ballagh soils <6mm

	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3M	IC3R	IC3E	IC3M	IC3E	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3R	IC3E	IC3M	IC3M	IC3M	IC3R	IC3E
	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																															
R447924	43.5	0.16	4350	180	1.1	27600	10	35	19	370	5	9.5	89	150	-0.5	0.5	6.5	6	62	0.4	-0.2	23.5	3100	0.5	0.15	4.3	86	2.3	11	1.1	26
R447925	45.5	0.19	5000	210	1.1	26400	10	35	21	360	-5	9.5	90	200	-0.5	0.5	6.5	6	69	0.43	-0.2	21.5	3300	0.5	0.2	4.6	90	2.1	12	1.25	29
R447926	60	0.22	5250	250	1.2	22700	10	47	27	360	5	12.5	95	350	-0.5	0.5	8.5	6	72	0.57	-0.2	26.5	3450	0.5	0.2	5	94	2.1	15.5	1.45	31
R447927	59	0.22	6000	230	1.1	24500	10	47	24	310	-5	12.5	105	150	-0.5	0.5	9	6	73	0.56	-0.2	25.5	3750	0.6	0.2	3.5	96	4.3	15	1.4	31
R447928	62	0.22	6150	260	1	24400	10	51	24	300	-5	13.5	100	150	-0.5	-0.5	9.5	5.5	63	0.6	-0.2	24	4050	0.6	0.2	3.5	100	2.5	16	1.5	33
R447929	48	0.25	6850	300	0.9	24700	10	40	21	300	-5	10.5	110	150	-0.5	-0.5	8	5.5	70	0.55	-0.2	22.5	3750	0.7	0.25	3.2	79	2.1	17	1.65	31
R447930	68	0.19	5450	220	1	26600	10	52	22	380	10	14	110	150	-0.5	-0.5	9.5	6	65	0.56	-0.2	25	3350	0.7	0.2	4.6	83	2.4	13.5	1.3	28
R447931	51	0.2	5450	250	1	24900	15	39.5	21	370	5	10.5	115	150	-0.5	-0.5	7.5	6	69	0.48	-0.2	22	3650	0.7	0.2	4.8	79	2.5	13	1.35	33
R447932	42.5	0.2	5200	230	1	27300	10	33.5	19	330	5	9	89	150	-0.5	-0.5	6.5	5	68	0.44	-0.2	21	3150	0.6	0.2	5.5	77	2.6	13	1.35	31
R447933	36.5	0.17	5550	210	0.9	30200	10	28.5	16	300	-5	7.5	81	150	-0.5	-0.5	5.5	4.5	72	0.38	-0.2	18	3200	0.5	0.15	5.5	66	3.7	10.5	1.1	28
R447934	33.5	0.21	5800	240	0.8	24300	10	28	17	280	-5	7.5	91	200	-0.5	-0.5	5.5	4.7	68	0.4	-0.2	18.5	3350	0.6	0.2	3	63	2.5	13	1.35	32
R447935	51	0.19	6300	250	0.5	29200	10	41.5	22	350	5	11	105	100	-0.5	-0.5	8	6.5	65	0.52	-0.2	22	3500	0.8	0.2	2.5	79	1.6	12.5	1.25	32
R448209	38.5	0.3	4950	460	0.8	32100	10	30.5	15	310	15	8.5	48	150	-0.5	-0.5	6.5	2.6	100	0.52	-0.2	12.5	3600	0.4	0.3	2.1	92	0.8	24.5	2	37
R448210	48.5	0.34	6300	320	1.6	26800	10	44	25	290	20	11.5	73	150	-0.5	-0.5	9	3.6	87	0.69	-0.2	18.5	4050	0.5	0.35	1.95	105	0.9	25.5	2.2	38
R448211	43	0.26	7850	470	1.8	16000	10	35	25	280	20	9.5	115	1000	-0.5	-0.5	7	3.1	120	0.52	-0.2	16	4550	0.7	0.25	2	99	1.1	22	1.7	47
R448212	44	0.32	5600	350	0.8	34000	10	38.5	20	250	15	10	39.5	100	-0.5	-0.5	7.5	3.9	76	0.57	-0.2	16	4400	0.3	0.3	1.85	105	0.7	24.5	2	34
R448213	32.5	0.23	4100	500	0.6	26800	5	27.5	16	270	15	7.5	56	100	-0.5	-0.5	5.5	3	99	0.42	-0.2	13	3700	0.4	0.2	1.25	90	0.5	16.5	1.5	34
R448214	37.5	0.28	5400	340	0.7	33700	10	33	18	280	20	9	36	150	-0.5	-0.5	6.5	3.3	71	0.48	-0.2	14	4150	0.3	0.3	1.9	92	0.6	20	1.85	36
R448215	29	0.23	5000	260	4.2	20600	5	25	15	600	20	6.5	66	3000	-0.5	0.5	5	4.1	90	0.39	0.2	18.5	3450	0.4	0.2	2.1	110	1.9	16.5	1.4	41
R448216	41	0.25	7100	500	0.6	25500	10	34.5	23	300	15	9	82	100	-0.5	-0.5	7	4.1	115	0.53	-0.2	16	4650	0.5	0.25	1.5	91	0.5	21.5	1.65	33
R448217	40	0.23	6500	600	0.6	24100	10	33.5	20	290	20	9	93	150	-0.5	-0.5	7	4	125	0.52	-0.2	15.5	4100	0.7	0.25	1.55	71	0.3	20	1.45	35
R448218	57	0.26	9100	450	0.5	14700	10	45	29	280	15	12.5	160	50	-0.5	-0.5	9	7	120	0.68	-0.2	23.5	5950	1.1	0.25	1.9	90	0.5	25	1.7	41
R448219	40.5	0.24	9000	650	0.4	23500	5	33	19	360	15	9	105	200	-0.5	-0.5	6.5	3.5	150	0.51	-0.2	15	3600	3.5	0.25	1.4	66	0.1	20.5	1.55	43
R448220	19.5	0.41	6750	320	0.5	50200	10	29.5	13	480	5	6.5	9	100	-0.5	-0.5	7	4.7	49	0.66	-0.2	11.5	4000	0.2	0.4	1.05	75	0.2	29	2.7	22
R448221	13	0.2	3350	330	0.7	45400	5	13	13	240	10	3.4	7.5	50	-0.5	-0.5	2.8	3.5	49	0.25	-0.2	8.5	3450	0.2	0.2	0.72	75	0.3	11.5	1.3	24
R448222	45	0.16	4750	230	2.4	35000	-5	40	22	360	10	10.5	35	250	-0.5	-0.5	8	3.5	47	0.53	-0.2	15.5	3500	0.3	0.15	2.4	125	0.7	13	1	29
R448223	50	0.19	7100	290	1.5	31800	-5	42.5	26	390	10	11.5	64	650	-0.5	-0.5	8.5	3.2	64	0.56	-0.2	18.5	4350	0.4	0.15	2.4	91	0.8	15	1.15	32
R448224	90	0.3	4600	250	0.8	20000	5	74	10	350	20	19.5	125	100	-0.5	-0.5	15	3.2	86	0.93	-0.2	54	3400	0.8	0.3	4.6	48	0.7	25.5	1.95	36
R448225	53	0.23	9600	440	0.7	14700	-5	41	24	390	20	11	115	150	-0.5	-0.5	8	3.2	77	0.56	-0.2	19	4300	0.7	0.2	2.1	67	0.1	18.5	1.5	52
R448226	46	0.2	4050	180	1.3	26800	5	35.5	14	270	15	9.5	100	50	-0.5	-0.5	8	3.7	57	0.53	-0.2	32.5	3000	0.6	0.2	3.5	55	0.4	13.5	1.2	24
R448227	34	0.34	4000	310	0.5	32000	10	32	10	440	15	8	47.5	100	-0.5	-0.5	7	3.7	60	0.61	-0.2	14	3350	0.4	0.35	1.75	83	0.5	24.5	2.3	29
R448228	27.5	0.29	4900	320	0.6	36100	5	27.5	12	370	10	7	36	50	-0.5	-0.5	6	3.6	55	0.49	-0.2	13	3450	0.4	0.3	2	75	0.4	19.5	1.9	29
R448229	46	0.32	7400	460	0.4	21700	5	34.5	19	300	15	9.5	99	150	-0.5	-0.5	7	6.5	140	0.57	-0.2	20	4250	0.7	0.35	1.55	72	0.4	24.5	2	43
R448230	69	0.2	8700	270	0.6	20600	5	48	15	600	15	13	83	300	-0.5	-0.5	9	3.2	145	0.56	-0.2	20.5	3650	0.5	0.2	1.75	59	0.6	16.5	1.25	43
R448231	38.5	0.3	4250	240	0.7	20200	5	28.5	12	310	20	7.5	99	100	-0.5	-0.5	6	4.4	94	0.5	-0.2	18.5	3050	0.6	0.3	1.65	63	1.4	21	1.9	35
R448232	33.5	0.34	4400	320	0.7	30400	10	28.5	11	350	20	7	45.5	100	-0.5	-0.5	6	3.8	69	0.54	-0.2	11.5	3350	0.4	0.35	1.5	61	0.7	24	2.2	36
R448233	73	0.26	5450	300	0.8	23200	5	48	19	290	15	13	90	100	-0.5	-0.5	9	4.3	130	0.63	-0.2	18.5	3700	0.6	0.25	1.75	76	0.6	22	1.75	37
R448234	50	0.24	6650	300	0.7	15000	10	39.5	20	360	20	10	115	200	-0.5	-0.5	8	4.8	83	0.53	-0.2	20	3900	0.7	0.25	2.3	69	0.8	17.5	1.45	46
R448235	64	0.23	5050	220	0.9	22600	-5	47.5	19	350	15	12.5	85	150	-0.5	-0.5	10	5	71	0.65	-0.2	25	3600	0.6	0.25	2.6	71	0.8	17.5	1.45	39
R448236	60	0.38	8050	290	0.7	19200	10	45	22	310	15	11.5	140	150	-0.5	-0.5	9	6	75	0.72	-0.2	21.5	4500	0.8	0.3	2.8	82	0.6	27	2.3	43
R448237	57	0.25	5950	270	0.5	17900	10	41.5	18	340	15	11	125	150	-0.5	-0.5	8.5	5.5	83	0.59	-0.2	22	4200	0.8	0.25	2.5	67	0.6	20.5	1.65	46
R448238	82	0.25	5050	230	1.9	21600	5	60	17	340	15	16	120	200	-0.5	-0.5	12	4.3	78	0.82	-0.2	37	3750	0.7	0.25	4.1	69	0.8	22	1.65	50
R448239	38.5	0.25	2900	190	1.8	29800	5	32	20	300	15	8.5	33	200	-0.5	-0.5	6.5	3.4	53	0.51	-0.2	17.5	2800	0.2	0.25	3.2	105	1	17	1.7	30
R448240	55	0.25	5800	270	1.3	24100	-5	43	25	300	15	11.5	89	150	-0.5	-0.5	8.5	5	73	0.54	-0.2	24	3850	0.5	0.2	4.5	100	1.3	16.5	1.55	35
R448241	37.5	0.24	6050	310	1.4	22300	5	29	22	330	15	7.5	77	150	-0.5	-0.5	6	4.2	85	0.46	-0.2	19	3650	0.4	0.25	3.3	80	1.5	17.5	1.65	42
R448242	47	0.2	5850	220	0.5	8250	5	39.5	18	260	15	10.5	160	150	-0.5	-0.5	8	3.3	65	0.56	-0.2	18	3650	1	0.2	1.9	62	0.3	17	1.3	32
R448243	57	0.24	6050	320	0.9	19400	-5	42	22	290	20	11.5	87	150	-0.5	-0.5	8	3.4	110	0.59	-0.2	21.5	4100	0.7	0.25	2.1	84	0.9	18.5	1.55	41
R448244	38.5	0.21	3100	210	0.8	19700	-5	30	11	260	25	8	120	100	-0.5	-0.5	6.5	2.8	72	0.5	-0.2	26	2850	0.9	0.2	3	46	0.6	15.5	1.35	35
R448245	58	0.19	6650	230	0.6	21200	5	44	25	290	15	11.5	115	100	-0.5	-0.5	9	7.5	86	0.55	-0.2	23	4000	0.8	0.15	2	94	0.9	14	1.2	34

Appendix 2.3

Faugh-a-Ballagh soils <6mm

	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R448246	52	0.2	6500	250	0.4	13100	10	38.5	18	290	20	10.5	120	100	-0.5	-0.5	7.5	3.8	110	0.55	-0.2	20	4200	0.9	0.2	2.9	69	0.4	14.5	1.2	48
R448247	61	0.2	8450	260	7.5	15000	5	46	24	270	15	12	125	150	-0.5	-0.5	9	13.5	94	0.56	-0.2	22	4500	0.8	0.2	4.5	83	0.7	14.5	1.2	36
R448248	60	0.18	8500	240	1	23100	5	40.5	26	350	15	11	125	100	-0.5	-0.5	8	6	93	0.54	-0.2	22.5	3950	0.8	0.2	3.7	79	0.7	15	1.25	37
R448249	71	0.18	7450	310	0.8	24900	10	51	30	370	20	14	110	100	-0.5	-0.5	10	4.9	73	0.64	-0.2	23	4750	0.7	0.15	2.2	89	0.6	15	1.05	35
R448250	90	0.17	8950	460	0.6	8200	10	64	30	320	15	17.5	160	100	-0.5	-0.5	12	4.5	76	0.77	-0.2	31.5	5100	1.2	0.15	3.4	84	0.7	17	1.15	66
R448251	40	0.17	5200	230	0.6	11800	5	28	18	330	15	7.5	110	100	-0.5	-0.5	5.5	2.6	68	0.41	-0.2	14	3600	0.6	0.2	1.8	63	0.5	13.5	1.15	39
R448252	44	0.28	4600	240	1.1	24800	10	39	19	340	15	10	110	150	-0.5	-0.5	7.5	4.9	64	0.66	-0.2	20	3350	0.9	0.25	3.3	63	1.1	20	1.7	32
R448253	34	0.16	4550	210	0.7	24400	-5	29	16	320	20	7.5	89	100	-0.5	-0.5	6	3.6	63	0.43	-0.2	14.5	2750	0.7	0.15	2.4	51	0.8	11.5	1.1	33
R448254	65	0.21	7650	250	1.5	16900	10	54	28	320	10	14	150	150	-0.5	-0.5	10	6	72	0.72	-0.2	24.5	4500	1	0.2	3	90	1.1	17.5	1.35	45
R448255	37.5	0.41	4900	250	0.8	20700	10	33.5	19	280	15	8.5	99	100	-0.5	-0.5	7	3.9	65	0.68	-0.2	20	3400	0.5	0.4	4.3	65	1	28	2.7	34
R448256	37.5	0.24	5650	220	1.7	22200	-5	32	21	330	15	8	83	250	-0.5	-0.5	6	4.4	67	0.49	-0.2	18.5	3350	0.5	0.2	2.9	89	0.8	15.5	1.4	37
R448257	44.5	0.2	5450	230	0.7	12400	10	38	17	220	10	10	165	100	-0.5	-0.5	7.5	4.5	75	0.55	-0.2	22.5	3600	0.8	0.2	3	55	0.9	15.5	1.25	29
R448258	63	0.23	7800	410	0.6	9600	10	52	23	280	15	13.5	145	100	-0.5	-0.5	9.5	3.7	88	0.69	-0.2	24.5	4850	1	0.25	2.5	78	0.9	19	1.45	63
R448259	67	0.19	7800	270	0.9	18700	10	51	24	310	15	13.5	120	200	-0.5	-0.5	9.5	4.1	81	0.66	-0.2	22.5	5050	0.7	0.15	3.2	81	0.8	15	1.15	38
R448260	32.5	0.32	19400	900	0.5	17700	-5	28.5	36	320	20	7.5	70	100	-0.5	-0.5	6	2.6	110	0.59	-0.2	12	8050	0.5	0.35	1.4	175	0.5	23.5	2.2	76
R448261	66	0.16	7300	380	0.5	13600	10	53	24	240	10	14	115	100	-0.5	-0.5	9.5	3.4	86	0.68	-0.2	25.5	5350	0.9	0.2	3.2	84	0.5	15.5	1.1	42
R448262	46	0.17	8450	330	0.6	7700	10	39	26	210	10	10	160	450	-0.5	-0.5	7	4.7	77	0.53	-0.2	19.5	4950	1.2	0.15	3.1	81	0.8	13	1.05	45
R448263	50	0.2	6200	320	0.6	6500	5	42.5	24	270	20	11	125	150	-0.5	-0.5	8	3.9	69	0.61	-0.2	19	4600	1	0.2	2.6	82	0.8	15.5	1.35	51
R448264	44	0.27	5950	450	0.7	8400	10	34.5	18	310	15	9	130	150	-0.5	-0.5	7	3.6	75	0.57	-0.2	16.5	4000	1	0.25	2.5	64	0.6	20.5	1.65	42
R448265	56	0.2	8400	360	0.5	9150	10	45	25	250	15	12	150	100	-0.5	-0.5	8.5	3.6	76	0.6	-0.2	20.5	5050	1	0.2	2.4	81	0.8	18	1.3	50
R448266	50	0.17	6700	420	0.5	12000	10	39	20	230	15	10.5	135	100	-0.5	-0.5	7.5	4.1	86	0.53	-0.2	18	5150	0.8	0.15	2.2	95	0.6	14	1.05	54
R448267	39	0.19	5550	280	0.6	9100	5	31	18	270	15	8	120	150	-0.5	-0.5	6.5	2.7	100	0.47	-0.2	14.5	3900	0.7	0.2	1.75	68	0.7	14.5	1.3	49
R448268	74	0.21	8050	380	0.9	9800	10	64	25	300	15	16	185	150	-0.5	-0.5	11.5	4.4	78	0.78	-0.2	25.5	4900	1.2	0.2	2.6	85	1.3	18.5	1.35	58
R448269	41.5	0.26	5550	260	0.5	14000	10	38	18	270	15	10	145	100	-0.5	-0.5	7.5	3.6	72	0.61	-0.2	17	4050	0.9	0.25	2.5	64	1.6	20	1.75	44
R448270	48	0.25	6300	380	0.5	14500	5	43	21	310	15	11	115	150	-0.5	-0.5	8	3.1	86	0.65	-0.2	17.5	4000	0.8	0.25	2	71	1.1	20.5	1.6	58
R448271	49.5	0.18	5750	240	0.6	22100	5	40.5	17	300	10	11	115	100	-0.5	-0.5	7	4.3	68	0.53	-0.2	17.5	3600	0.8	0.15	2.8	60	0.7	14.5	1.15	33
R448272	61	0.19	8350	240	1.5	28400	5	57	26	470	15	15	98	100	-0.5	-0.5	10.5	3.9	86	0.69	-0.2	22	5550	0.6	0.15	2.4	115	0.7	14	1.2	43
R448273	32	0.13	6000	280	0.7	33900	-5	34	23	410	15	8.5	61	50	-0.5	-0.5	6.5	4.6	66	0.46	-0.2	14.5	4250	0.7	0.1	1.75	82	0.7	9	0.8	45
R448274	43.5	0.25	7400	340	0.5	15800	-5	38	19	280	20	10	87	150	-0.5	-0.5	7	3.3	92	0.57	-0.2	18.5	4250	0.6	0.25	2	78	0.4	19	1.65	57
R448275	75	0.23	8850	600	1.5	9300	10	66	30	310	20	17	155	150	-0.5	-0.5	11.5	3.1	85	0.84	-0.2	27	5000	1.2	0.25	3.5	87	0.7	19.5	1.45	88
R448276	53	0.22	6900	430	0.9	10500	10	45.5	23	250	25	12	135	100	-0.5	-0.5	8.5	3.8	71	0.61	-0.2	19.5	4300	0.9	0.2	2.3	73	1.6	17	1.35	72
R448277	19.5	0.36	31200	1400	1.2	11100	-5	21	63	290	15	4.9	45.5	150	-0.5	-0.5	5	1.4	105	0.61	-0.2	10	10300	0.4	0.4	0.8	260	1.4	28	2.5	105
R448278	52	0.23	6000	310	0.9	5850	10	41.5	23	240	15	11	150	100	-0.5	-0.5	8	4.3	56	0.62	-0.2	18.5	4600	1	0.25	2.3	83	1	20.5	1.6	43
R448279	57	0.34	9050	650	0.9	12100	5	42	21	420	15	11	135	150	-0.5	-0.5	8.5	4.2	130	0.69	-0.2	17	3600	0.9	0.35	2.9	79	1.9	28	2.4	51
R448280	52	0.17	5250	280	0.7	8550	10	38.5	17	270	20	10	150	100	-0.5	-0.5	7	3.5	59	0.51	-0.2	17	3800	0.9	0.15	2	60	0.7	15	1.1	52
R448281	50	0.26	6600	550	1	8500	10	38.5	22	240	15	10	135	100	-0.5	-0.5	7.5	3.1	80	0.61	-0.2	15.5	4450	0.8	0.25	1.9	85	0.8	20	1.75	69
R448282	76	0.14	8150	175	2.3	30800	-5	57	22	390	10	14.5	73	350	-0.5	-0.5	10.5	2.9	90	0.69	-0.2	19	3300	0.7	0.15	2.6	81	0.8	13.5	0.9	38
R448283	62	0.21	5700	230	0.7	14800	10	46	18	250	15	12	150	100	-0.5	-0.5	8.5	4.2	79	0.66	-0.2	20.5	3750	0.9	0.25	2.5	63	0.9	19.5	1.35	41
R448284	57	0.27	5500	250	1.1	27400	10	40.5	18	320	15	10.5	85	150	-0.5	-0.5	7.5	4.8	85	0.64	-0.2	23	3700	0.5	0.25	2.4	74	1.6	23	1.75	37
R448285	60	0.2	8000	300	1.1	24000	10	45.5	24	310	15	11.5	110	400	-0.5	-0.5	8.5	4.5	78	0.59	-0.2	23.5	4650	0.5	0.15	3.3	81	1.5	15	1.25	36
R448286	64	0.23	9550	350	1.2	14600	10	52	27	360	15	13	130	350	-0.5	-0.5	9.5	3.7	94	0.67	-0.2	22.5	5050	0.7	0.25	2.9	87	1.3	19	1.5	51
R448287	76	0.28	7550	280	0.8	23300	5	58	21	390	10	15	100	200	-0.5	-0.5	10.5	4.3	95	0.76	-0.2	22	4400	0.5	0.25	2.3	76	1.1	22.5	1.7	39
R448288	68	0.24	4050	280	1.3	26800	-5	51	16	340	15	13.5	39.5	350	-0.5	-0.5	9	3.8	90	0.62	-0.2	18	3400	0.2	0.25	2.2	95	0.7	18.5	1.55	34
R448289	44.5	0.15	5400	280	1.4	36700	-5	39	25	360	15	10	45	100	-0.5	-0.5	7.5	5.5	57	0.51	-0.2	15	4050	0.4	0.15	2.2	115	0.9	12	1.05	28

Appendix 2.3

Faugh-a-Ballagh soils <6mm

	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R448290	63	0.24	8750	320	0.8	23600	10	49.5	26	350	10	13	98	350	-0.5	-0.5	9.5	4.5	95	0.7	-0.2	23.5	4950	0.5	0.25	2.5	87	1.1	19	1.55	42
R448291	41.5	0.21	6500	320	0.7	25500	-5	32	19	330	10	8	73	250	-0.5	-0.5	6.5	4.3	110	0.53	-0.2	21	4150	0.4	0.2	3.5	81	1.8	15.5	1.25	36
R448292	39.5	0.23	5650	240	2.6	17700	-5	33.5	18	360	15	8.5	75	600	-0.5	-0.5	6.5	3.1	65	0.55	0.2	15	2750	0.4	0.2	2.6	83	0.7	17.5	1.45	38
R448293	46.5	0.2	7700	300	1.2	31500	-5	40	22	360	15	10.5	80	250	-0.5	-0.5	7.5	4.3	75	0.56	-0.2	18.5	4100	0.5	0.2	2.7	88	1.2	14.5	1.25	36
R448294	32	0.22	3900	200	2.9	17500	-5	29.5	14	390	15	7.5	34.5	300	-0.5	-0.5	6	4.5	60	0.53	0.4	15.5	2900	0.2	0.2	1.8	86	1	17.5	1.45	32
R448295	57	0.26	3700	290	1.9	24500	-5	43	14	470	10	12	25.5	1450	-0.5	1	8	3.4	140	0.6	-0.2	25.5	3650	0.4	0.25	2.8	97	1.1	21	1.6	34
R448296	51	0.33	4100	340	1.3	32800	5	48	14	220	10	12.5	23	150	-0.5	-0.5	9.5	3.4	62	0.74	-0.2	21.5	3150	0.2	0.35	2.6	94	1.1	27	2.1	31
R448297	41	0.47	5400	320	1.4	26300	10	39	14	260	5	10	30	150	-0.5	-0.5	8	3.5	68	0.83	-0.2	25.5	3150	0.3	0.45	3.8	77	1.1	31	3	33
R448298	36.5	0.46	10100	500	8.5	6600	-5	35	48	330	20	9	36	200	-0.5	-0.5	8.5	4	210	1.05	-0.2	43.5	2450	0.3	0.5	5.5	105	0.9	42.5	3	46
R448299	66	0.25	5650	220	2	39300	-5	50	29	440	15	13.5	31.5	150	-0.5	-0.5	9	4.4	60	0.73	-0.2	24	3400	0.4	0.25	3.3	145	2.2	22	1.7	30
R448300	58	0.21	8500	370	1.8	24700	5	48	28	340	10	12.5	78	350	-0.5	-0.5	8.5	3.9	73	0.63	-0.2	33.5	5550	0.6	0.2	4.9	110	2.5	18	1.3	36
R448301	30.5	0.21	5800	310	0.8	10000	-5	26	15	360	15	7	45.5	250	-0.5	-0.5	4.8	2.7	66	0.39	-0.2	15	3350	0.4	0.2	1.65	57	1.2	16	1.25	42
R448302	33	0.27	6200	380	1.8	20300	5	31	18	550	10	8	78	900	-0.5	-0.5	6	4.3	73	0.58	-0.2	42	4100	0.5	0.25	3.7	96	2.6	22	1.55	34
R448303	46.5	0.2	4500	250	1.5	33000	-5	42.5	26	370	10	11	41	300	-0.5	-0.5	9	4.1	60	0.61	-0.2	25.5	3150	0.3	0.2	3.3	110	1.4	17.5	1.15	30
R448304	44	0.23	3050	185	2.8	27700	-5	41	18	370	10	10.5	36	450	-0.5	-0.5	9	4.4	61	0.6	-0.2	34.5	2850	0.3	0.25	2.9	88	1.5	19	1.4	28
R448305	14.5	0.17	3800	155	2.9	27700	-5	14.5	14	470	10	3.7	55	900	-0.5	-0.5	3.5	4.2	69	0.27	0.3	46.5	2200	0.5	0.15	4.6	65	1.8	11	1	25
R448306	18.5	0.24	3800	300	1.4	38600	-5	20.5	14	310	10	5	10	100	-0.5	-0.5	4.3	4	43.5	0.38	-0.2	15	3400	0.2	0.25	1.9	94	1.1	16.5	1.6	25
R448307	42	0.37	7800	440	1.1	34400	-5	39	11	400	10	10	33.5	100	-0.5	-0.5	8	3.4	61	0.68	-0.2	26.5	2950	0.3	0.35	3.1	64	0.9	27.5	2.4	30
R448308	26	0.31	6850	380	16.5	12700	-5	28.5	27	420	5	6.5	45.5	1200	-0.5	1	7.5	6	89	0.69	0.4	24	2650	0.4	0.3	4.6	115	1.7	25	1.8	38
R448309	27	0.25	2800	185	2.3	34900	-5	29	16	310	10	7.5	14	150	-0.5	-0.5	6.5	3.4	40.5	0.59	-0.2	18	2750	0.2	0.25	3.4	97	1	20	1.55	26
R448310	43	0.22	4550	230	1.9	36400	-5	39	23	380	15	10.5	24.5	150	-0.5	-0.5	7.5	4.2	45	0.57	-0.2	19	3100	0.3	0.2	2.8	120	1.3	18	1.3	30
R448311	53	0.18	6750	280	1.4	29900	5	48.5	27	350	10	12.5	56	150	-0.5	-0.5	9	4.5	66	0.61	-0.2	25.5	4550	0.5	0.15	4.1	110	2.2	13.5	1.05	35
R448312	64	0.31	7050	260	1	18400	-5	57	23	290	10	15	105	100	-0.5	-0.5	11	4.9	84	0.79	-0.2	42	4050	0.8	0.3	2.8	86	2.4	25.5	1.85	37
R448313	41.5	0.23	5950	290	1.2	27100	-5	35	22	330	15	9.5	57	200	-0.5	-0.5	7	3.6	72	0.52	-0.2	21.5	3600	0.5	0.2	2.9	88	1.4	18	1.35	35
R448314	36	0.24	5250	270	1	25000	-5	31	18	310	10	8	47	150	-0.5	-0.5	6	3.5	73	0.49	-0.2	21	3450	0.5	0.25	3.7	79	1.8	19	1.6	37
R448315	35.5	0.21	3400	190	1.3	32200	-5	32	21	320	15	8.5	33.5	150	-0.5	-0.5	6.5	4	55	0.5	-0.2	21.5	3050	0.3	0.2	2.6	110	1.4	17	1.3	32
R448316	49.5	0.37	4900	280	2.8	25900	5	47	18	310	10	12	32	200	-0.5	-0.5	10	3.8	63	0.88	-0.2	28.5	2950	0.2	0.4	3	100	1.1	27	2.4	29
R448317	44	0.31	5700	260	0.9	30200	-5	39.5	12	440	10	10.5	28.5	200	-0.5	-0.5	7.5	3.9	70	0.6	-0.2	21	3900	0.2	0.3	1.95	105	1	23	1.95	32
R448318	52	0.47	6450	410	1.2	32400	5	49.5	12	490	10	12.5	34	100	-0.5	-0.5	10	3.8	63	0.94	-0.2	27	3400	0.3	0.5	2.7	89	1	36.5	3.1	31
R448319	58	0.21	6400	240	1.2	25600	-5	46	30	340	10	12.5	64	100	-0.5	-0.5	8	5	65	0.55	-0.2	27.5	4250	0.5	0.2	3.1	120	2.1	17	1.3	34
R448320	36.5	0.24	5550	320	1.1	20200	-5	30.5	20	290	10	8	56	100	-0.5	-0.5	6	3.7	75	0.46	-0.2	26.5	3900	0.5	0.25	2.7	80	1.8	19	1.5	41
R448321	51	0.32	6950	290	0.8	25800	-5	41	23	320	10	11	71	150	-0.5	-0.5	8	4	81	0.65	-0.2	26	3550	0.6	0.3	2.8	74	3.1	24	1.85	36
R448322	48.5	0.23	5200	200	1	22900	-5	39.5	15	300	10	10.5	67	150	-0.5	-0.5	7.5	3.9	84	0.49	-0.2	27	3550	0.5	0.2	3.7	65	1.8	16.5	1.35	30
R448323	31.5	0.19	6500	200	1	18300	-5	23.5	19	390	10	6	78	100	-0.5	-0.5	4.6	4.8	74	0.39	-0.2	23	4100	0.6	0.15	2.3	73	1.9	14.5	1.2	40
R448324	45.5	0.23	6200	270	0.8	27800	10	34.5	19	250	15	9	61	100	-0.5	-0.5	6.5	4.6	79	0.48	-0.2	26	3900	0.4	0.2	4.1	64	2.7	16	1.25	32
R448325	51	0.5	7200	340	0.9	21600	-5	39	22	340	15	10.5	78	150	-0.5	-0.5	7.5	4.7	220	0.63	-0.2	26.5	3750	0.6	0.4	3.5	84	1.6	28.5	2.6	34

Appendix 2.4
Element plots for <6 mm soil samples

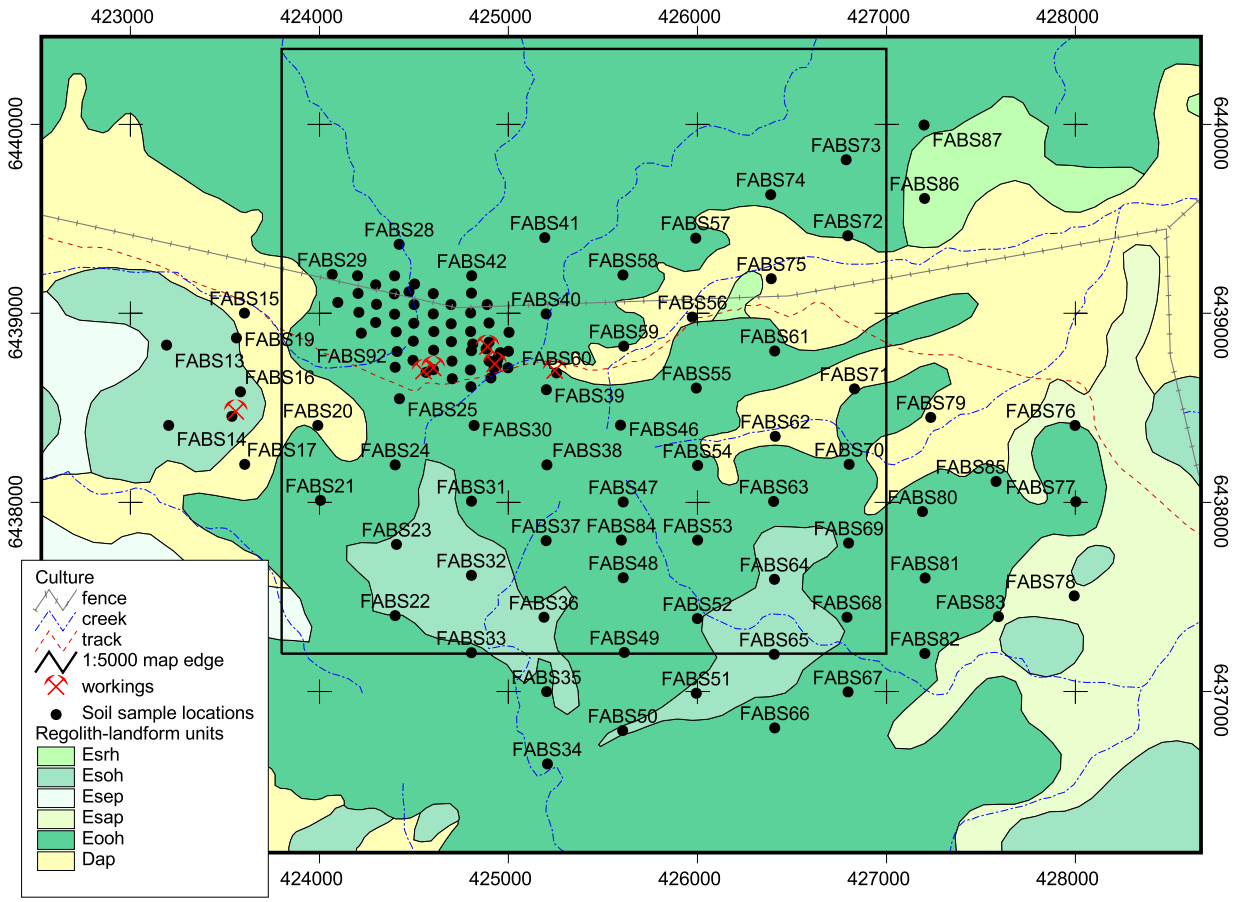


Figure A2.4.1. Locations, selected sample numbers of <6 mm soil samples and regolith landform units at Faugh-a-Ballagh. Other sample numbers are found in the GIS CD.

Regolith landform units used at FAB are described below:

Esrh - Saprock on various siltstones and mudstones of Umberatana Group. Remnant hills.

Esoh - Saprock on metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). Hills.

Esep - Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.

Esap - Thin proximal colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.

Eooh - Slightly weathered metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). High hills.

Dap - Brown soil with lenses of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.

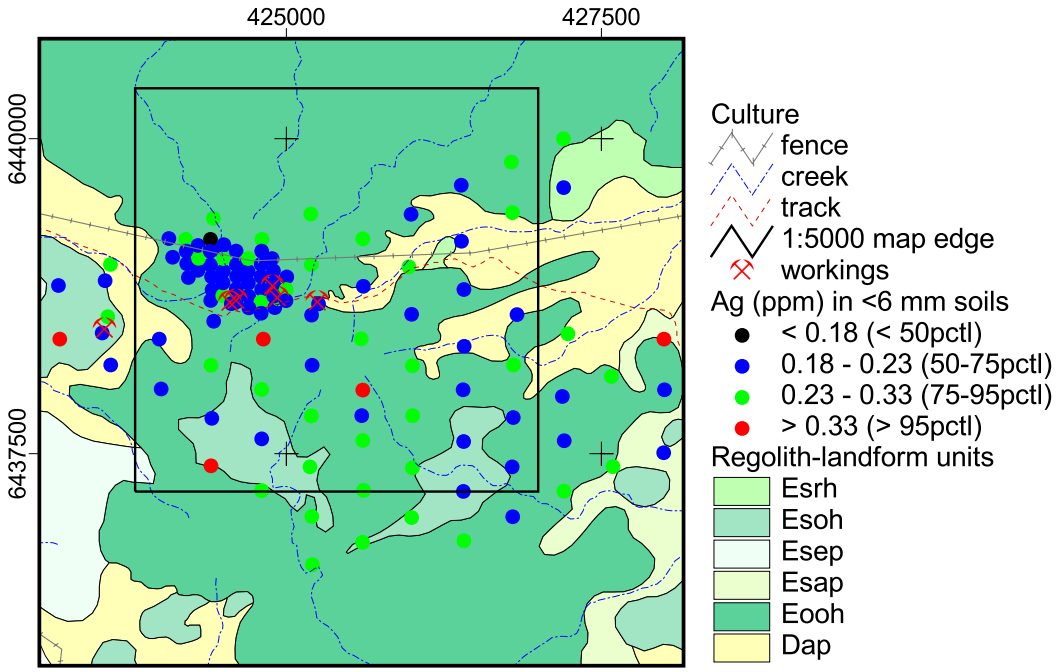


Figure A2.4.2. Distribution of Ag (ppm) in <6 mm soils

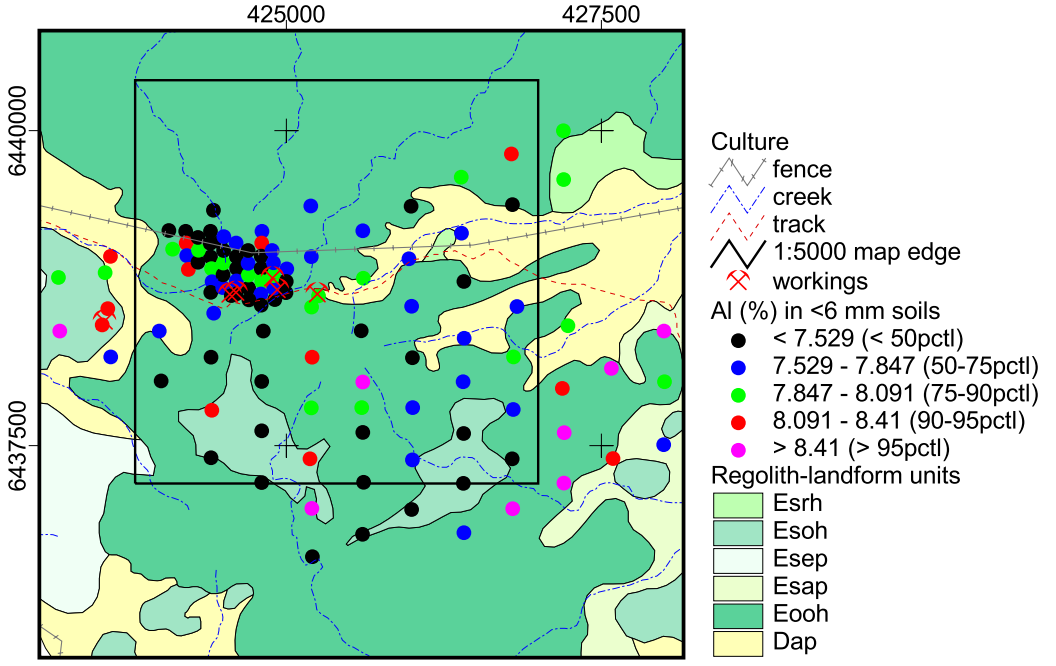


Figure A2.4.3. Distribution of Al (%) in <6 mm soils

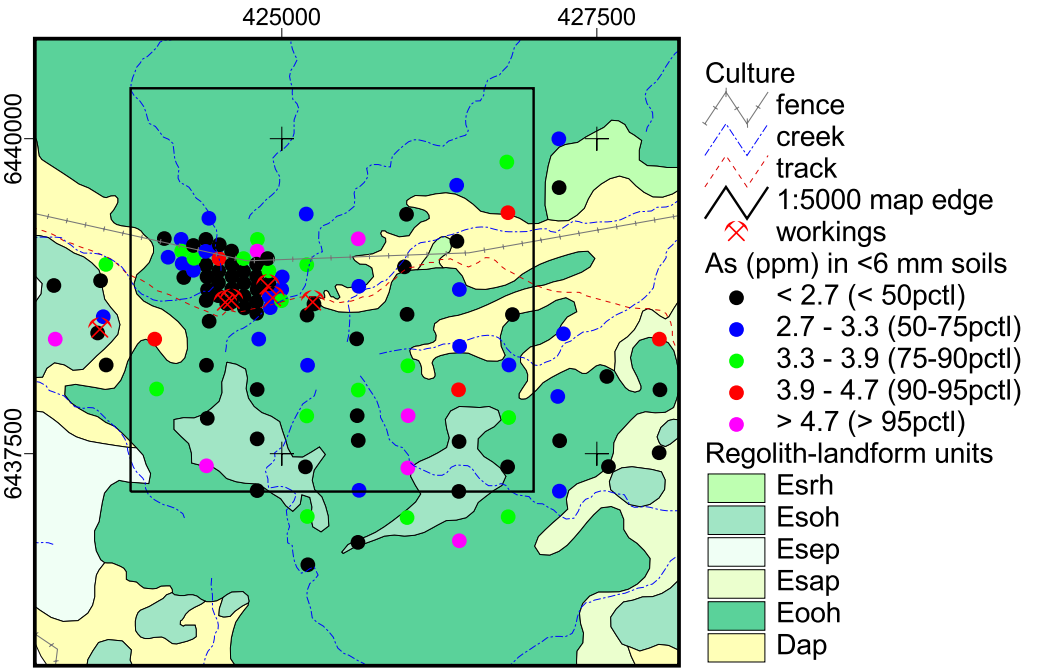


Figure A2.4.4. Distribution of As (ppm) in <6 mm soils

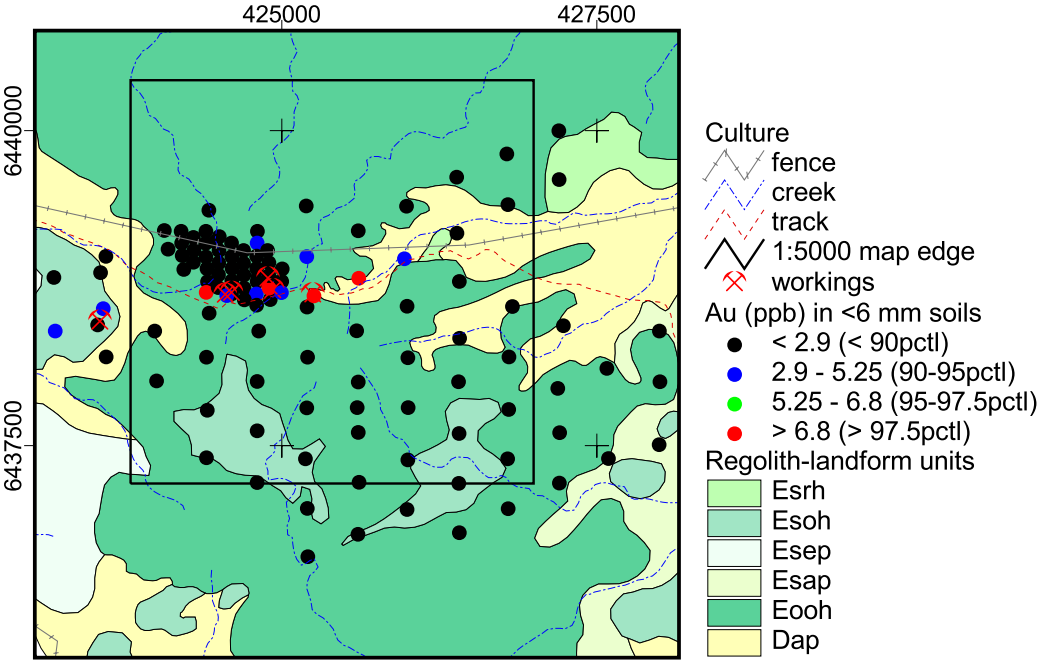


Figure A2.4.5. Distribution of Au (ppb) in <6 mm soils

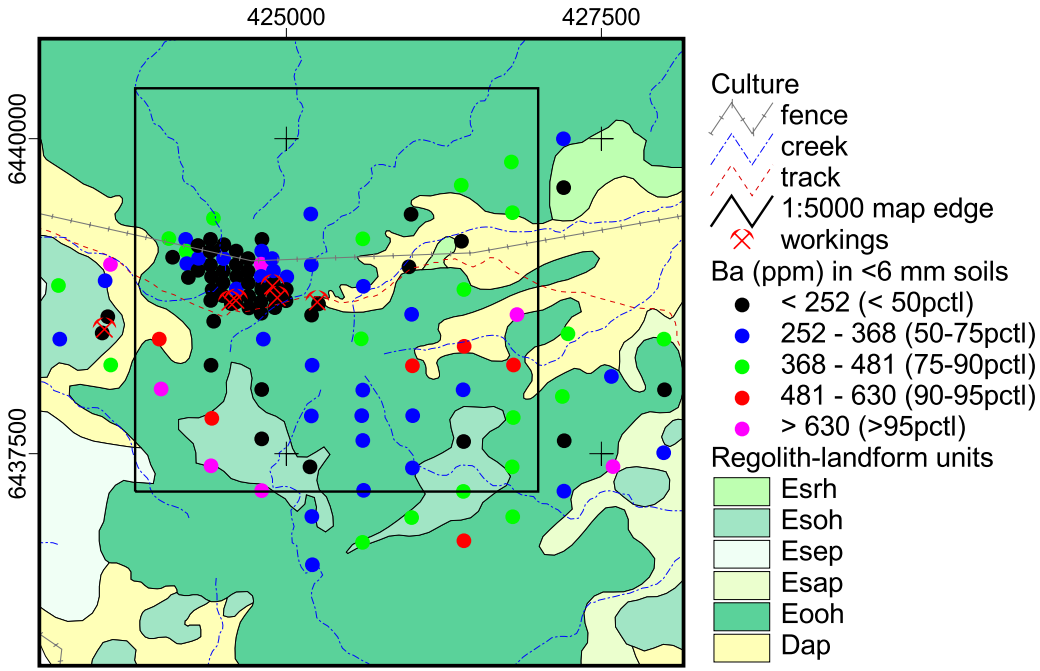


Figure A2.4.6. Distribution of Ba (ppm) in <6 mm soils

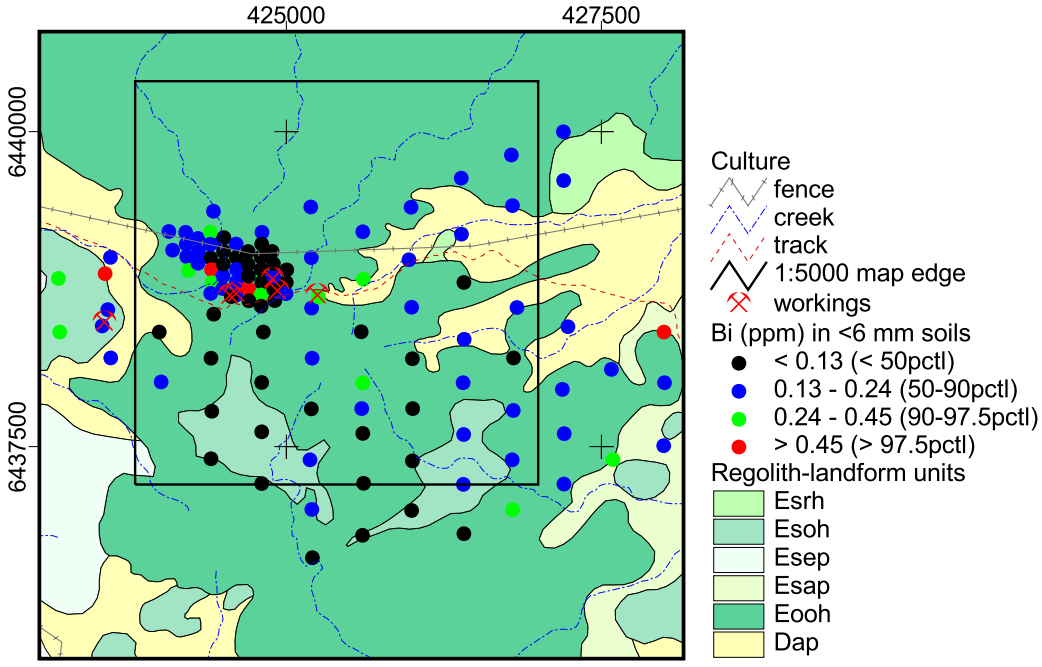


Figure A2.4.7. Distribution of Bi (ppm) in <6 mm soils

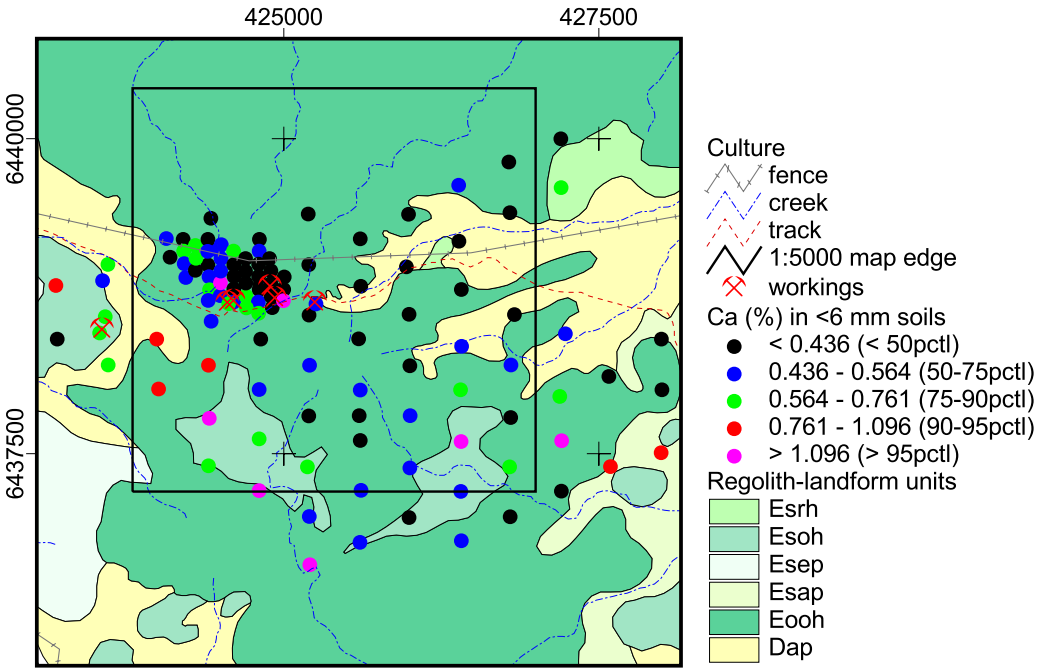


Figure A2.4.8. Distribution of Ca (%) in <6 mm soils

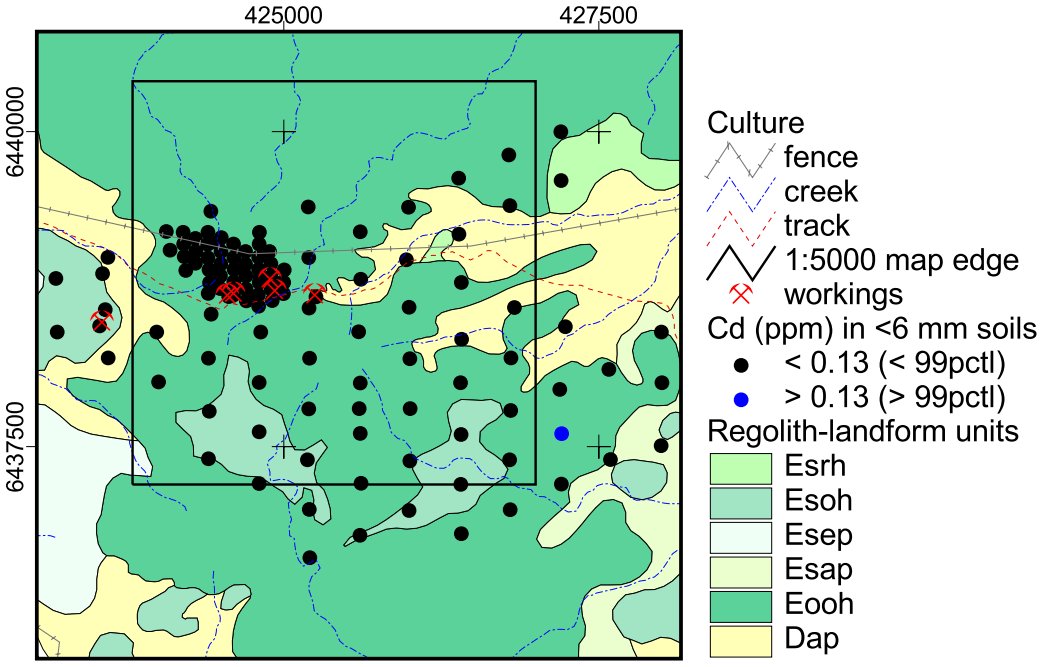


Figure A2.4.9. Distribution of Cd (ppm) in <6 mm soils

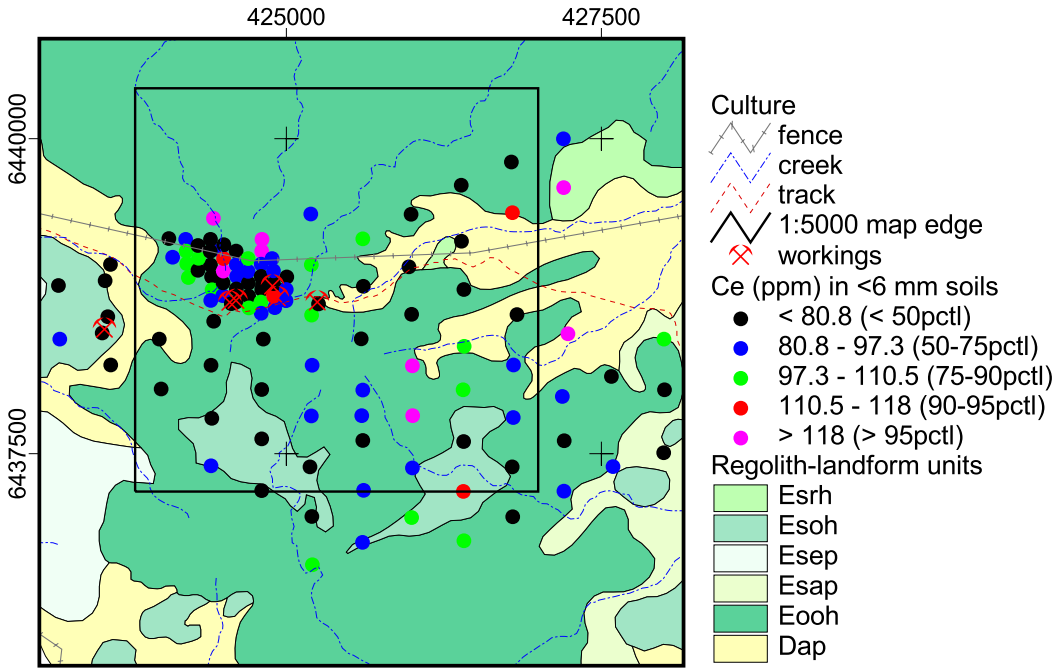


Figure A2.4.10. Distribution of Ce (ppm) in <6 mm soils

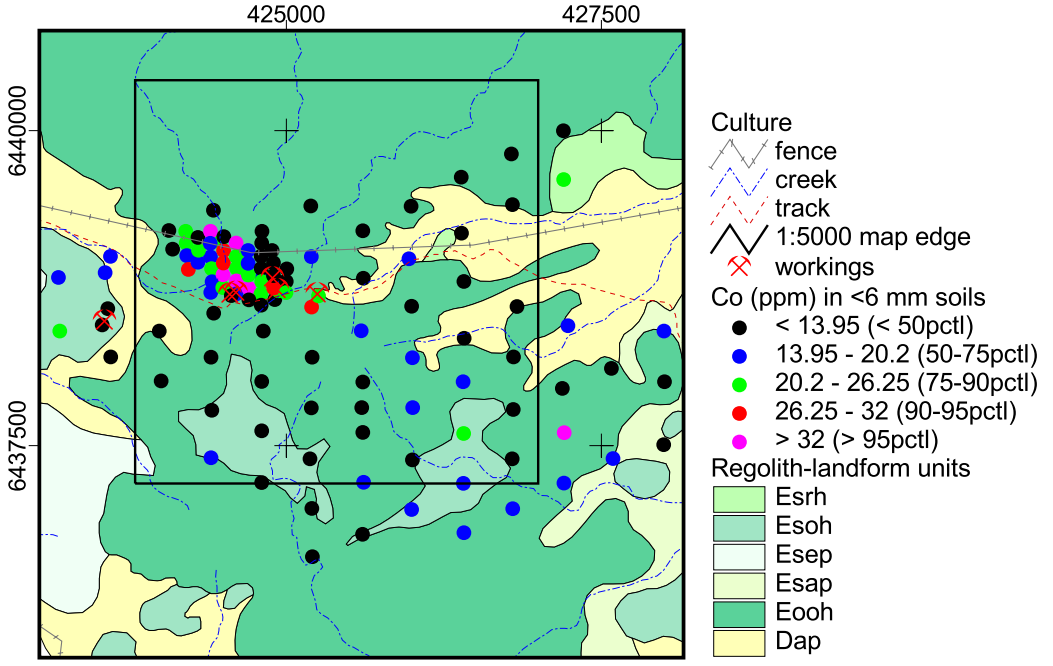


Figure A2.4.11. Distribution of Co (ppm) in <6 mm soils

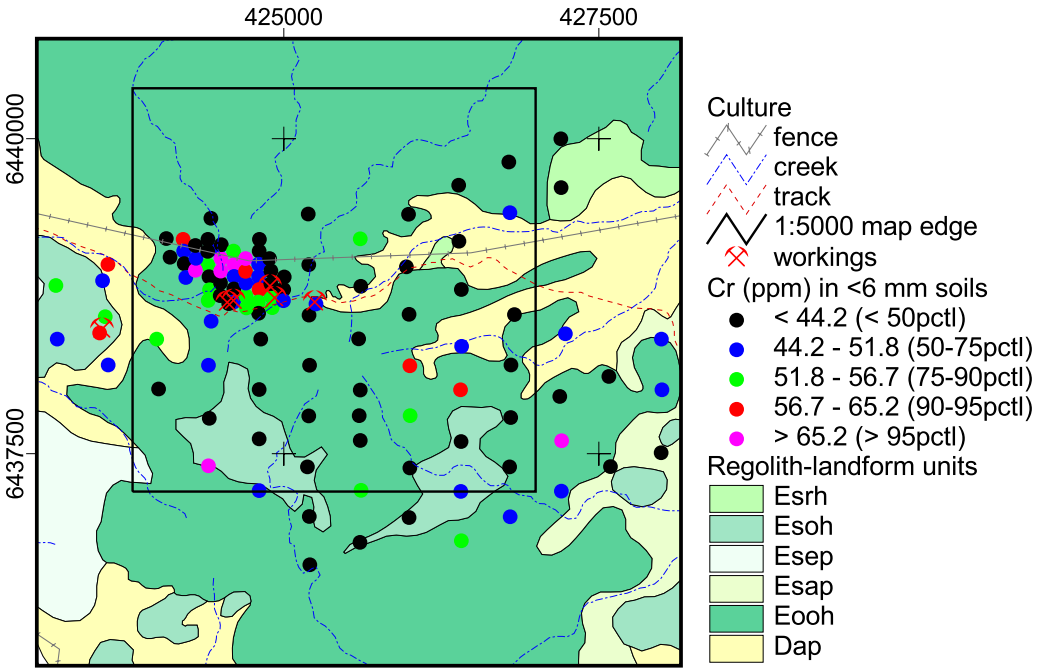


Figure A2.4.12. Distribution of Cr (ppm) in <6 mm soils

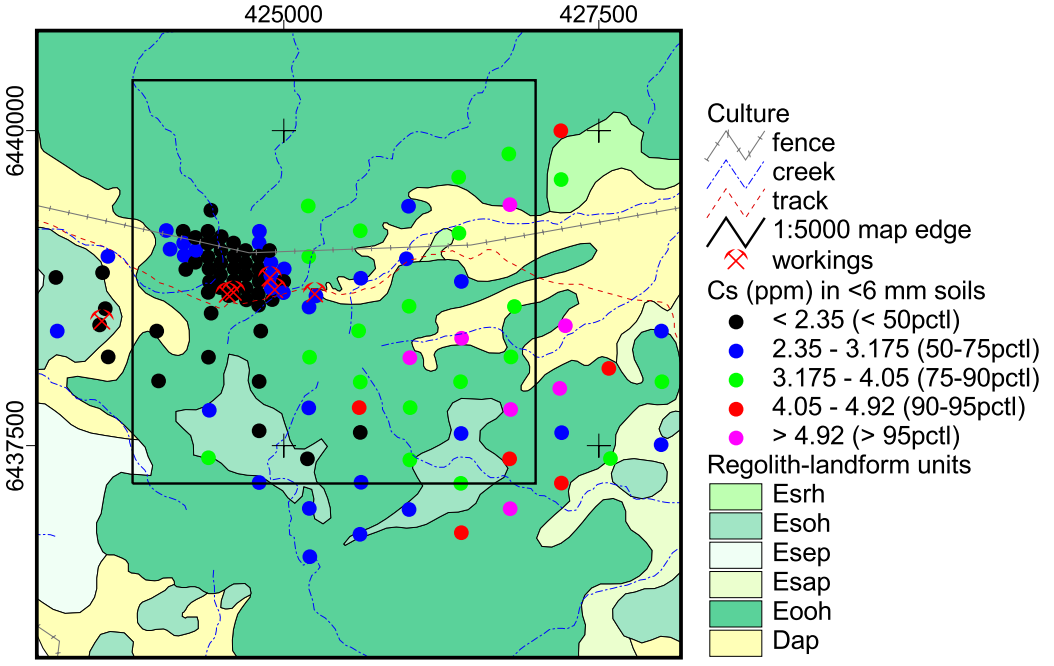


Figure A2.4.13. Distribution of Cs (ppm) in <6 mm soils

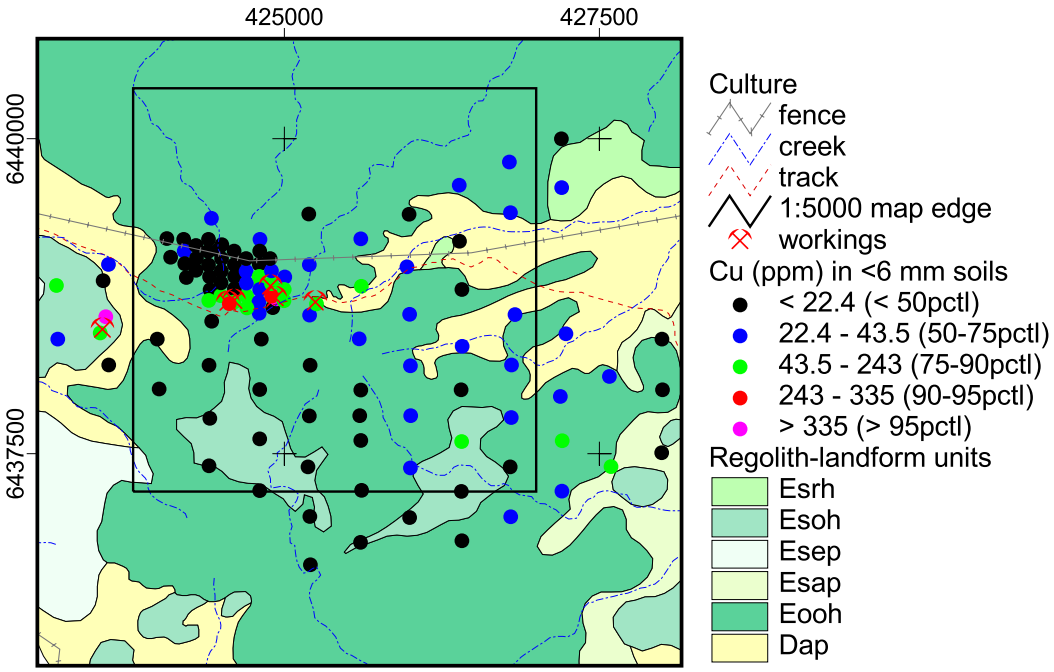


Figure A2.4.14. Distribution of Cu (ppm) in <6 mm soils

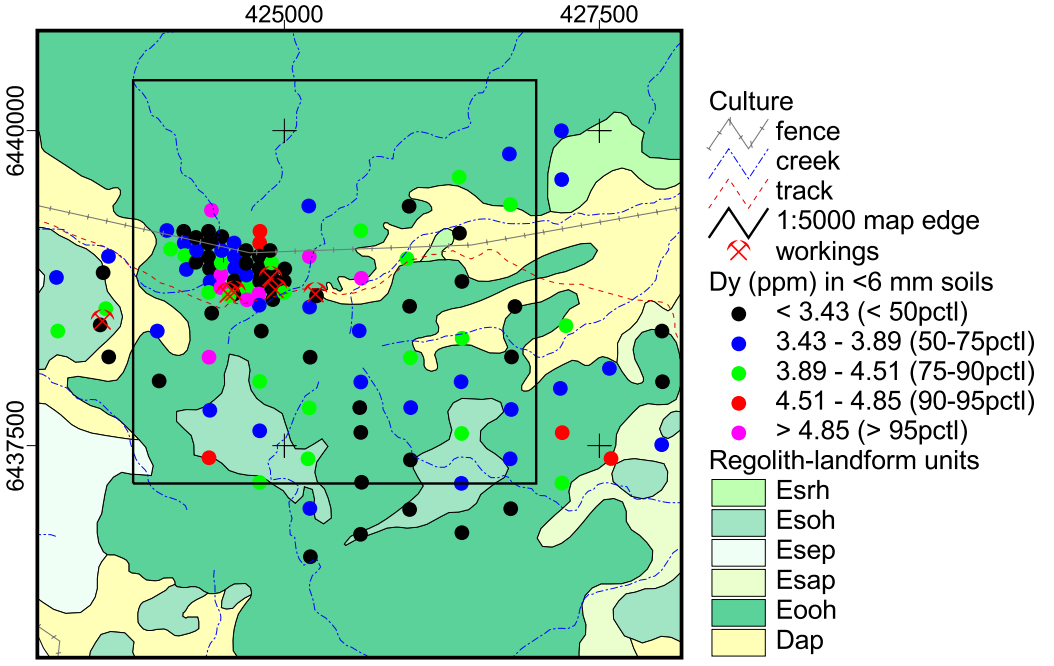


Figure A2.4.15. Distribution of Dy (ppm) in <6 mm soils

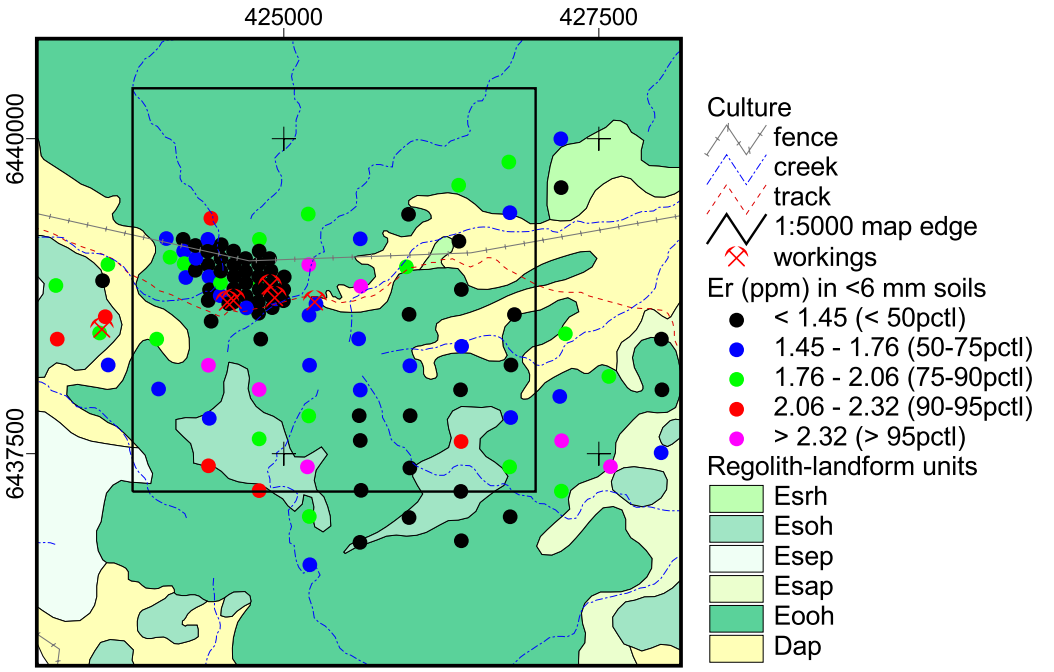


Figure A2.4.16. Distribution of Er (ppm) in <6 mm soils

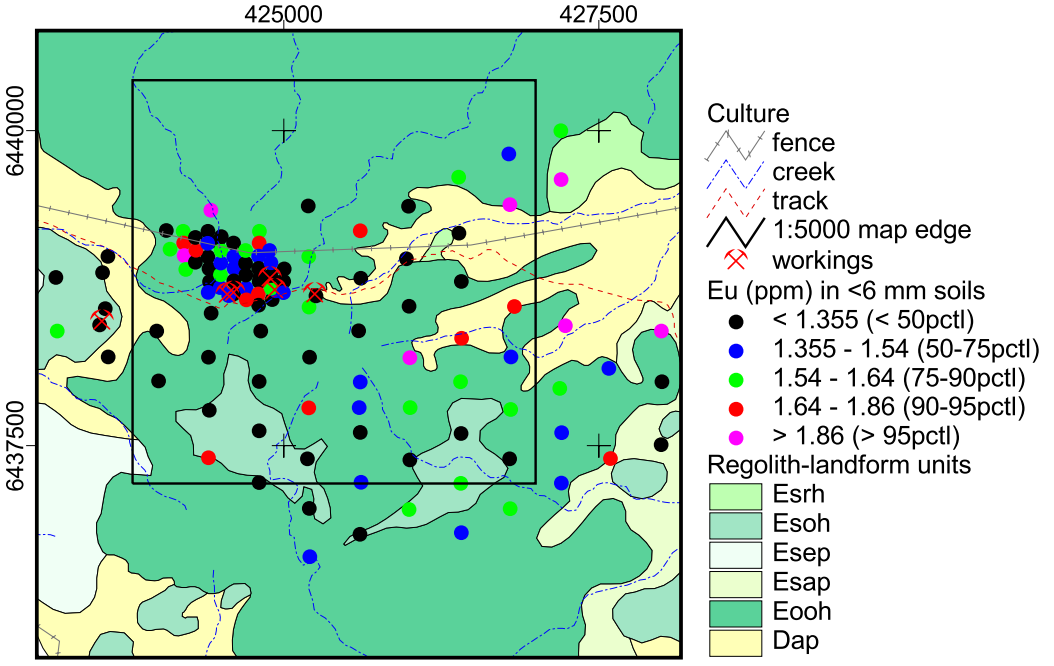


Figure A2.4.17. Distribution of Eu (ppm) in <6 mm soils

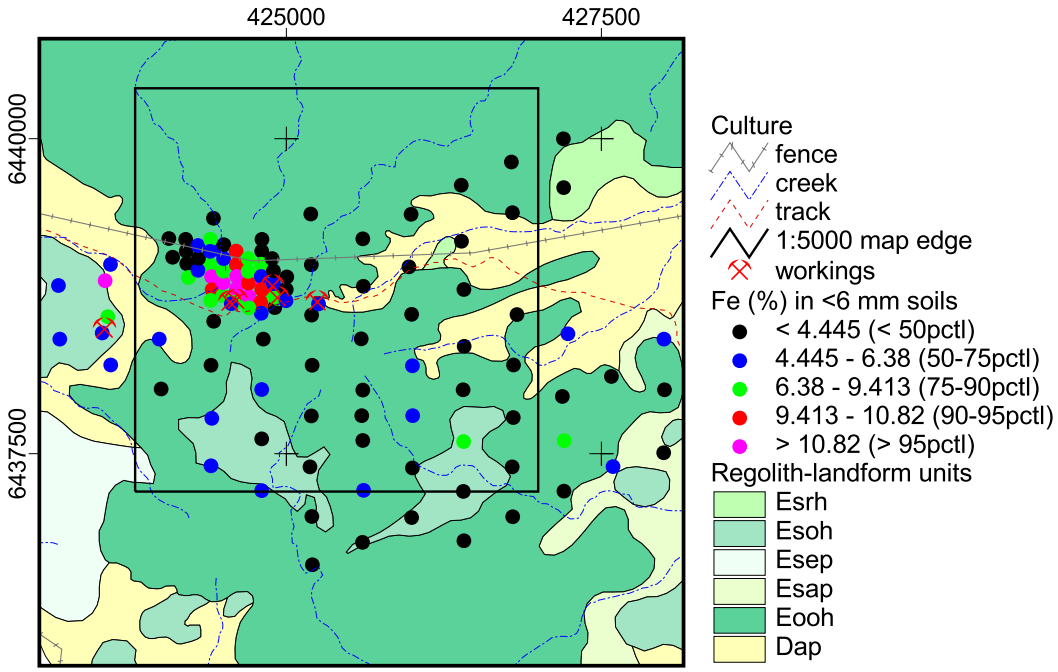


Figure A2.4.18. Distribution of Fe (%) in <6 mm soils

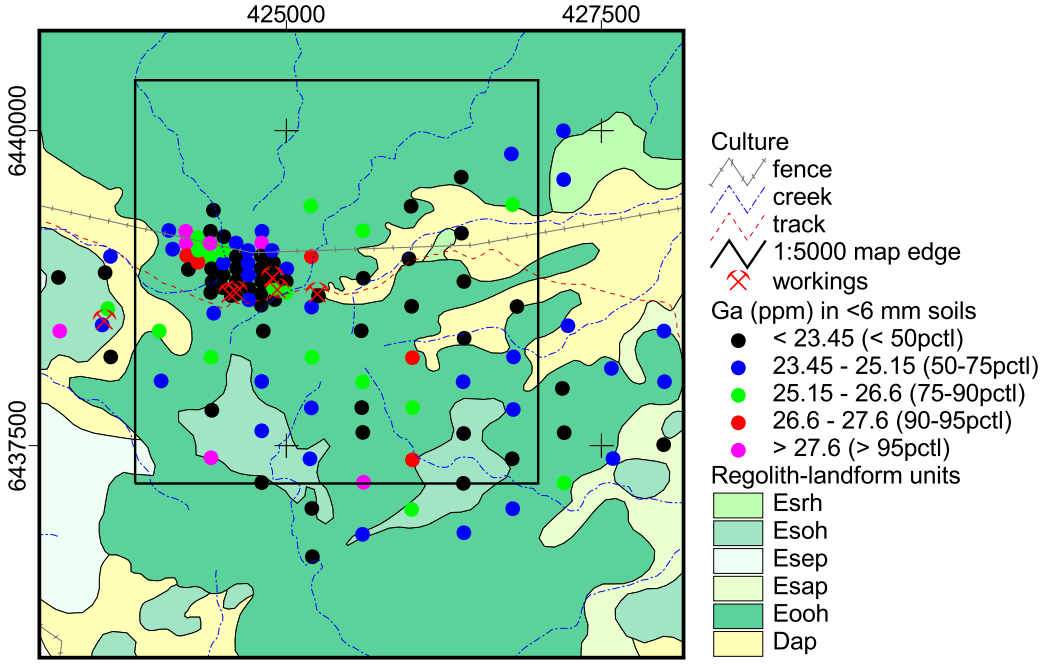


Figure A2.4.19. Distribution of Ga (ppm) in <6 mm soils

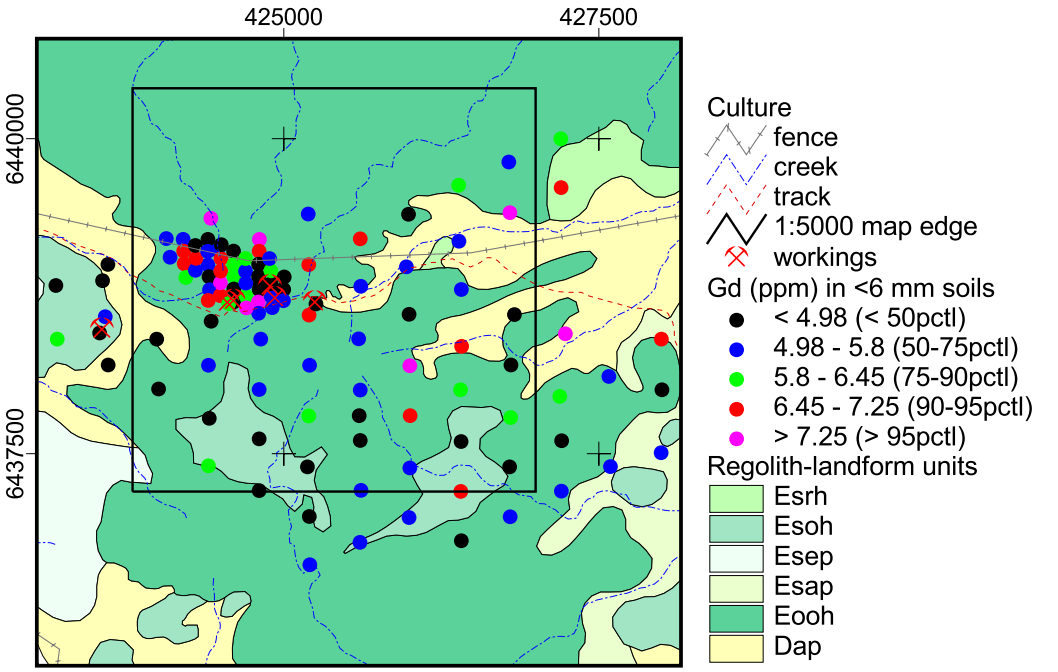


Figure A2.4.20. Distribution of Gd (ppm) in <6 mm soils

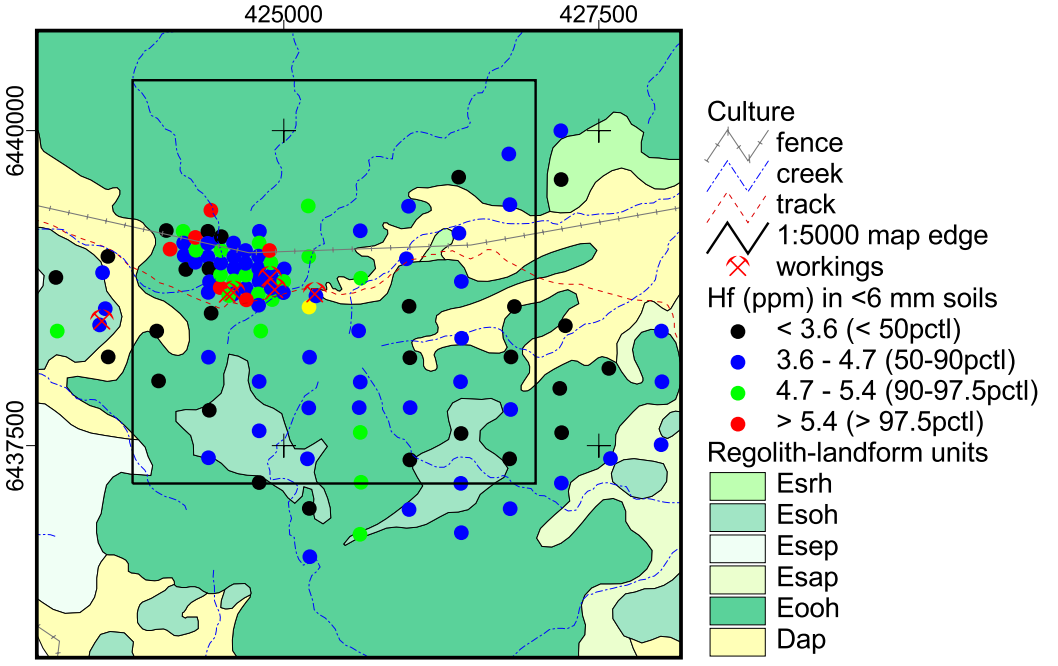


Figure A2.4.21. Distribution of Hf (ppm) in <6 mm soils

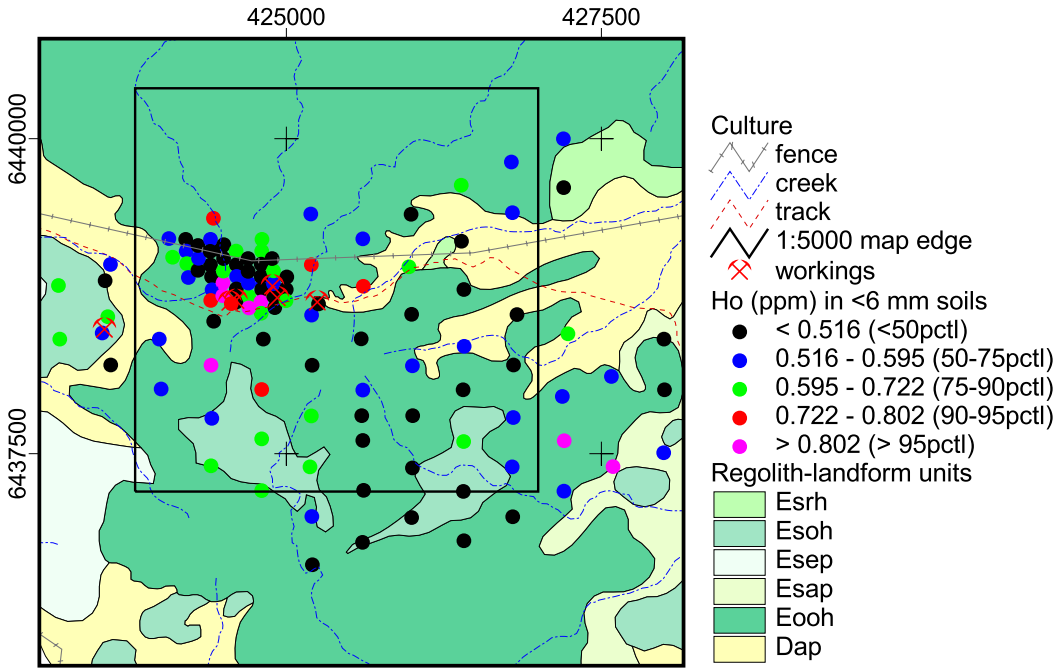


Figure A2.4.22. Distribution of Ho (ppm) in <6 mm soils

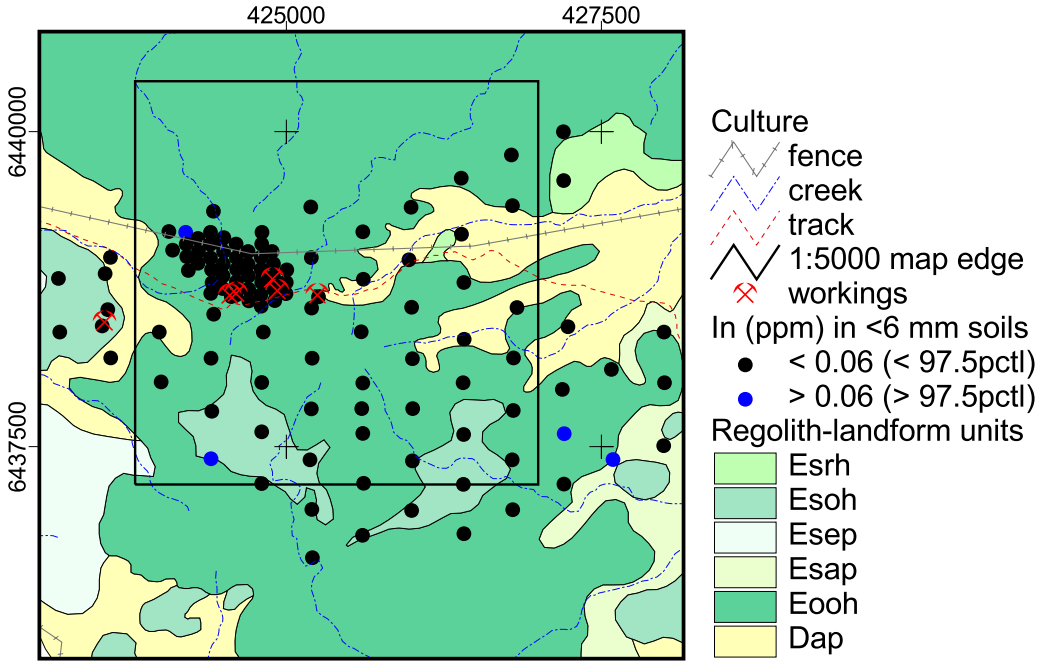


Figure A2.4.23. Distribution of In (ppm) in <6 mm soils

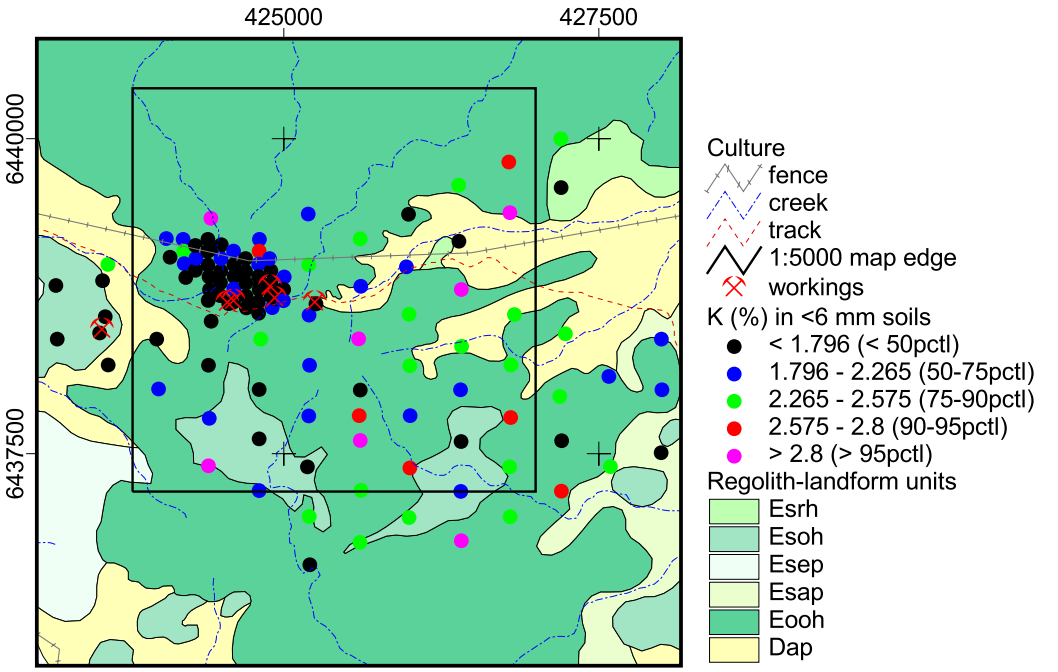


Figure A2.4.24. Distribution of K (%) in <6 mm soils

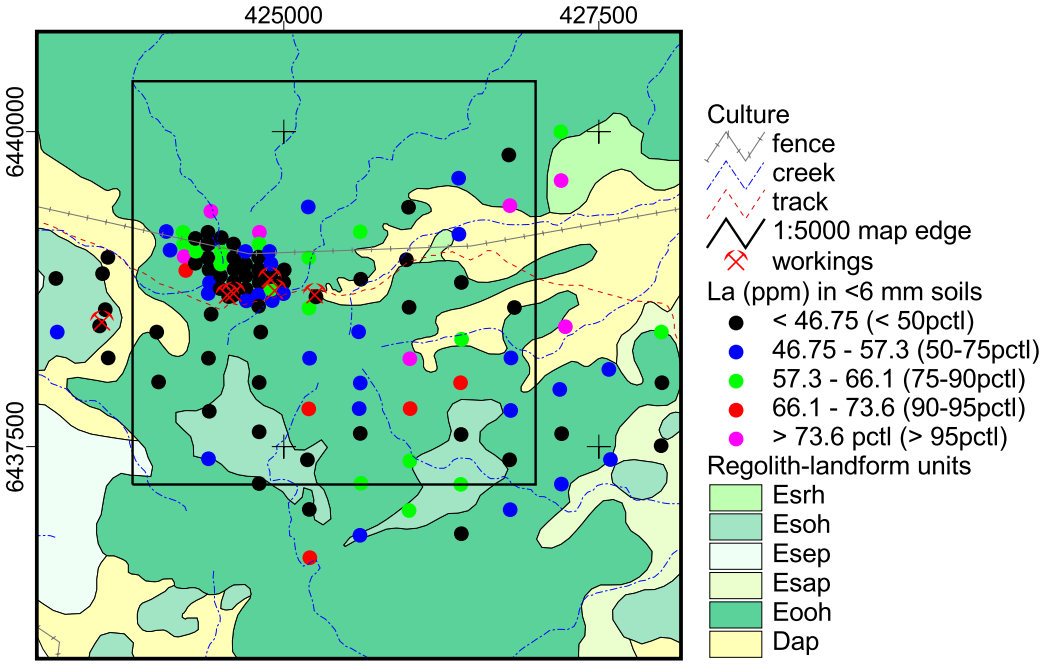


Figure A2.4.25. Distribution of La (ppm) in <6 mm soils

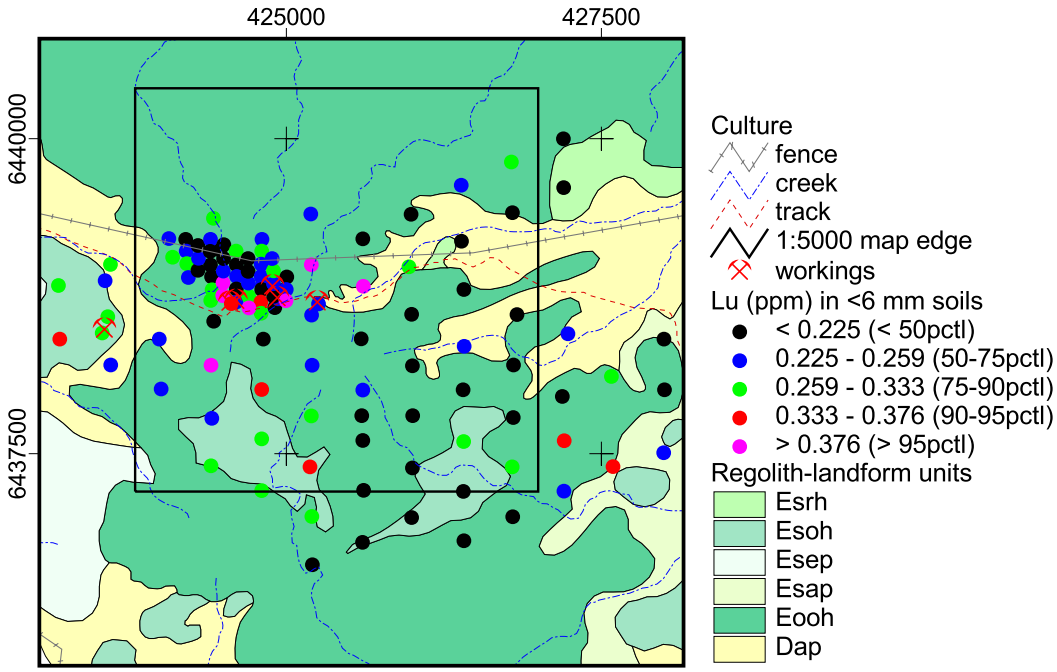


Figure A2.4.26. Distribution of Lu (ppm) in <6 mm soils

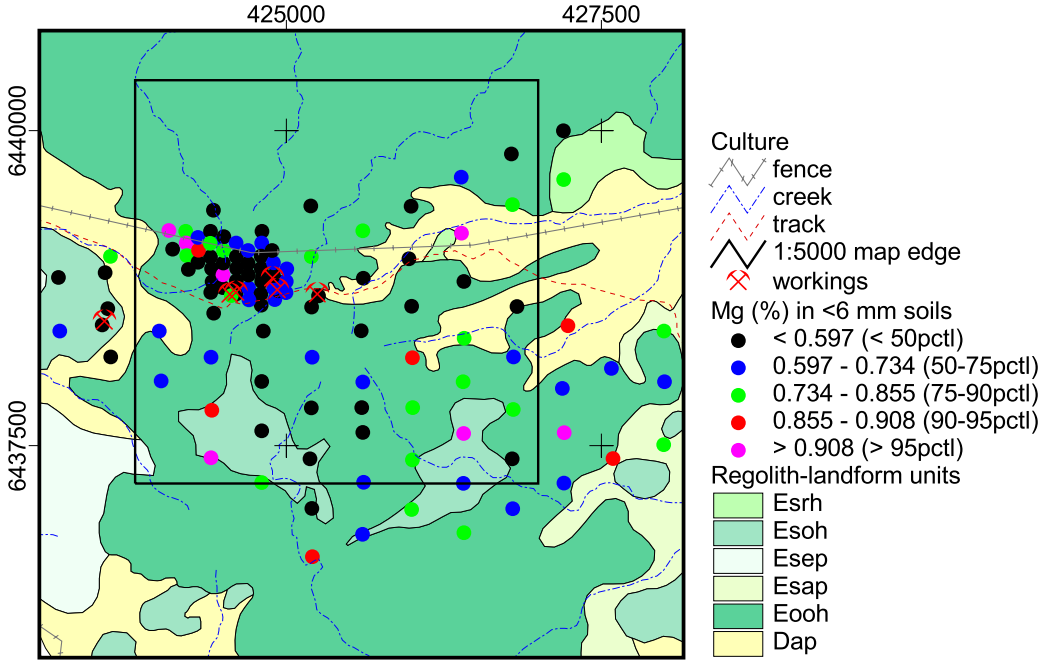


Figure A2.4.27. Distribution of Mg (ppm) in <6 mm soils

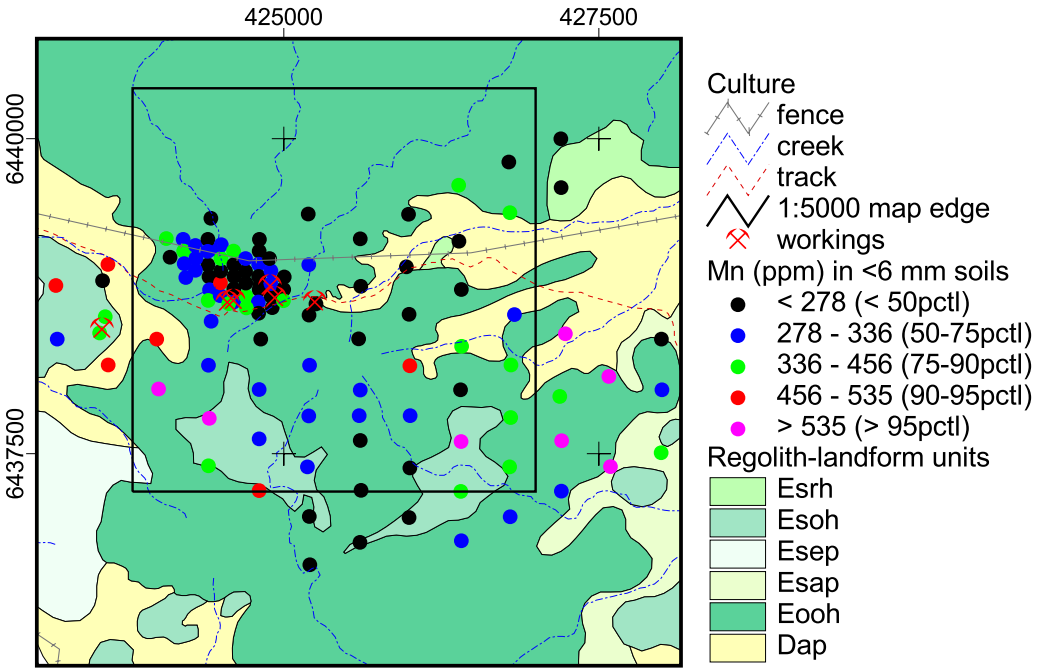


Figure A2.4.28. Distribution of Mn (ppm) in <6 mm soils

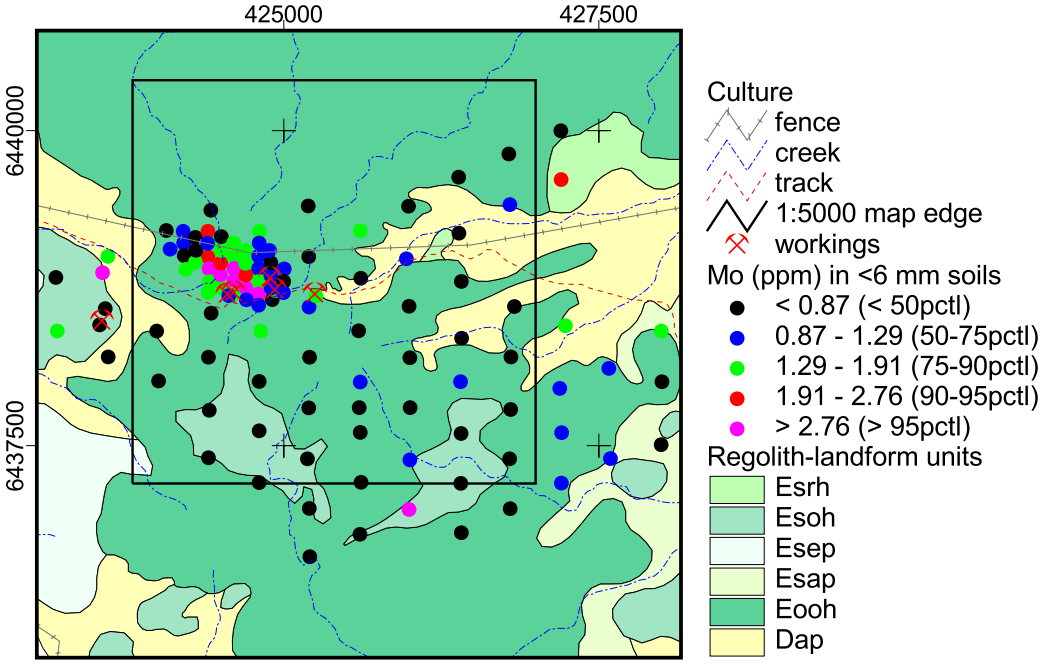


Figure A2.4.29. Distribution of Mo (ppm) in <6 mm soils

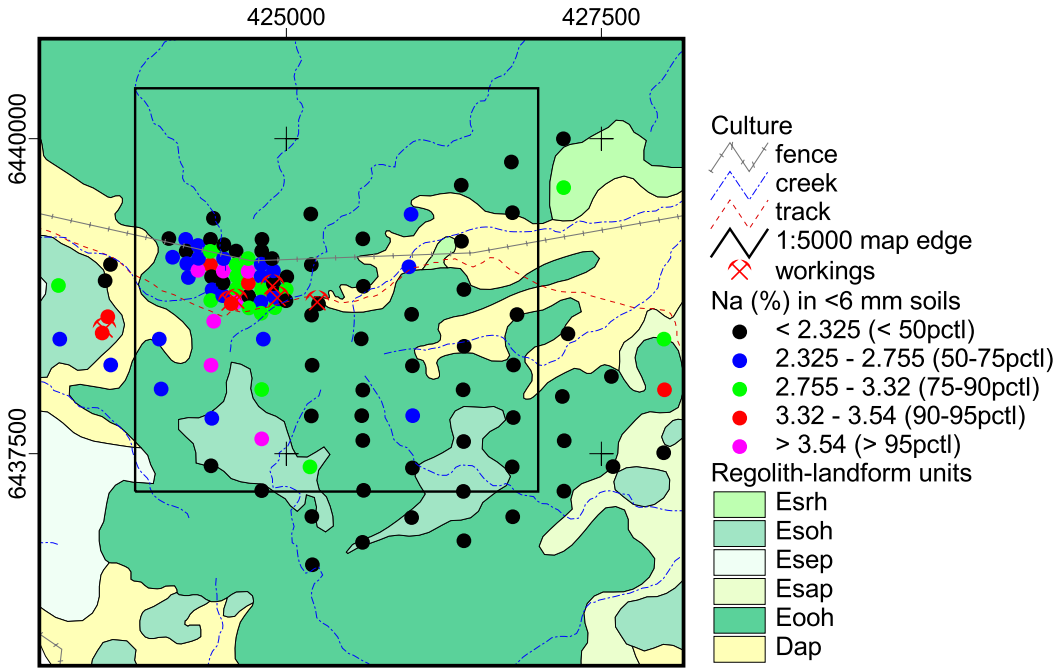


Figure A2.4.30. Distribution of Na (%) in <6 mm soils

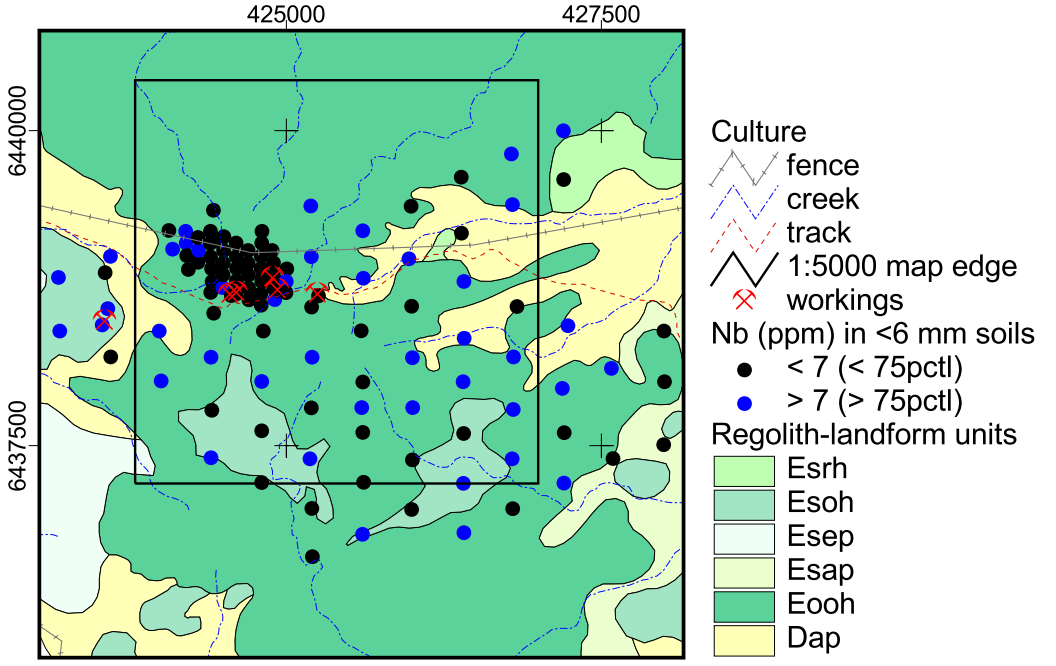


Figure A2.4.31. Distribution of Nb (ppm) in <6 mm soils

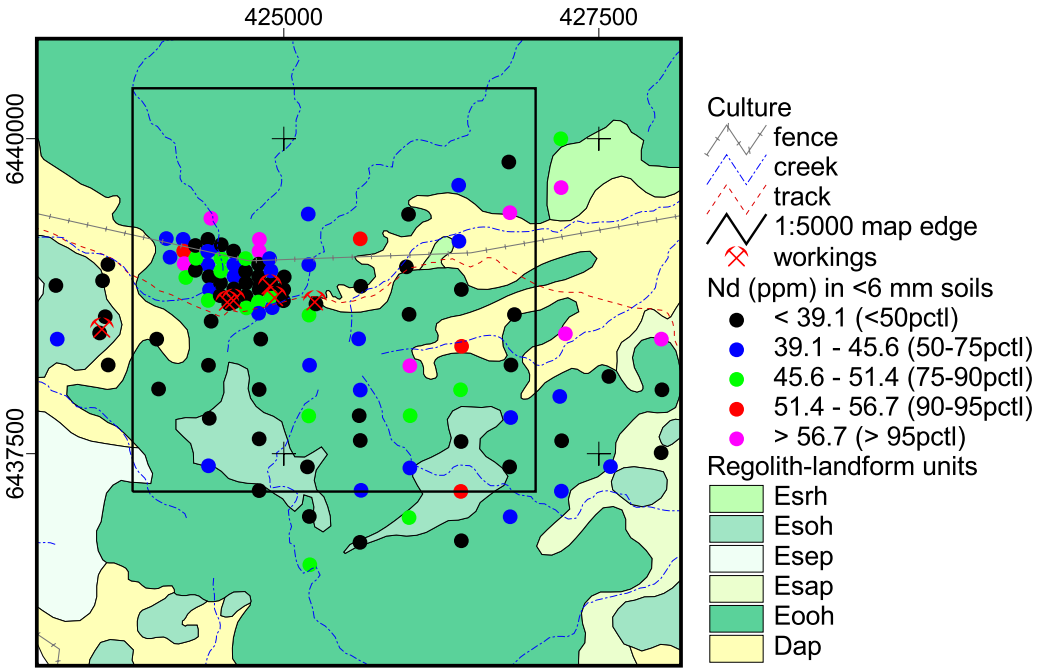


Figure A2.4.32. Distribution of Nd (ppm) in <6 mm soils

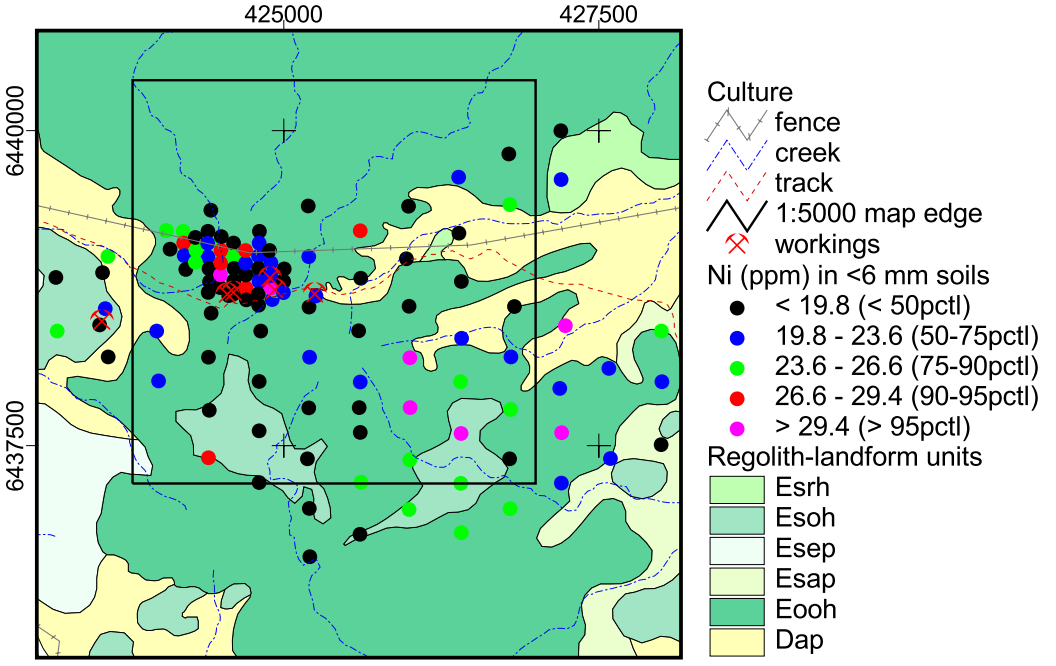


Figure A2.4.33. Distribution of Ni (ppm) in <6 mm soils

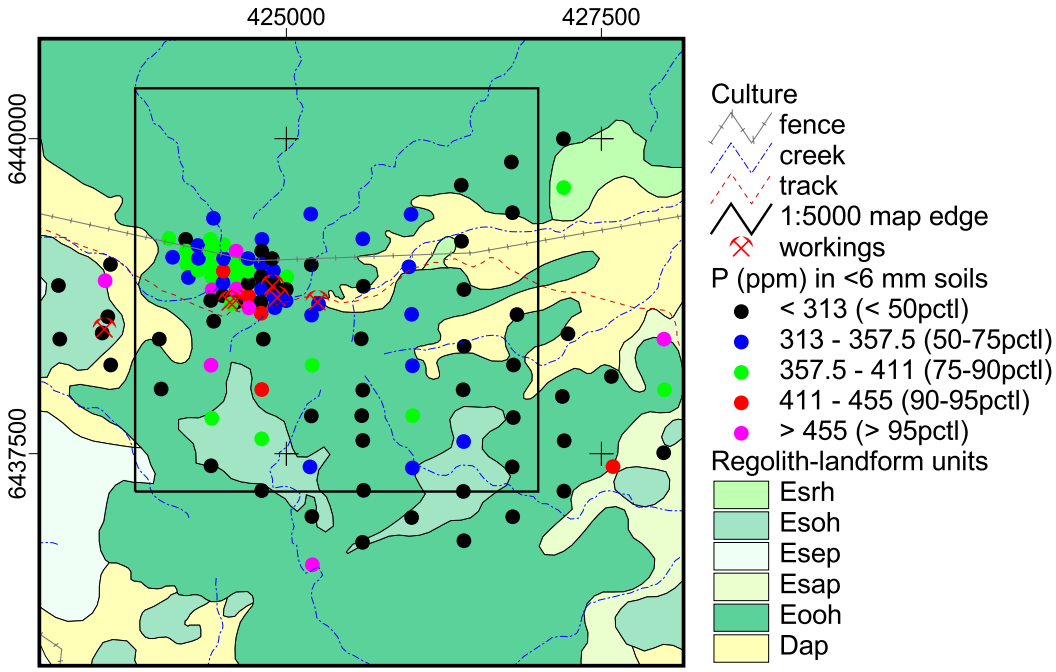


Figure A2.4.34. Distribution of P (ppm) in <6 mm soils

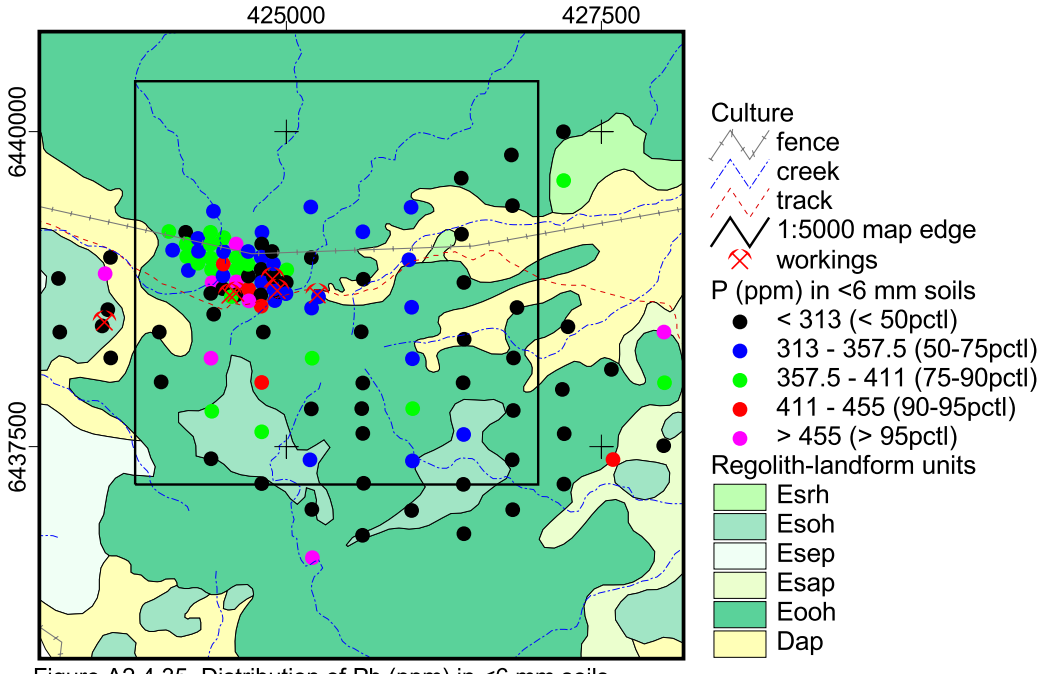


Figure A2.4.35. Distribution of Pb (ppm) in <6 mm soils

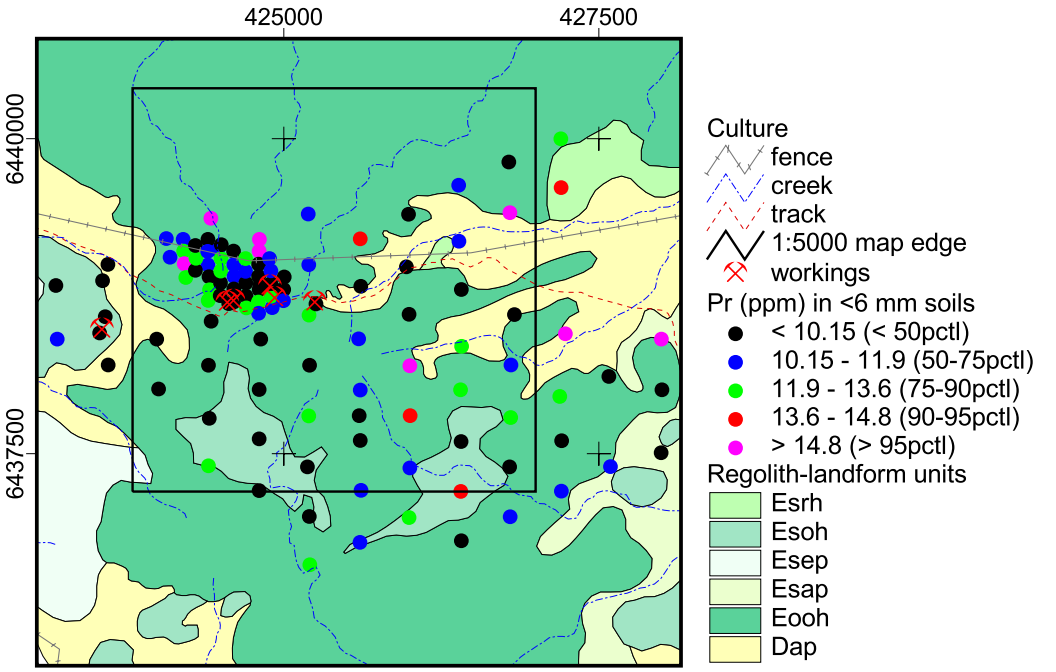


Figure A2.4.36. Distribution of Pr (ppm) in <6 mm soils

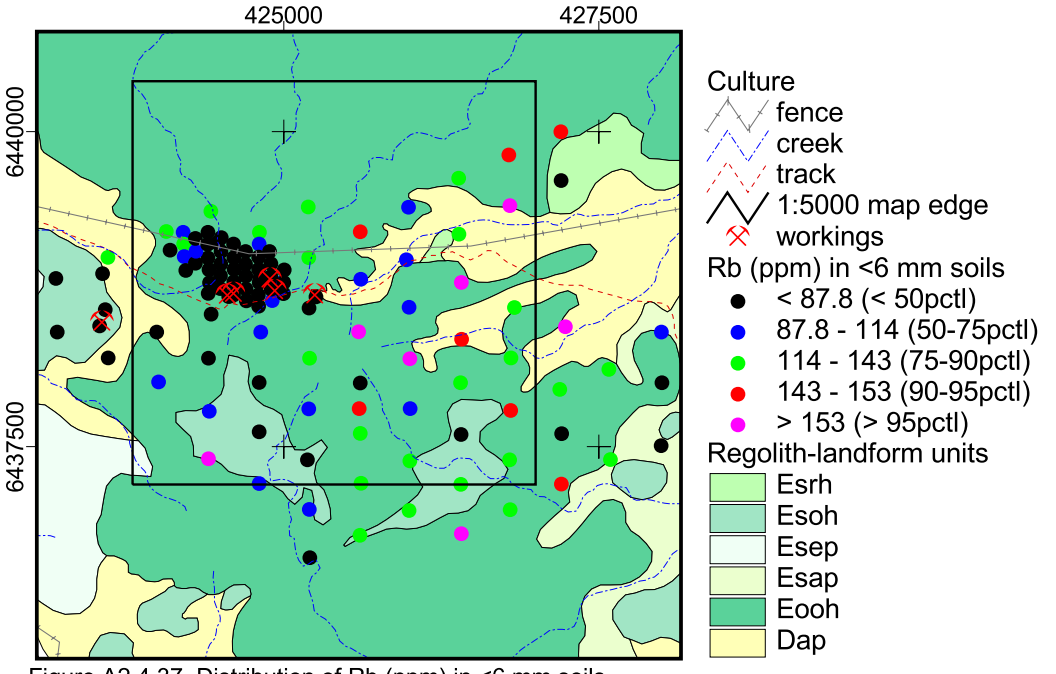


Figure A2.4.37. Distribution of Rb (ppm) in <6 mm soils

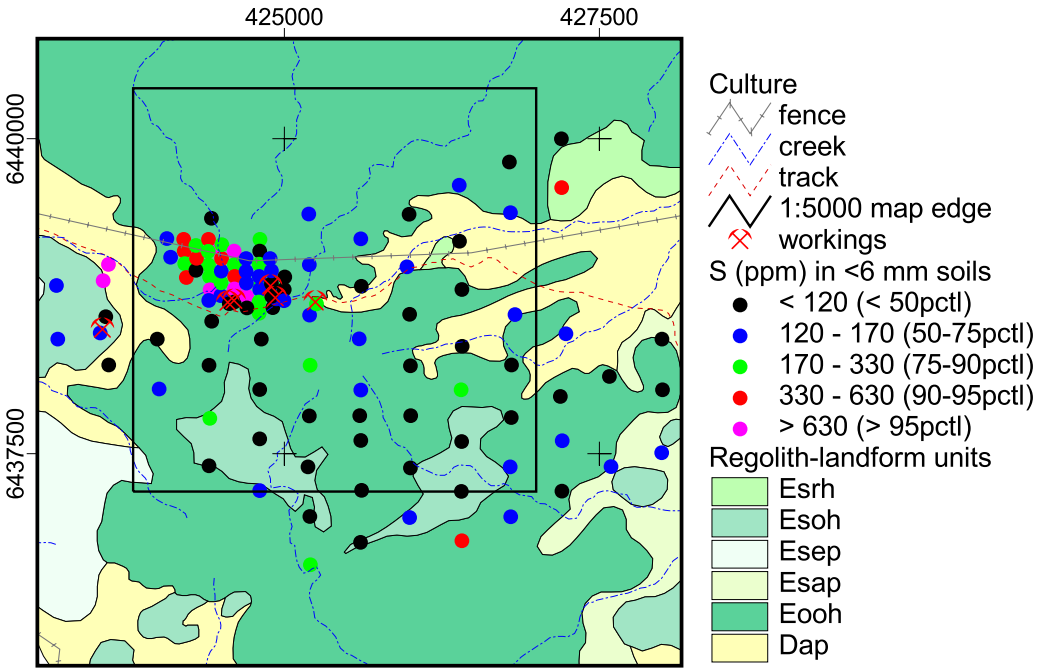


Figure A2.4.38. Distribution of S (ppm) in <6 mm soils

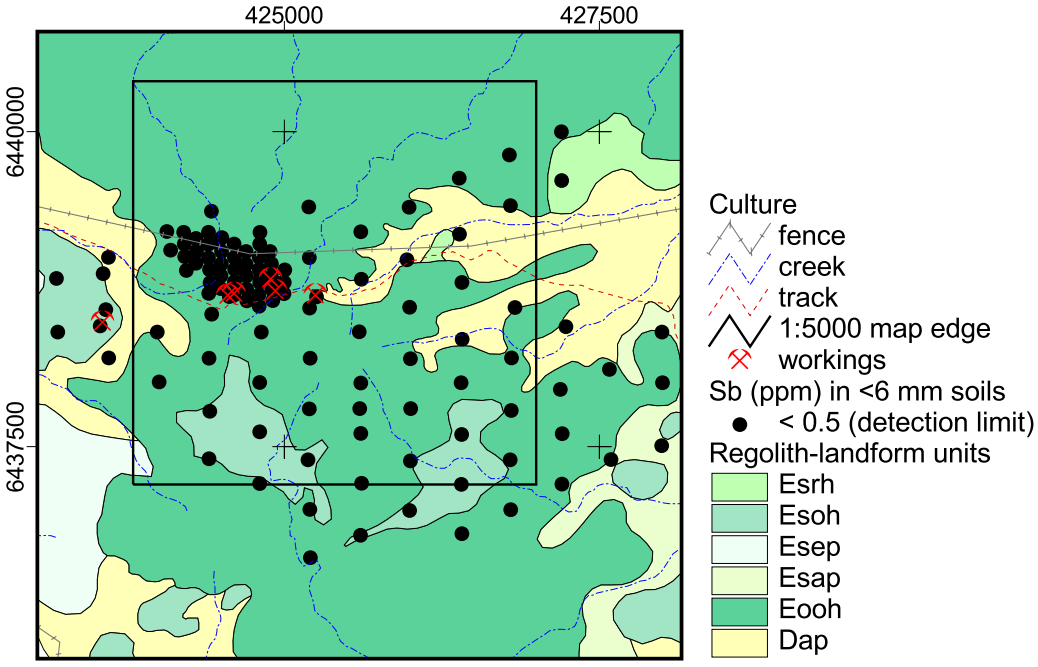


Figure A2.4.39. Distribution of Sb (ppm) in <6 mm soils

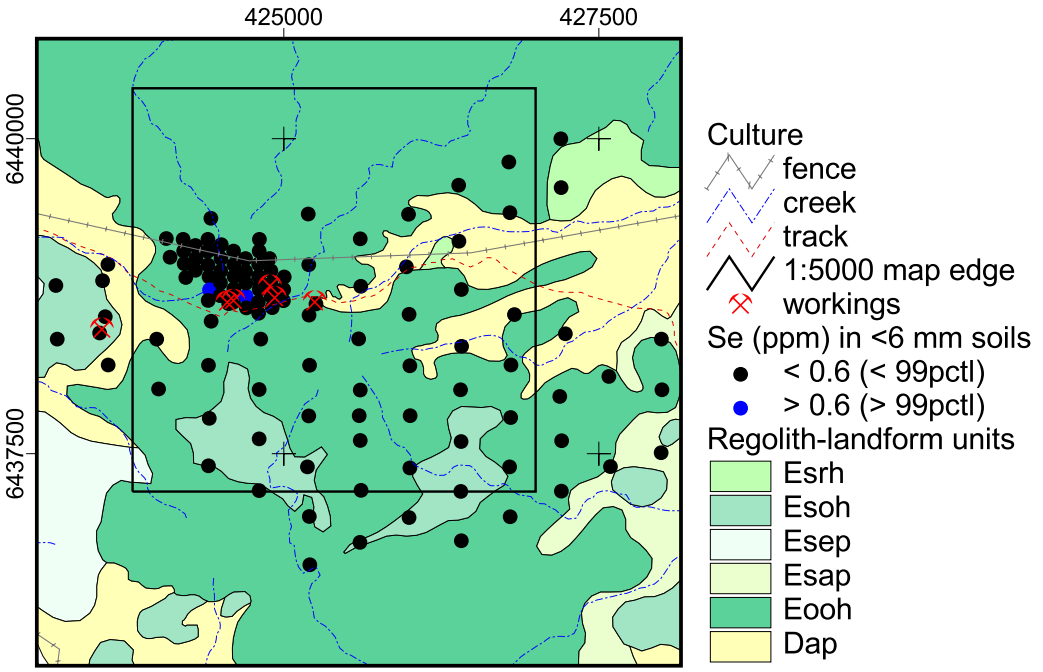


Figure A2.4.40. Distribution of Se (ppm) in <6 mm soils

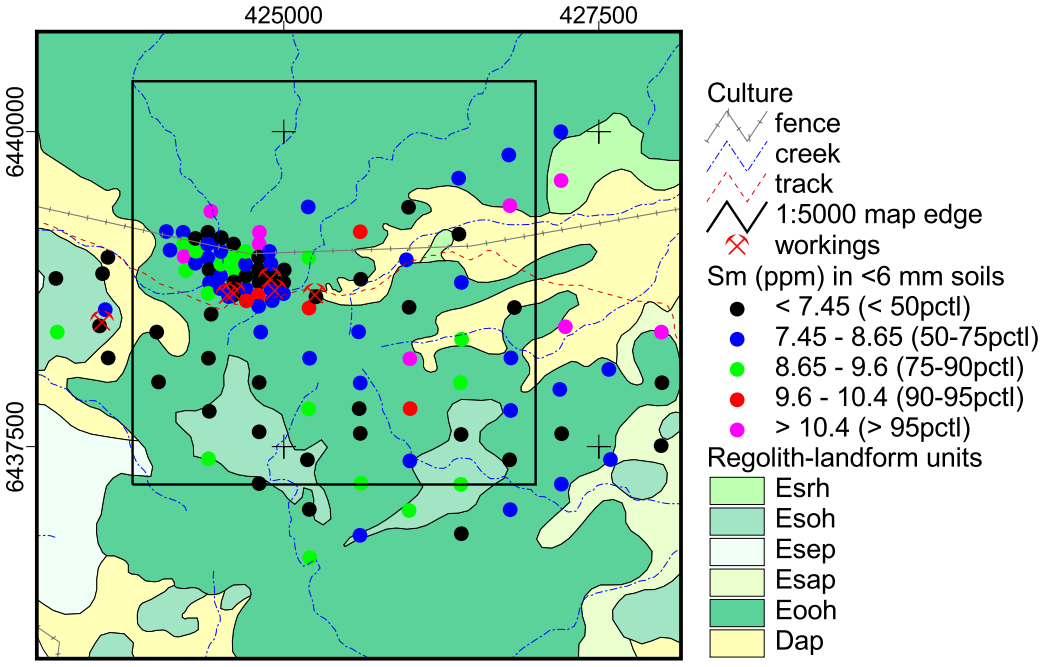


Figure A2.4.41. Distribution of Sm (ppm) in <6 mm soils

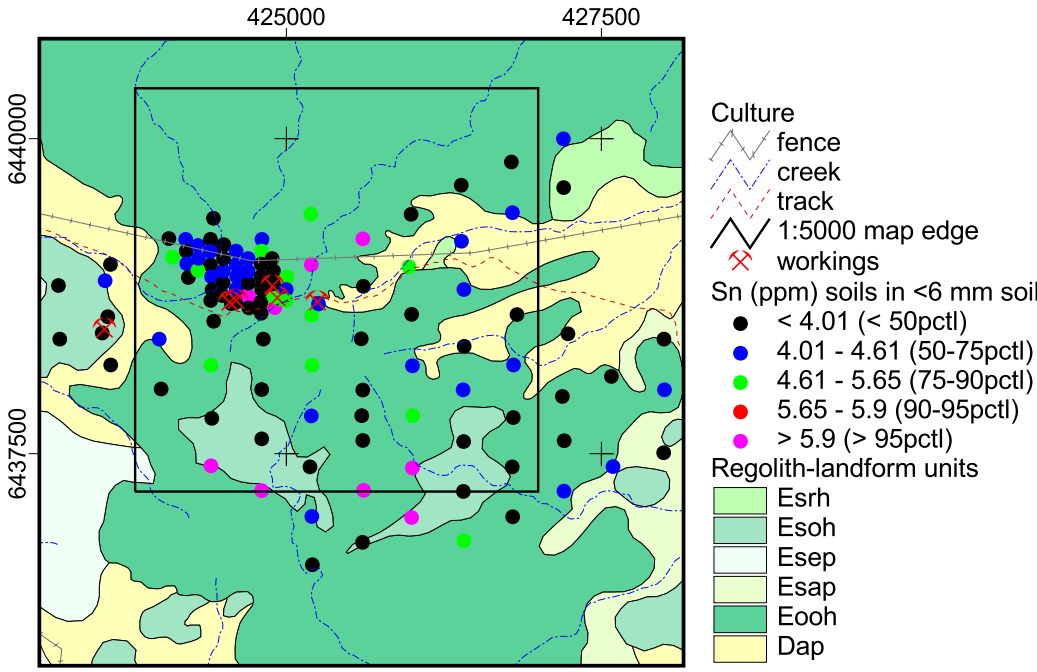


Figure A2.4.42. Distribution of Sn (ppm) in <6 mm soils

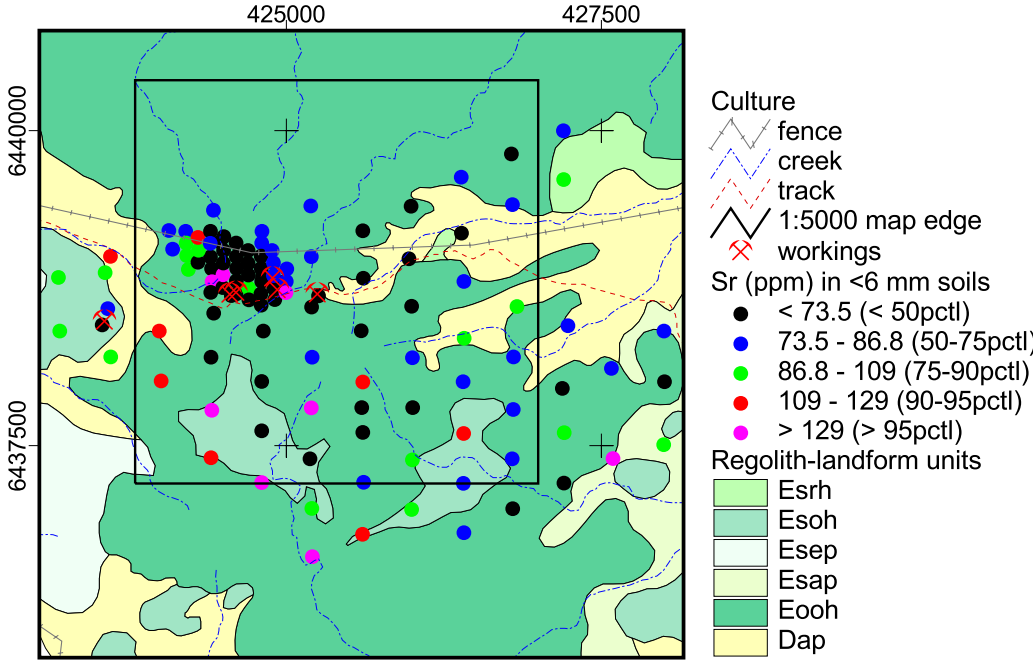


Figure A2.4.43. Distribution of Sr (ppm) in <6 mm soils

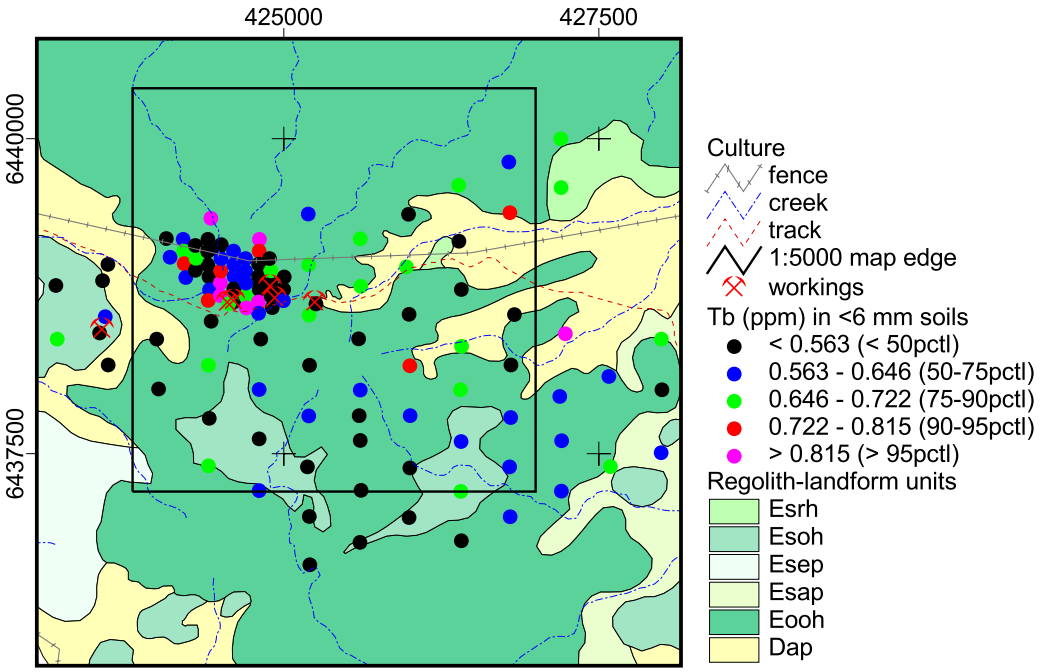


Figure A2.4.44. Distribution of Tb (ppm) in <6 mm soils

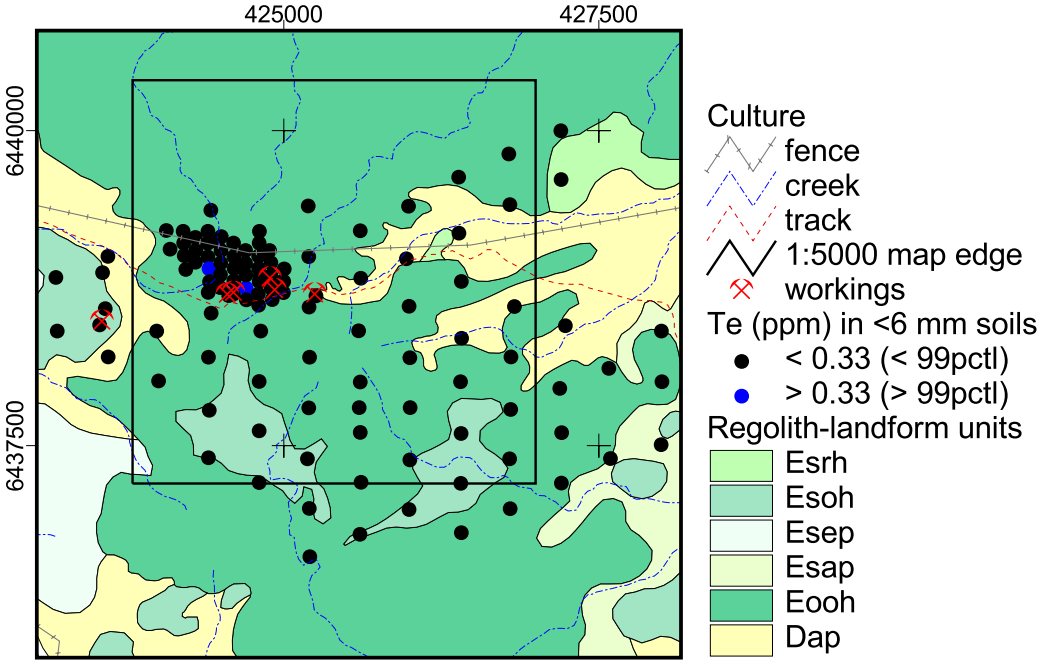


Figure A2.4.45. Distribution of Te (ppm) in <6 mm soils

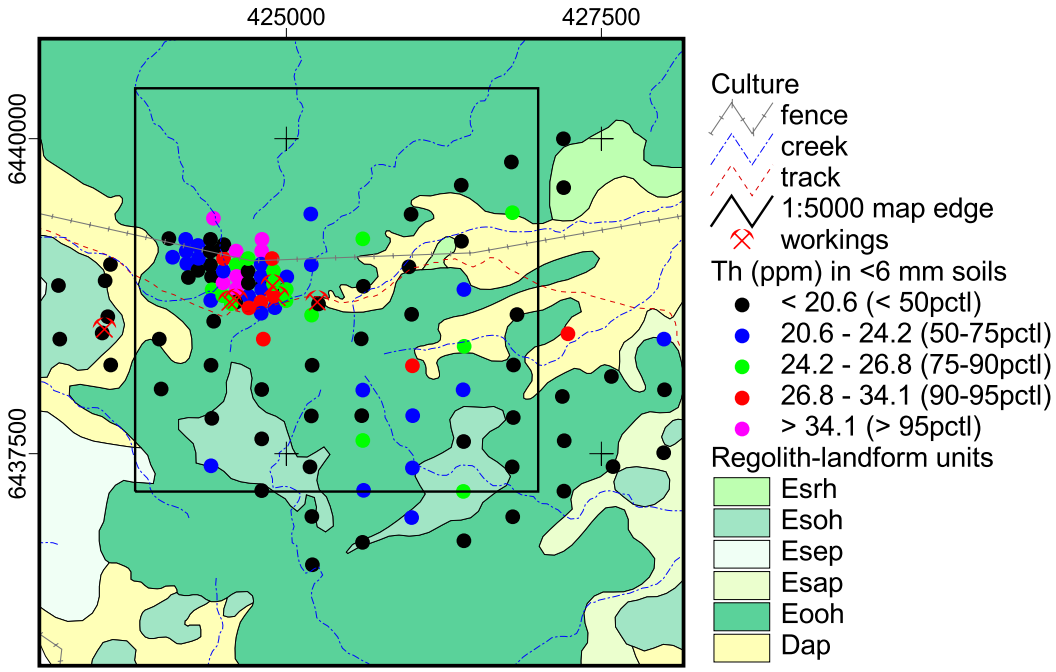


Figure A2.4.46. Distribution of Th (ppm) in <6 mm soils

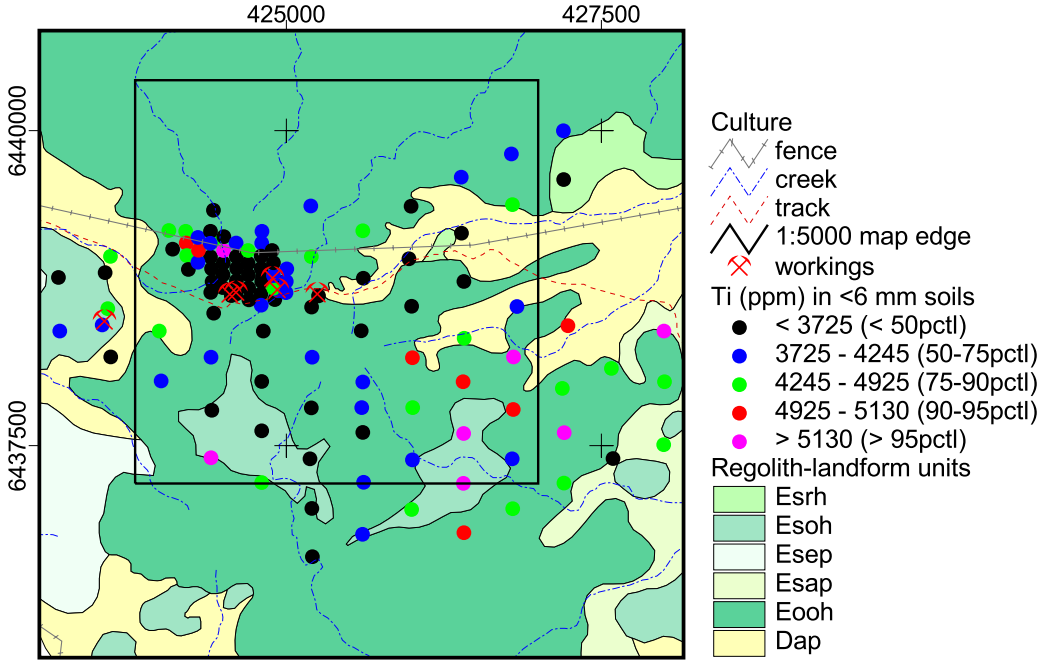


Figure A2.4.47. Distribution of Ti (ppm) in <6 mm soils

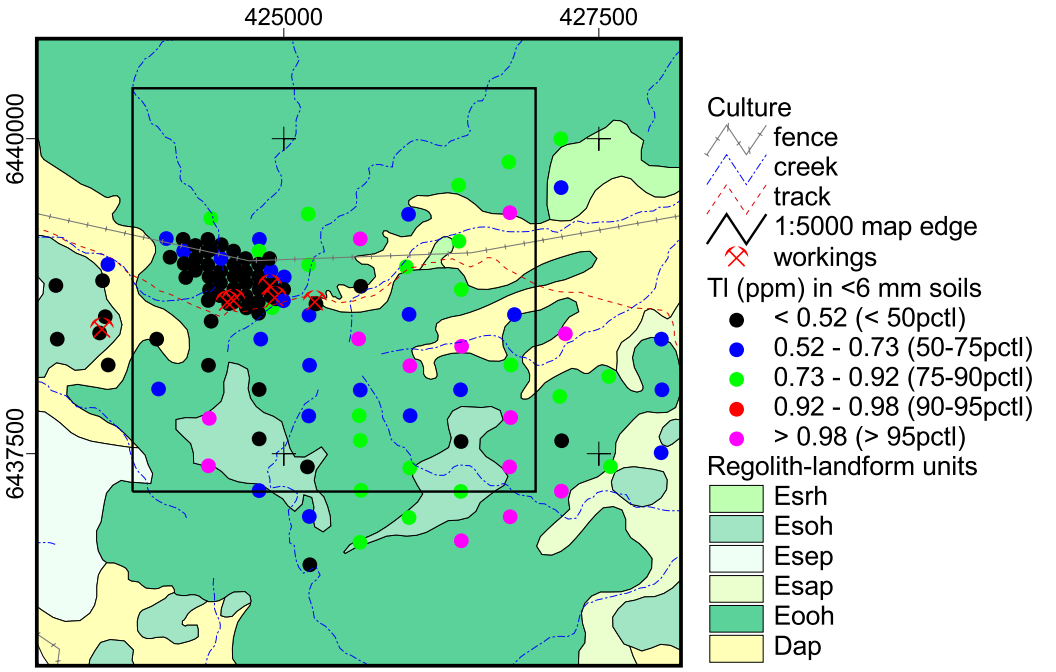


Figure A2.4.48. Distribution of Tl (ppm) in <6 mm soils

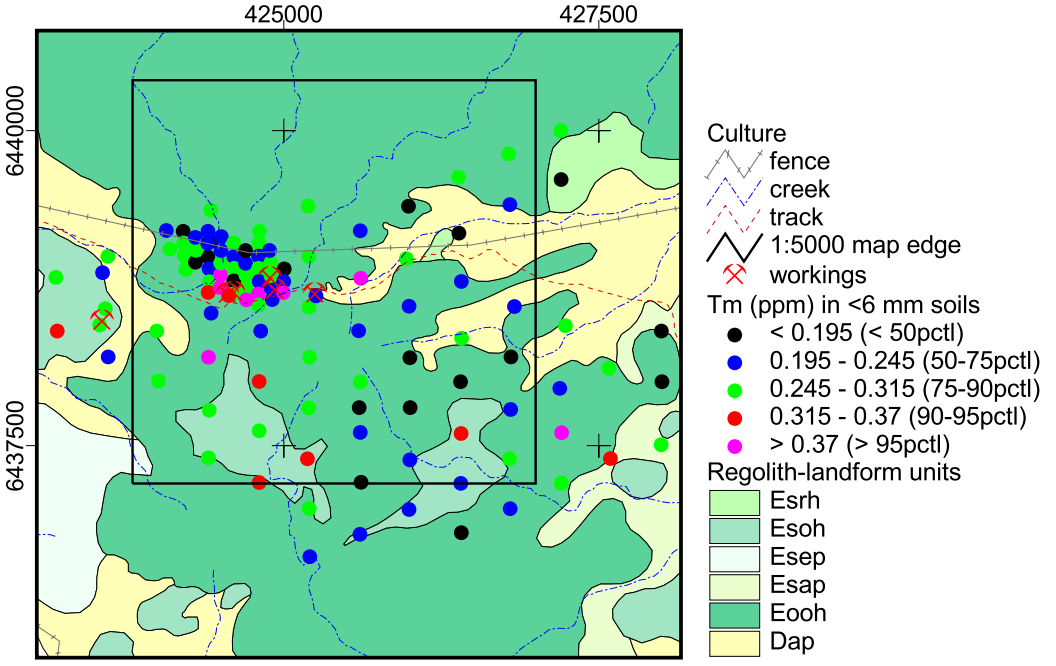


Figure A2.4.49. Distribution of Tm (ppm) in <6 mm soils

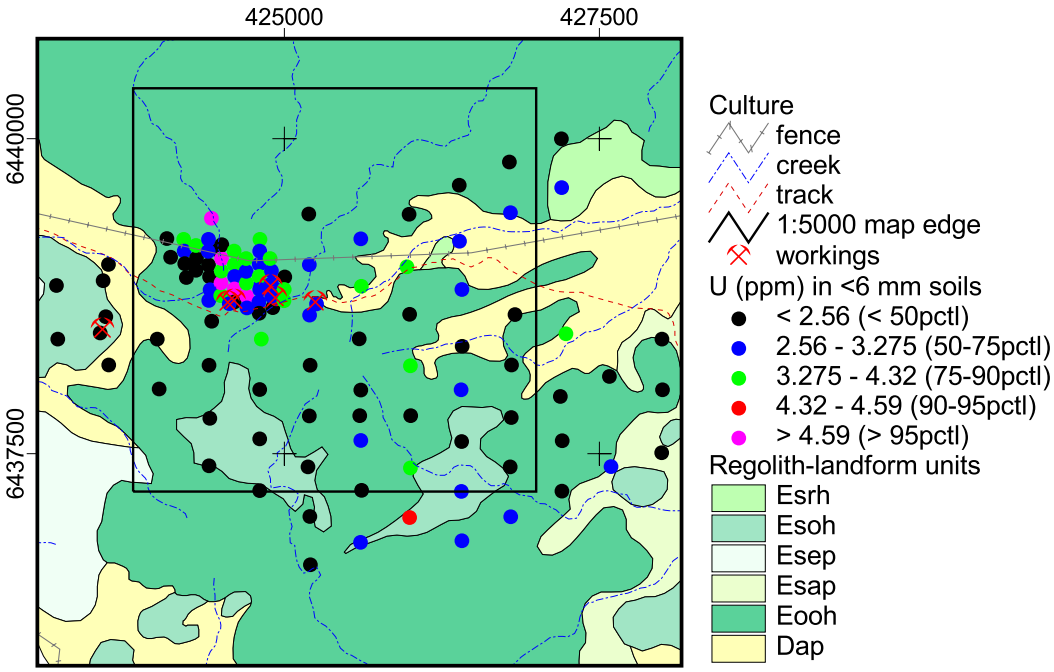


Figure A2.4.50. Distribution of U (ppm) in <6 mm soils

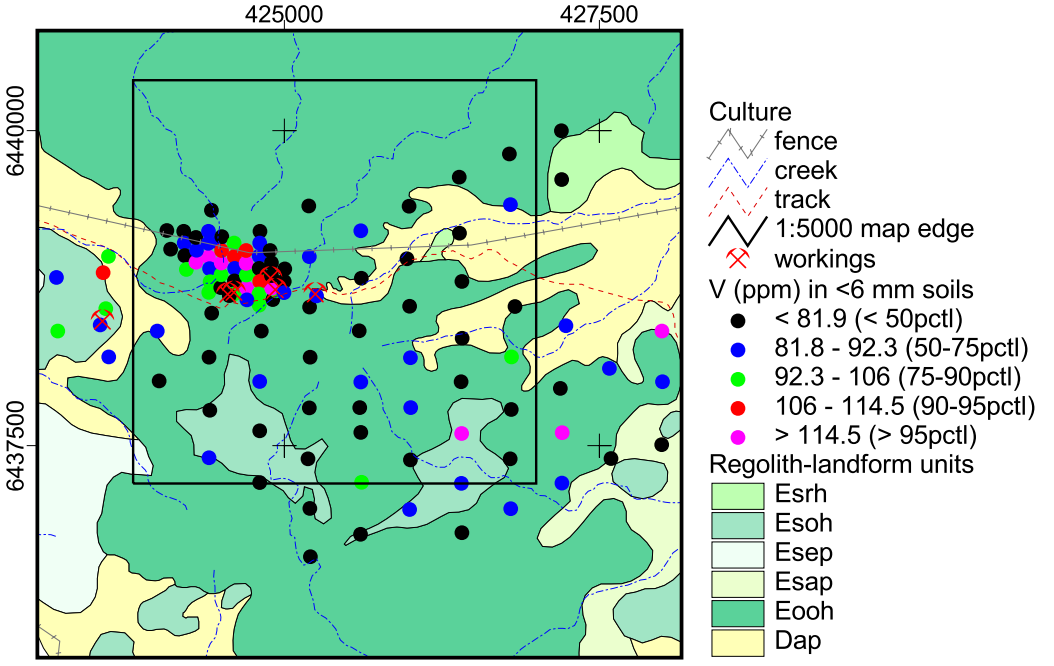


Figure A2.4.51. Distribution of V (ppm) in <6 mm soils

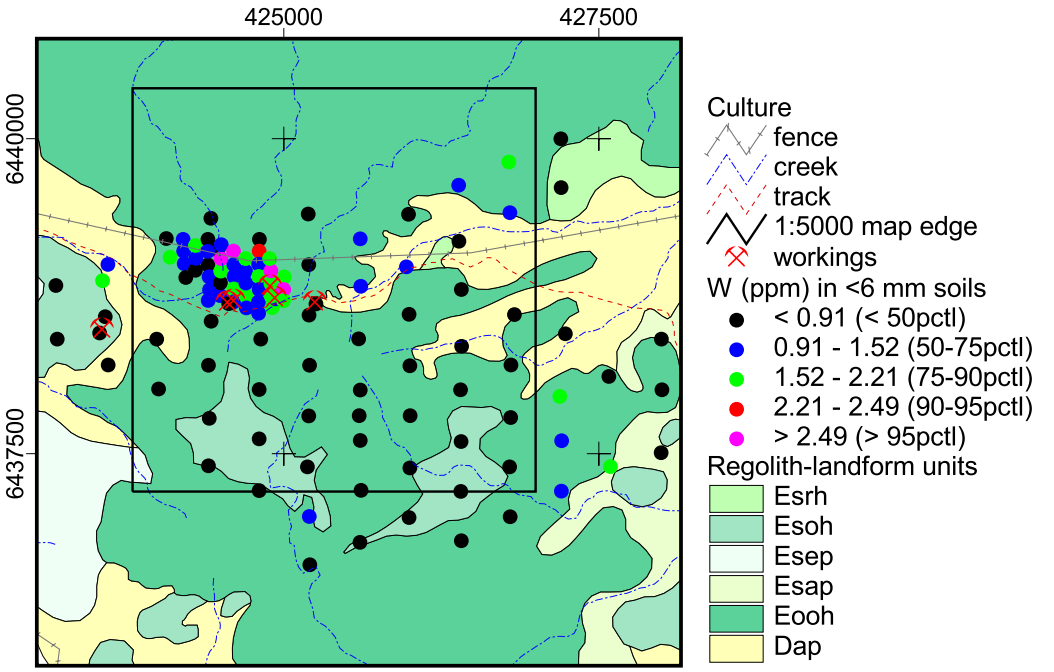


Figure A2.4.52. Distribution of W (ppm) in <6 mm soils

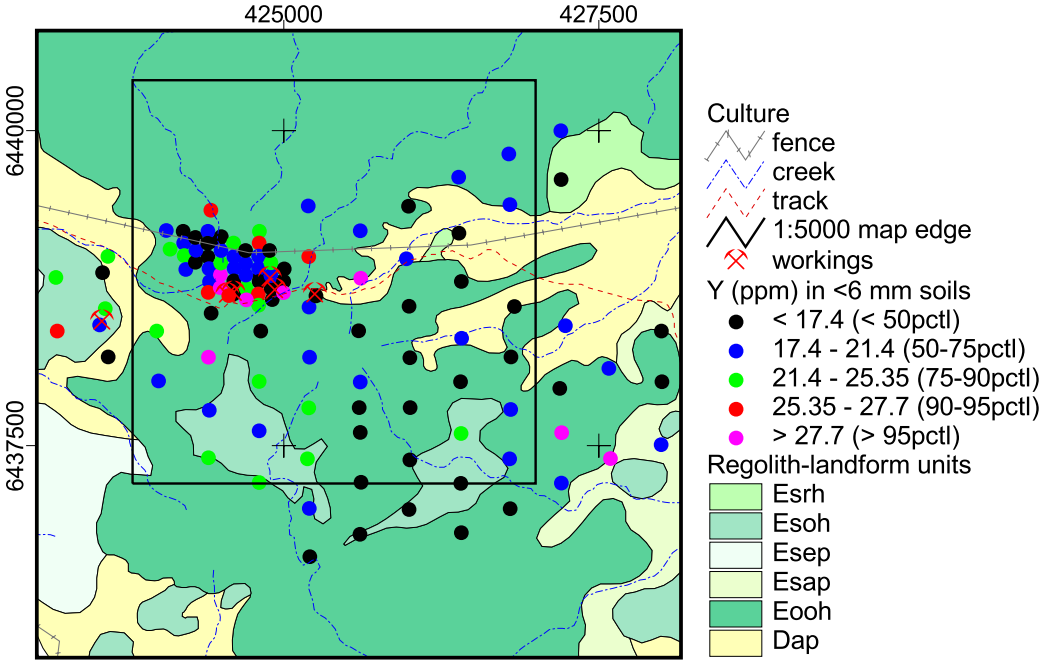


Figure A2.4.53. Distribution of Y (ppm) in <6 mm soils

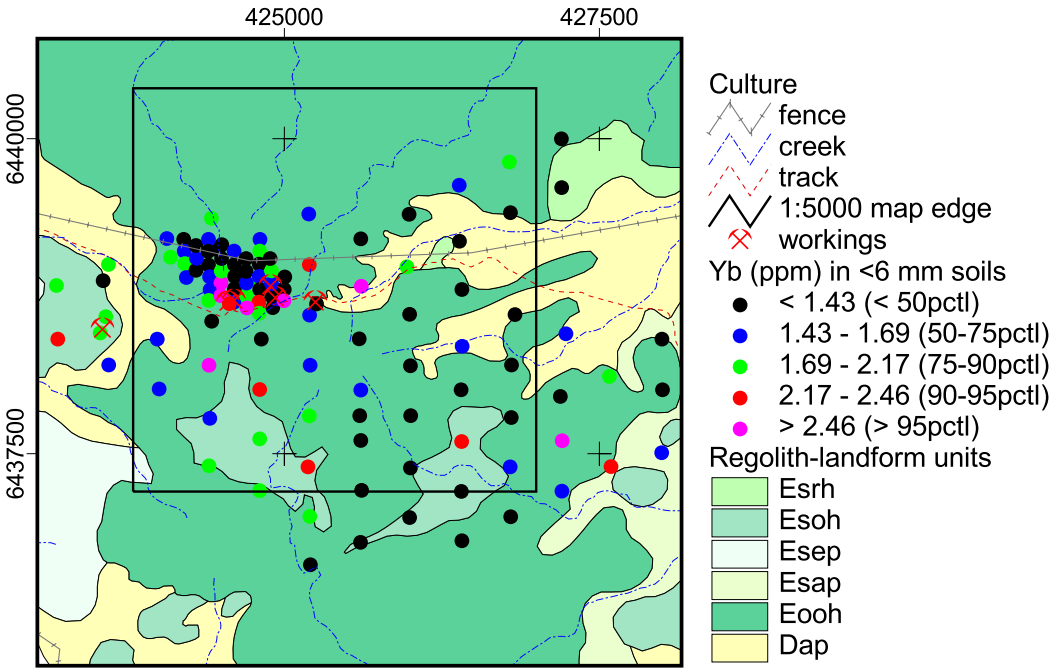


Figure A2.4.54. Distribution of Yb (ppm) in <6 mm soils

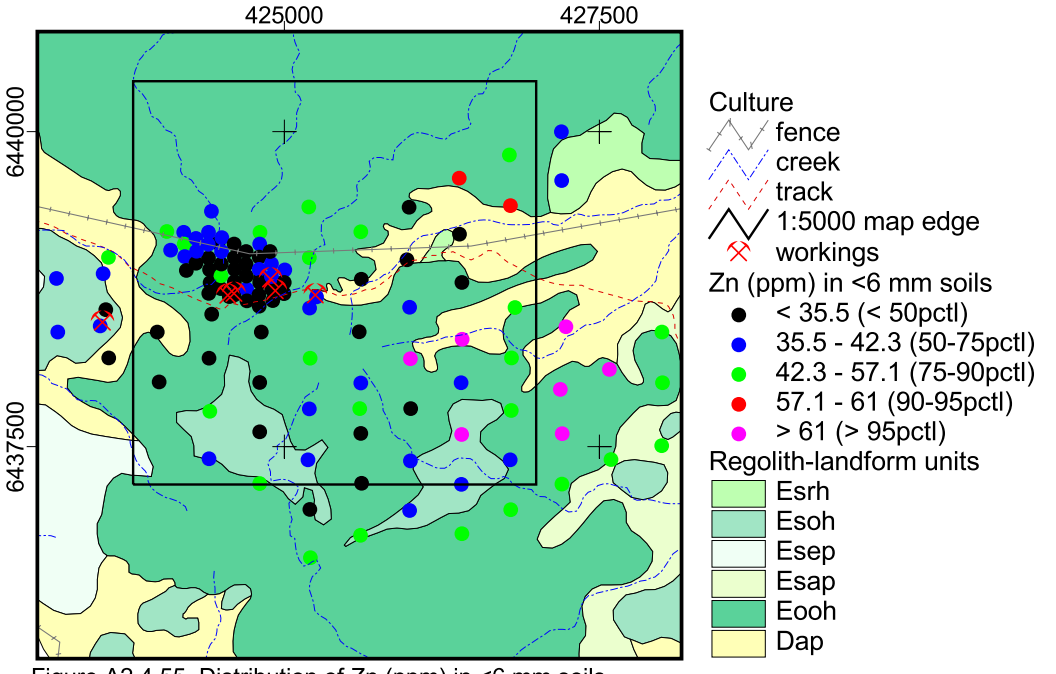


Figure A2.4.55. Distribution of Zn (ppm) in <6 mm soils

Appendix 2.5
Analyses of rock-chip samples

Appendix 2.5

Faugh-a-Ballagh rock chips

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Hg	Ho	In	K			
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E			
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.05	0.02	0.05	10			
Sample_no	Field_no	Northing	Easting	Error	Description																												
R448400	FABR1	6438688	425245	3.5	ironstone' sample with minor malachite staining from dump around shaft	1.1	14800	10.5	200	220	175	2.7	650	-0.1	7.5	150	23	4.2	7950	1.7	1.2	0.26	330000	8.5	1.15	1	-0.05	0.35	0.2	7450			
R448401	FABR2	6438722	424928	3.9	magnetite-rich ironstone from shallow prospecting pit	0.2	1700	1.5	9		45	1	210	-0.1	7	46	18	0.4	650	0.31	0.15	0.15	501000	12.5	0.45	-1	-0.05	0.04	0.1	1600			
R448402	FABR3	6438757	424938	3.9	thin magnetite vein in felsic schist (assoc. with thin qz veinlets striking 227)	0.3	32700	2.5	2		260	0.4	600	-0.1	16	28	13	0.4	420	0.63	0.3	0.31	363000	24.5	0.85	2	-0.05	0.1	0.1	14300			
R448403	FABR4	6438748	424933	3.5	magnetite vein with common malachite; partly o/c and partly s/c; vein strikes 277	0.8	4250	-0.5	24		40	4.4	300	-0.1	5	52	-2	0.2	21300	0.57	0.2	0.23	537000	13.5	0.75	-1	-0.05	0.09	0.5	1900			
R448404	FABR5	6438741	424938	3.9	magnetite-rich ironstone, locally with malachite	0.4	1600	1.5	36		35	2.9	210	-0.1	8	95	-2	0.1	17300	0.48	0.2	0.17	528000	11	0.55	-1	-0.05	0.08	0.2	1100			
R448405	FABR6	6438739	424936	3.6	magnetite-bearing ironstone with abundant saccharoidal quartz; locally with malachite and relict sulphides	0.7	2600	0.5	20		95	1.1	250	-0.1	8	69	5	0.1	1700	0.32	0.15	0.13	422000	10	0.35	-1	-0.05	0.05	0.1	1400			
R448406	FABR7	6438764	424916	4	magnetite-bearing ironstone vein (up to 25 cm wide), assoc with qz veinlets in felsic rock	0.2	4250	1.5	2		120	1.6	410	-0.1	6.5	13	-2	0.2	490	0.24	0.1	0.14	579000	16	0.35	-1	-0.05	0.04	0.1	5000			
R448407	FABR8	6438770	424889	4	magnetite-bearing ironstone veinlets in felsic rock	0.5	2500	-0.5	18		65	1	420	-0.1	8.5	31	21	-0.1	550	0.19	0.1	0.13	550000	10	0.35	-1	-0.05	0.03	0.1	1200			
R448408	FABR9	6438761	424826	3.7	two magnetite-bearing ironstone veins (up to 30 cm wide) with minor magnetite veining in felsic rock and malachite and azurite in assoc. qz veinlets	0.4	3100	1.5	8		300	2.6	350	-0.1	8	84	14	0.2	800	0.44	0.2	0.26	572000	20	0.6	-1	-0.05	0.07	0.1	3050			
R448409	FABR10	6438787	424834	3.6	magnetite-bearing ironstone; up to 50 cm wide	0.2	1550	1	12		370	1.9	750	-0.1	4.5	66	7	0.1	280	0.93	0.4	0.36	535000	12	1.2	-1	-0.05	0.16	0.1	1050			
R448410	FABR11	6438855	424869	3.9	magnetite-rich ironstone with malachite and azurite staining; from shallow prospecting pit	1	9000	0.5	30		80	1.8	700	-0.1	31.5	31	4	0.7	45200	2.5	1.15	0.64	361000	17	2.9	-1	-0.05	0.43	0.4	5300			
R448411	FABR12	6438815	424890	5	magnetite ironstone vein (10-15 cm wide), with weathered sulphides, malachite and azurite, in pegmatitic felsic rock; from prospecting pit	2.1	1800	-0.5	220	300	40	1.4	1500	0.1	7	58	-2	0.2	22100	1.25	0.5	0.24	570000	14	1.25	-1	-0.05	0.21	0.3	2150			
R448412	FABR13	6438720	424946	5.2	magnetite-bearing ironstone vein in felsic rock	0.3	21000	0.5	2		210	0.2	1000	-0.1	10	41	23	0.2	420	0.54	0.25	0.3	483000	17	0.85	3	-0.05	0.1	-0.05	4450			
R448413	FABR14	6438748	424877	3.7	mgt-rich vein (20 cm) in granite	0.3	3800	0.5	10	12	250	1.6	600	-0.1	3	57	9	0.1	950	0.21	0.1	0.18	578000	16.5	0.25	-1	-0.05	0.04	0.1	2700			
R448414	FABR15	6438759	424874	4.5	mgt vein (30-40 cm) in pegmatite/granite	0.1	1150	0.5	-1		190	0.4	400	-0.1	3	56	34	-0.1	100	0.22	0.1	0.13	591000	19	0.25	-1	-0.05	0.03	-0.05	1050			
R448415	FABR16	6438832	424739	4.8	mgt veinlets in reddened, apilitic granite	0.5	16700	-0.5	-1		130	0.7	700	-0.1	21.5	29	6	-0.1	50	1.3	0.85	0.43	465000	21	1.4	6	-0.05	0.25	-0.05	1350			
R448416	FABR17	6438798	424629	3.9	ironstone (2-3m wide) on ridge crest ; associated with mgt veinlets in adj. sericitic granite	0.2	1850	1	10		25	1	550	-0.1	2.5	105	12	-0.1	13	4.1	1.8	0.75	582000	14	4.2	-1	-0.05	0.68	-0.05	1550			
R448417	FABR18	6438965	424749	4.5	dissem. mgt in granite	-0.1	3550	1.5	3		650	2.4	650	-0.1	5	68	12	-0.1	7	1	0.5	0.42	563000	20	0.9	-1	-0.05	0.18	-0.05	8250			
R448418	FABR19	6438958	424771	4.7	mgt vein in coarse-gnd granite	0.2	6900	1.5	-1		210	0.3	490	0.4	2.5	43.5	12	-0.1	5	0.32	0.15	0.15	562000	17	0.35	1	-0.05	0.06	-0.05	1950			
R448419	FABR20	6438946	424767	4.4	dissem. mgt in pegmatite adj. to sheared granite																												
R448420	FABR21	6438778	424764	4.3	mgt veinlets in apilitic granite	0.2	6900	1.5	-1		210	0.3	490	0.4	2.5	43.5	12	-0.1	5	0.32	0.15	0.15	562000	17	0.35	1	-0.05	0.06	-0.05	1950			
R448421	FABR22	6438870	423549	4.6	siliceous ironstone with dissem ?mgt	0.1	5300	2	13		120	4.1	2850	-0.1	12	20	23	-0.1	10	0.61	0.25	0.3	257000	6	1.15	-1	0.1	0.1	-0.05	800			
R448422	FABR23	6438998	423564	5.1	cg mgt-bearing ironstone assoc with qz-musc veining and sheared felsic rock	-0.1	4350	0.5	-1		330	0.2	900	-0.1	6	72	4	0.2	10	0.8	0.45	0.37	615000	15.5	0.8	-1	-0.05	0.16	-0.05	800			
R448423	FABR24	6439032	423534	4	siliceous ironstone with dissem ?mgt	-0.1	6100	1	4		125	0.5	1050	-0.1	1.5	63	4	-0.1	8	0.15	0.1	0.1	323000	8.5	0.2	-1	-0.05	0.03	-0.05	2300			
R448424	FABR25	6438472	423557	4.7	malachite and azurite staining of felsic rock with qv, Fe oxide veining (?after mgt) and dissem Fe oxides after sulphides; from old working	0.2	53100	2	49	38	340	0.4	3250	-0.1	150	44	42	0.2	5000	2.7	1.2	1.8	69200	19.5	7	4	-0.05	0.4	0.6	8600			
R448425	FABR26	6438590	423188	3.7	ironstone vein with mgt and qv	0.1	4900	3	1	2	180	2.2	1550	-0.1	6.5	270	7	0.1	71	0.94	0.55	0.31	461000	7.5	0.95	-1	-0.05	0.17	-0.05	480			
R448426	FABR27	6438584	423581	3.6	silceous rock with mgt veining and malachite-azurite staining	2.4	54700	2	64	78	1200	0.7	2700	0.1	140	74	64	0.5	42700	4.8	2	2.8	223000	21	10	19	0.1	0.69	1.65	20800			
R448427	FABR28	6438733	423719	3.5	amphibole-epidote-mgt rock, locally with qv	0.2	45400	7	1		30	0.7	89300	-0.1	7.5	36.5	18	0.1	160	4.9	2.9	0.69	160000	13	3.5	2	-0.05	0.99	0.4	1850			
R448428	FABR29	6439113	424473	3.7	chertly qv with dissem pyr in mg qz-feldspar-biotite rock with mgt veinlets	-0.1	38500	1.5	8		130	1.6	2200	-0.1	4	155	21	-0.1	87	3.9	1.75	0.84	123000	9.5	4.2	1	-0.05	0.69	-0.05	1000			
R448429	FABR30	6438837	424810	3.6	malachite-azurite staining on mgt-rich ironstone; locally with fresh chalcopyrite and recrystallised mgt in siliceous matrix	0.4	4800	0.5	9		40	1.1	1600	-0.1	4	33	16	0.1	12200	0.41	0.2	0.15	391000	7	0.6	-1	-0.05	0.07	0.15	850			
R448430	FABR31	6438701	424601	4.5	quartzofeldspathic rock with dissem mgt and malachite staining; from old working	0.4	65300	-0.5	8		5	0.5	3600	-0.1	9	3.6	43	0.1	8200	0.89	0.5	0.28	67400	22.5	1.2	4	-0.05	0.15	0.4	450			
R448431	FABR32	6438685	424551	4.4	fg siliceous rock with malachite staining and dissem mgt; qv	13.5	35700	3	100		490	0.6	3550	0.1	40.5	10.5	23	0.5	56200	19	10	3.4	193000	9.5	16	10	0.45	3.7	0.95	21200			
R448432	FABR33	6438711	424997	3.2	mgt veinlet with malachite staining and qv in fg siliceous rock; minor azurite	0.3	20600	-0.5	33		200	0.8	4450	-0.1	60	66	13	0.3	6900	5.5	3.3	1.5	457000	25	6.5	2	-0.05	1.1	0.15	4700			

Element	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3M	IC3E
LLD	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																	
R448400	4	0.32	6250	140	9.5	230	10	3.6	33	1450	15	-20	0.85	-0.2	72	2850	-0.5	15	1.1	3.2	70	0.18	1.2	11	850	0.8	0.2	49.5	54	7.5	10.5	1.9	58
R448401	4.5	0.03	750	410	6	130	5	3.1	22	135	5	-20	0.8	-0.2	11	150	-0.5	0.5	0.67	10.5	3.7	0.05	-0.2	2.4	350	0.2	-0.05	5.5	96	3.6	1.25	0.2	44
R448402	10.5	0.07	1600	195	2.3	10200	10	5.5	21	260	-5	-20	1.5	-0.2	70	100	-0.5	0.5	1.2	9.5	21	0.1	-0.2	12	1100	0.4	0.05	22	120	5	3.1	0.45	22
R448403	3	0.04	750	470	4.2	2000	5	2.3	54	300	-5	-20	0.55	-0.2	11	350	-0.5	1	0.76	11	5.5	0.09	0.2	1.35	260	0.1	-0.05	21.5	78	2.3	2.2	0.25	67
R448404	4	0.03	420	440	6.5	105	-5	3.3	66	130	10	-20	0.85	-0.2	6	250	-0.5	2	0.72	13	3.3	0.08	0.3	2.5	130	-0.1	-0.05	12.5	48	2.7	1.7	0.25	46
R448405	2	0.02	600	310	6	650	-5	1.7	49	140	5	-20	0.45	-0.2	9	1100	-0.5	2	0.44	8	5.5	0.04	-0.2	2.1	165	-0.1	-0.05	8.5	45	2.5	1.25	0.15	30
R448406	3.5	-0.02	550	200	3.8	320	5	2.2	44	270	5	-20	0.6	-0.2	21.5	300	-0.5	2	0.53	15.5	16	0.04	-0.2	7	190	0.2	-0.05	8	79	1.5	1.1	0.1	17
R448407	5	0.02	280	220	6	2000	5	2.8	42	100	-5	-20	0.8	-0.2	5.5	350	-0.5	1.5	0.57	11.5	6.5	0.03	0.3	2.2	230	-0.1	-0.05	3.7	140	1.5	0.9	0.1	21
R448408	4.5	0.03	460	250	3.4	600	10	3.3	76	210	15	-20	0.85	-0.2	15.5	300	-0.5	2.5	0.98	9	12	0.07	0.2	7	310	0.1	-0.05	10	82	1.3	1.85	0.2	27
R448409	2.5	0.05	500	240	4	950	10	3.3	52	170	10	-20	0.65	-0.2	8	800	-0.5	3	1.45	13.5	20	0.14	0.6	1.95	270	-0.1	-0.05	3.2	66	0.6	4.3	0.3	31
R448410	22	0.19	5200	700	2.3	650	-5	13	41	115	15	-20	3.3	-0.2	41.5	250	-0.5	1.5	2.8	10.5	9	0.36	0.4	1.75	350	0.4	0.15	11.5	49	1.7	12	1.2	63
R448411	5	0.07	800	350	2	85	10	3.7	61	10	10	-20	0.85	-0.2	12.5	650	-0.5	2	1.15	7.5	6	0.18	0.2	0.6	160	0.1	0.05	9	86	2.3	6	0.45	32
R448412	8.5	0.06	1150	390	1.8	13500	5	5	12	155	-5	-20	1.3	-0.2	23	150	-0.5	-0.5	1.15	12.5	27.5	0.1	-0.2	9.5	800	0.1	-0.05	2.7	210	2.8	3.4	0.35	35
R448413	2	-0.02	600	290	5.5	800	10	1.2	52	135	10	-20	0.3	-0.2	12.5	750	-0.5	3.5	0.42	22.5	12.5	0.03	-0.2	2.8	290	-0.1	-0.05	5.5	86	1.9	1.15	0.15	36
R448414	2	-0.02	230	175	10	1250	-5	1.15	32	120	20	-20	0.3	-0.2	4.3	800	-0.5	1	0.4	10.5	13.5	0.03	-0.2	6	210	-0.1	-0.05	2.5	100	0.7	1.05	0.1	23
R448415	12.5	0.16	195	160	1.5	14200	25	8	31	150	10	-20	2.1	-0.2	8.5	850	-0.5	0.5	2.1	4.4	26.5	0.19	0.3	20	280	-0.1	0.15	2.4	145	1.4	6.5	1.1	16
R448416	1	0.2	210	170	22	300	15	7	53	150	-5	-20	0.85	-0.2	8.5	1650	-0.5	2.5	4.1	17.5	4.2	0.57	1.1	3.1	290	-0.1	0.25	1.85	97	1.7	20	1.5	21
R448417	3.5	0.07	155	115	35.5	550	10	3.1	63	240	5	-20	0.65	-0.2	27	4250	-0.5	1.5	1.25	0.9	35.5	0.12	0.9	6	150	0.2	0.05	6	155	0.3	5	0.5	20
R448418	1.5	0.03	230	160	41.5	4550	15	1.25	45	310	15	-20	0.3	-0.2	9	600	-0.5	1	0.48	20	14.5	0.04	-0.2	6.5	270	-0.1	-0.05	2.6	110	1.8	1.65	0.2	48
R448419																																	
R448420	1.5	0.03	230	160	41.5	4550	15	1.25	45	310	15	-20	0.3	-0.2	9	600	-0.5	1	0.48	20	14.5	0.04	-0.2	6.5	270	-0.1	-0.05	2.6	110	1.8	1.65	0.2	48
R448421	7.5	0.04	400	105	4.8	2250	-5	7.5	14	430	-5		1.85		2.3	2600	-0.5	4.5	1.65	9	28	0.11	2.5	3.7	700	0.1	-0.05	1.2	140	0.4	2.5	0.25	18
R448422	4.5	0.06	340	1050	1.9	80	-5	5	28	165	-5		1.25		3.7	300	-0.5	1	1.35	8	14.5	0.12	-0.2	1.65	150	-0.1	0.05	0.95	105	2	4.8	0.4	88
R448423	1	-0.02	360	500	2.4	125	-5	0.84	50	300	10		0.25		8	150	-0.5	3	0.27	9.5	10	-0.02	1	0.61	210	-0.1	-0.05	1.5	68	0.4	0.6	0.1	37
R448424	76	0.18	1400	100	4.3	45800	-5	79	19	430	-5		22.5		9	150	-0.5	5.5	13	4.6	24.5	0.67	0.3	11.5	1400	-0.1	0.15	3.4	43	0.3	11.5	1.05	21
R448425	3.5	0.09	650	400	2.1	1100	-5	4.4	42	290	-5		1.2		1.8	350	-0.5	9.5	1.2	6.5	18.5	0.12	0.9	1.45	480	-0.1	0.05	5.5	260	0.2	5.5	0.55	24
R448426	74	0.43	4100	420	2.8	12300	-5	89	29	650	15		26		42	250	-0.5	6.5	16	19	30	0.99	1.5	20	10700	0.2	0.3	51	135	0.8	26	2.1	50
R448427	4	0.82	30700	3300	0.7	1150	-5	8.5	9	1000	5		1.8		3.8	-50	0.5	-0.5	3.2	5.5	230	0.59	-0.2	3.3	1100	-0.1	0.55	3.6	87	-0.1	30.5	3.9	95
R448428	2	0.19	400	70	3.1	31800	-5	8	30	190	-5		1.25		2.8	20500	-0.5	4.5	4	1.1	33	0.56	1.7	4.2	600	-0.1	0.25	1.4	29	-0.1	21	1.35	9
R448429	2.5	0.03	1100	260	5	1100	-5	3	30	100	10		0.8		5.5	1300	-0.5	0.5	0.73	9.5	14	0.07	0.2	0.74	145	-0.1	-0.05	7.5	31	1.6	1.95	0.2	36
R448430	4.5	0.1	2000	85	1.7	58400	-5	7	4	500	-5		1.85		-0.1	-50	-0.5	-0.5	1.5	1.5	22	0.15	-0.2	11	1550	-0.1	0.1	2.4	55	0.3	4.5	0.55	9
R448431	21	1.5	8050	1700	4.2	5250	-5	34.5	7	550	5		8		36	2050	-0.5	3.5	13.5	11	31.5	2.5	0.8	41	2200	0.2	1.6	36.5	83	2.4	105	9.5	45
R448432	36	0.76	2900	550	2.5	5700	-5	36	29	330	10		10		28.5	100	-0.5	1	7	8	37.5	0.79	0.6	9	1650	0.2	0.55	10.5	100	0.9	45.5	3.5	87

Appendix 2.6
Element plots for rock-chip samples

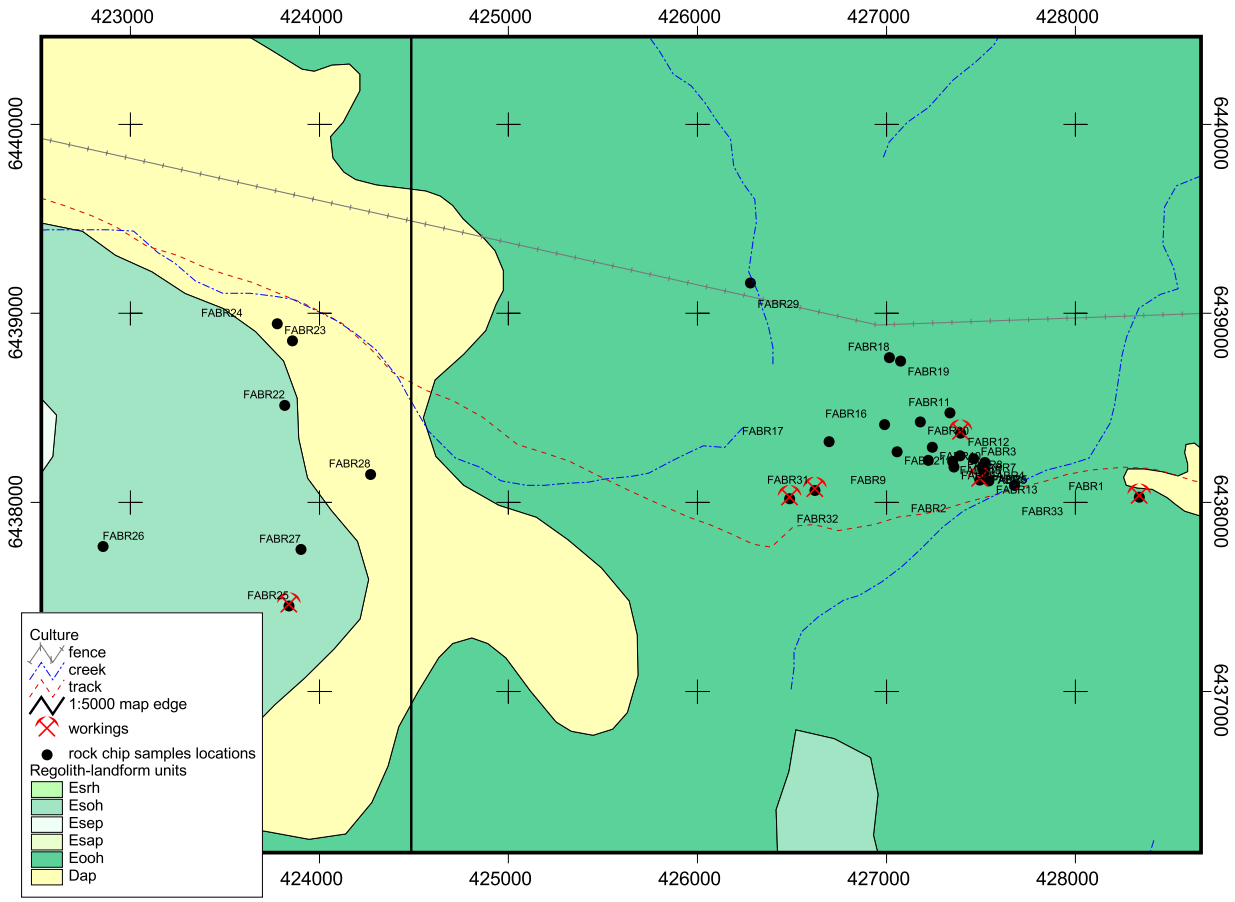


Figure A2.6.1. Locations, selected sample numbers of rock chip samples and regolith landform units at Faugh-a-Ballagh. Other sample numbers are found in the GIS CD.

Regolith landform units used at FAB are described below:

Esrh - Saprock on various siltstones and mudstones of Umberatana Group. Remnant hills.

Esoh - Saprock on metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). Hills.

Esep - Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.

Esap - Thin proximal colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.

Eooh - Slightly weathered metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). High hills.

Dap - Brown soil with lenses of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.

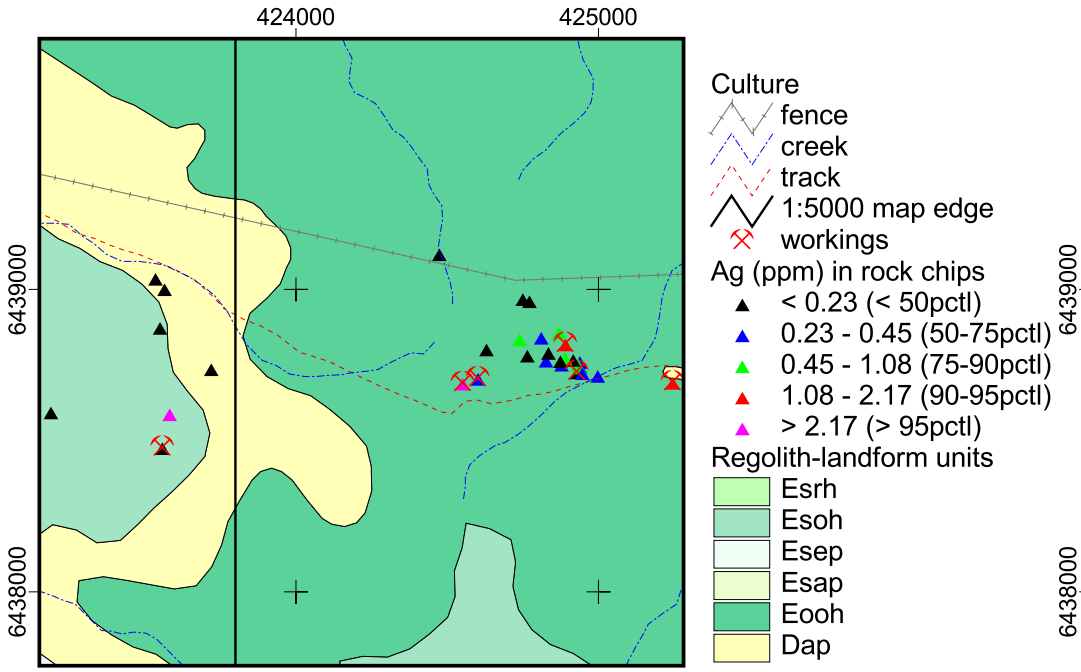


Figure A2.6.2. Distribution of Ag (ppm) in rock chip samples

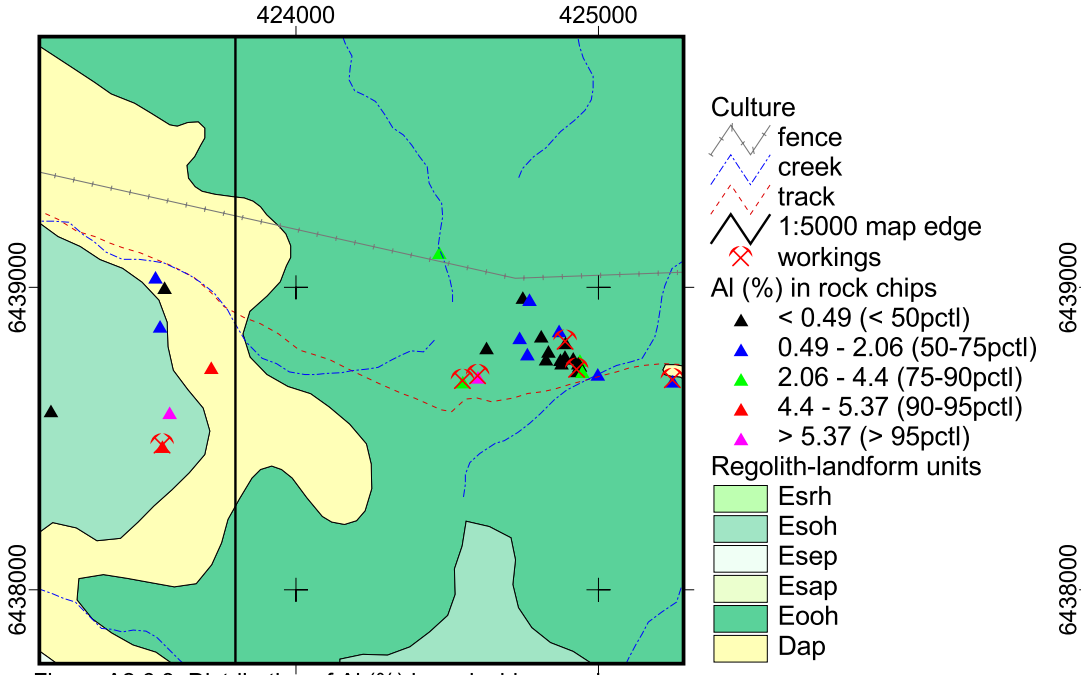


Figure A2.6.3. Distribution of Al (%) in rock chip samples

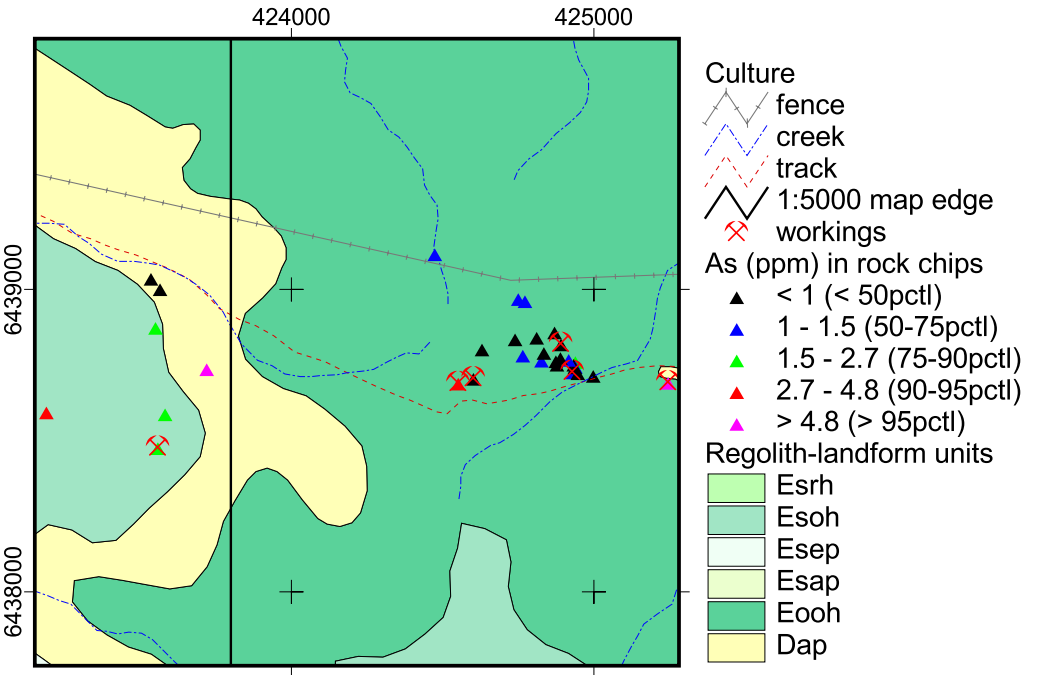


Figure A2.6.4. Distribution of As (ppm) in rock chip samples

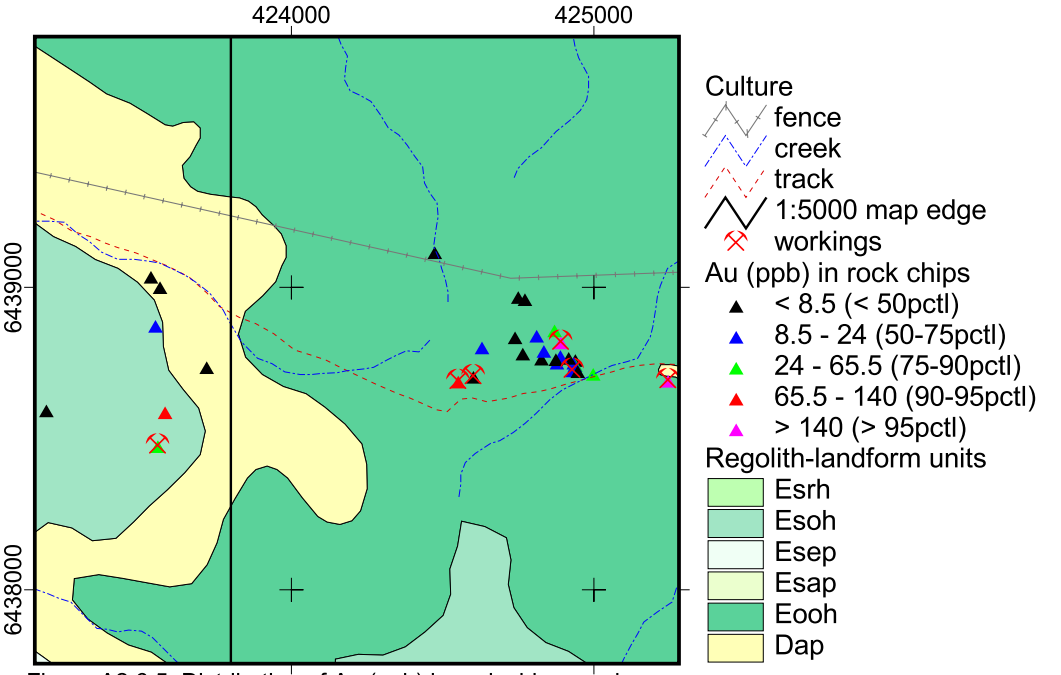


Figure A2.6.5. Distribution of Au (ppb) in rock chip samples

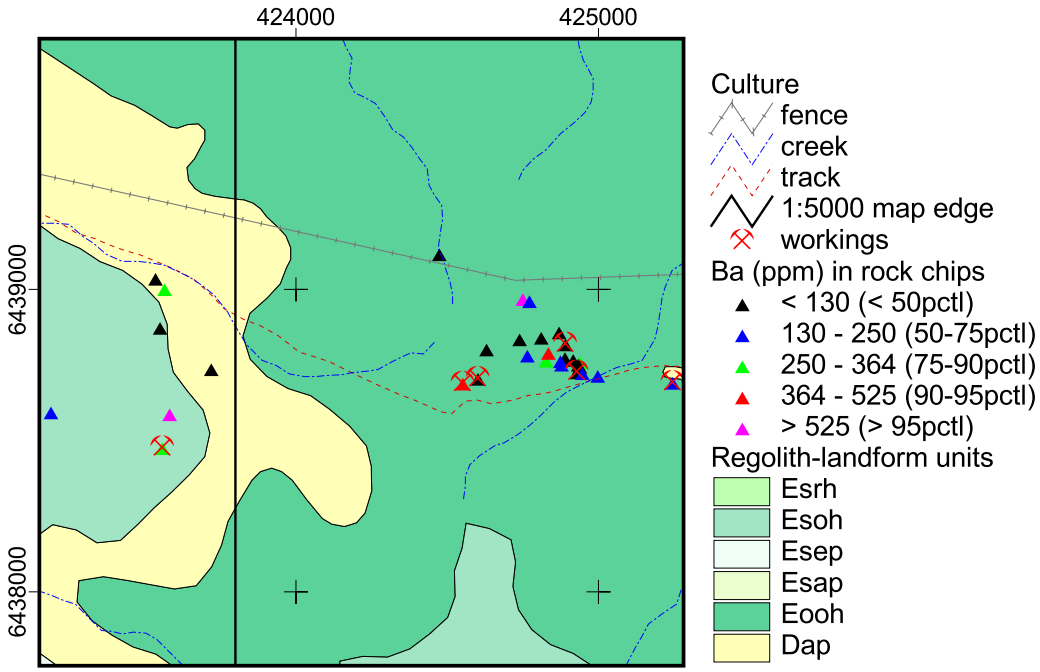


Figure A2.6.6. Distribution of Ba (ppm) in rock chip samples

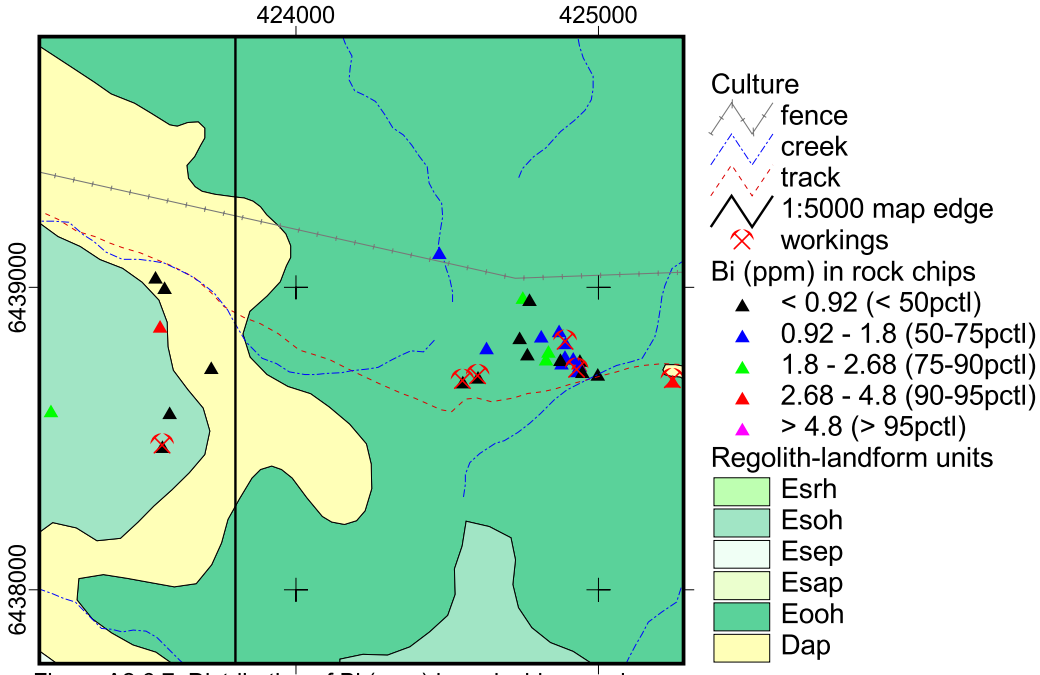


Figure A2.6.7. Distribution of Bi (ppm) in rock chip samples

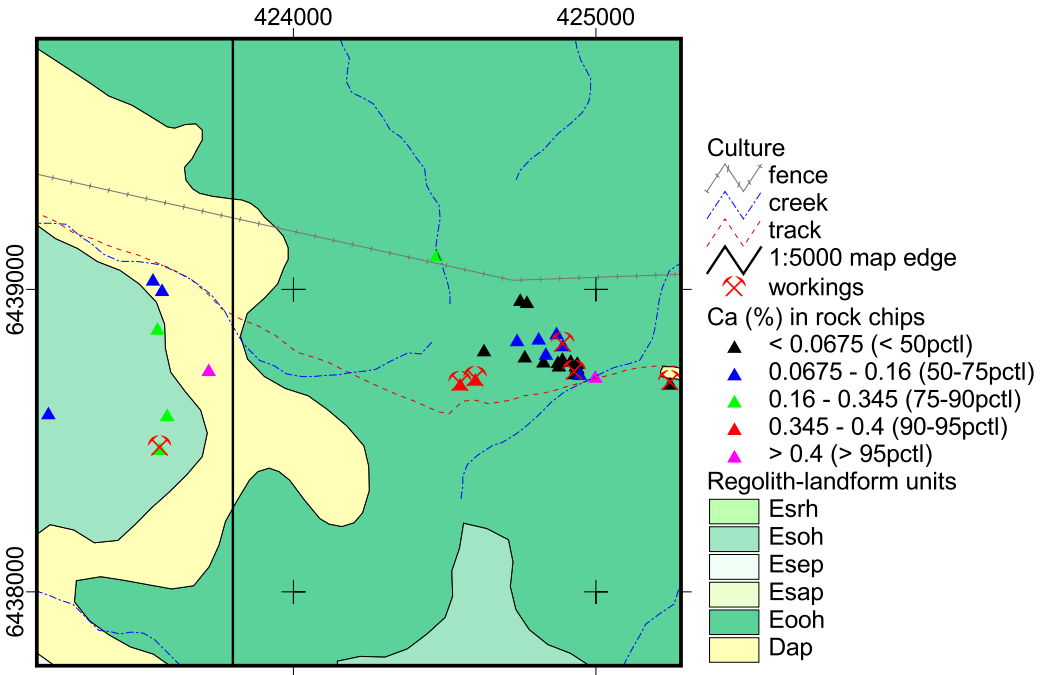


Figure A2.6.8. Distribution of Ca (%) in rock chip samples

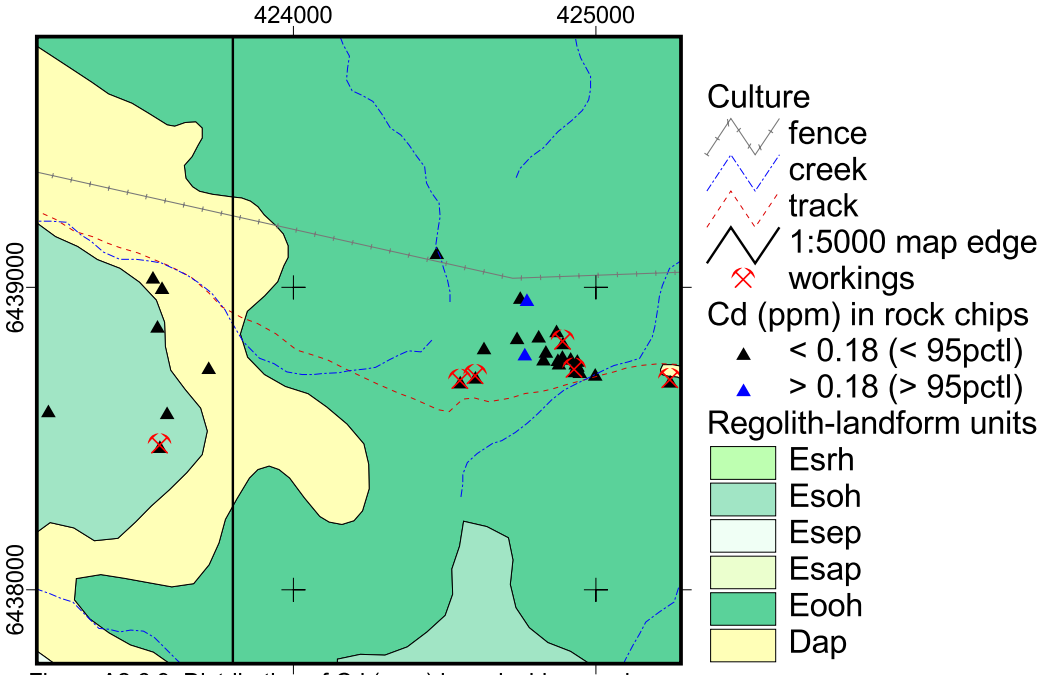


Figure A2.6.9. Distribution of Cd (ppm) in rock chip samples

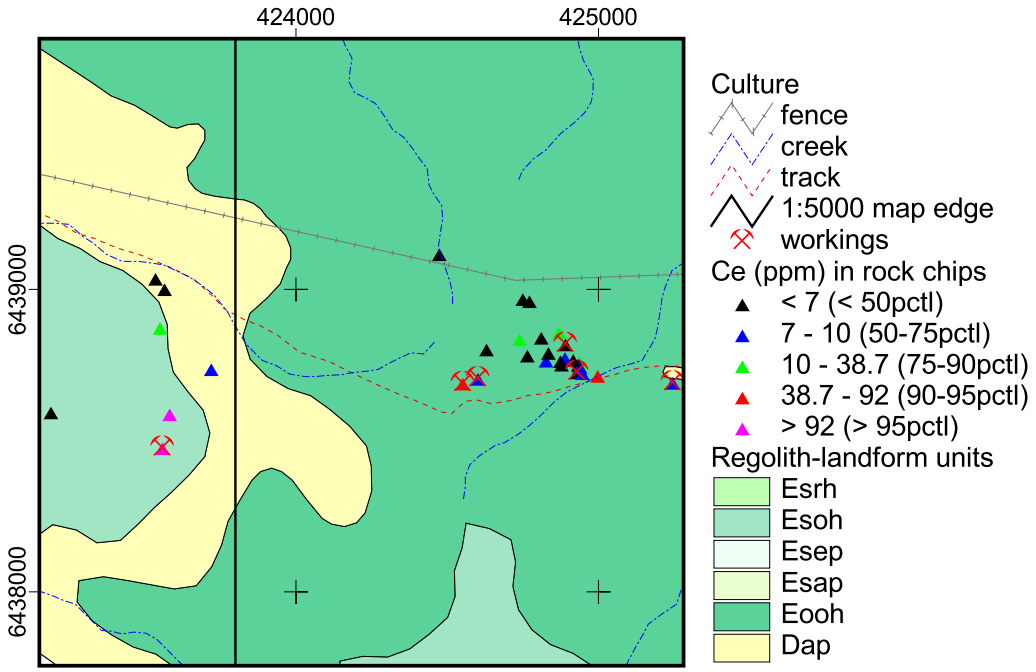


Figure A2.6.10. Distribution of Ce (ppm) in rock chip samples

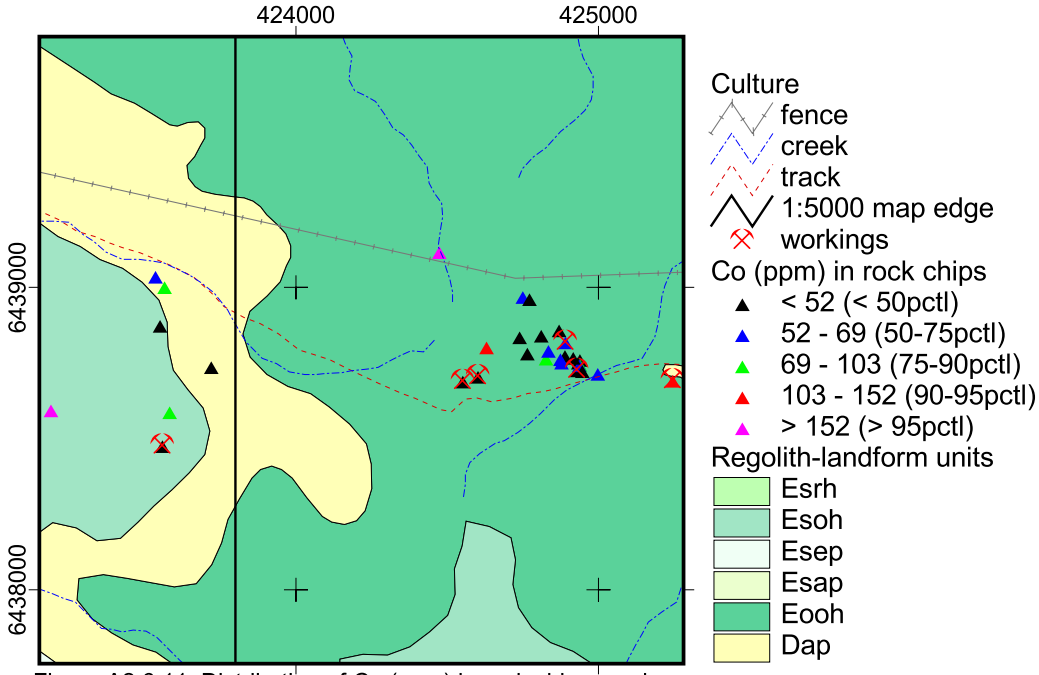


Figure A2.6.11. Distribution of Co (ppm) in rock chip samples

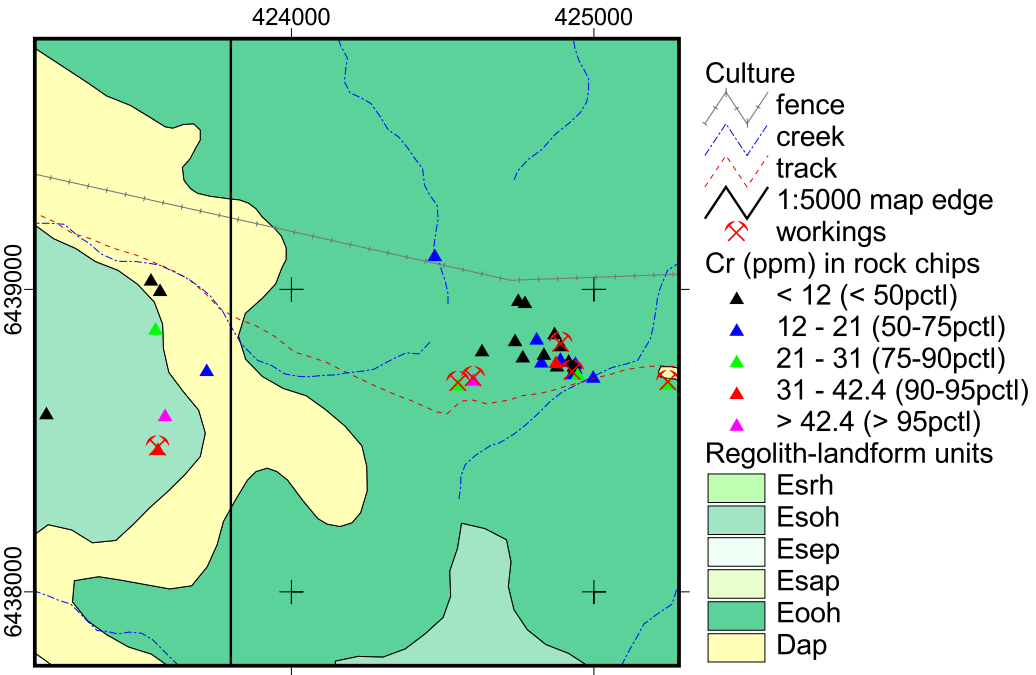


Figure A2.6.12. Distribution of Cr (ppm) in rock chip samples

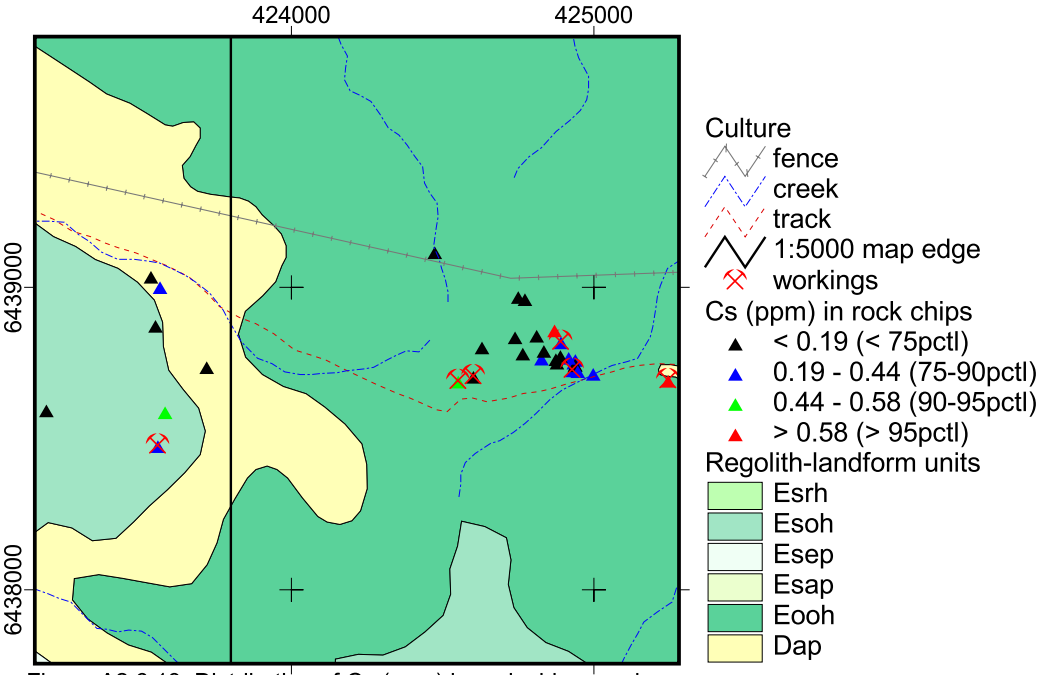


Figure A2.6.13. Distribution of Cs (ppm) in rock chip samples

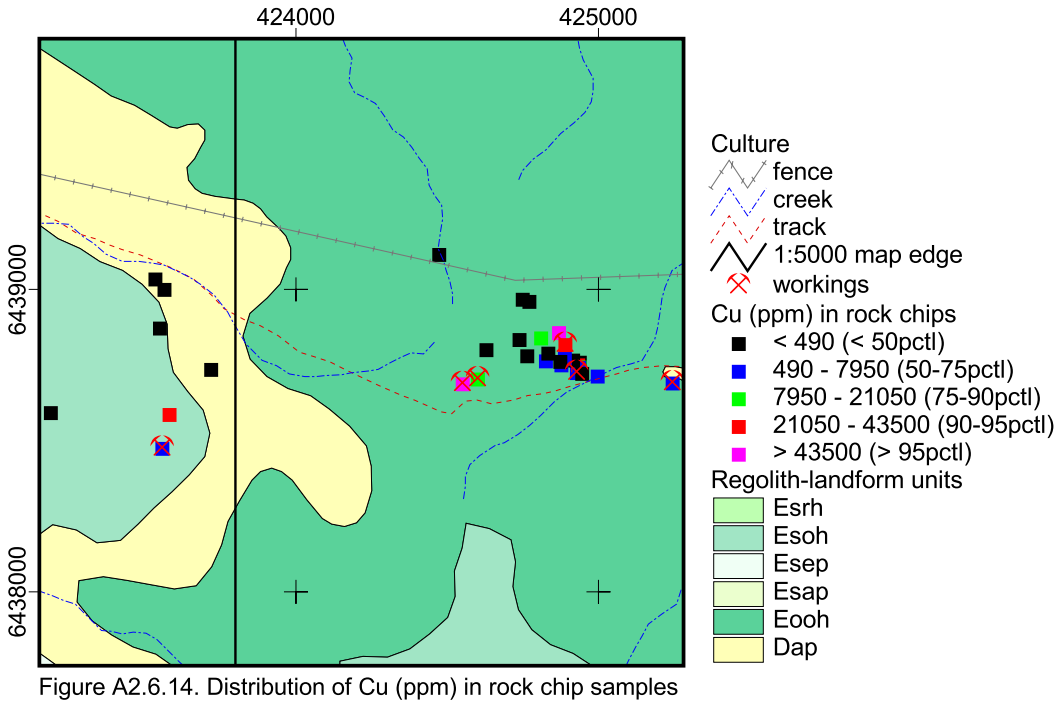


Figure A2.6.14. Distribution of Cu (ppm) in rock chip samples

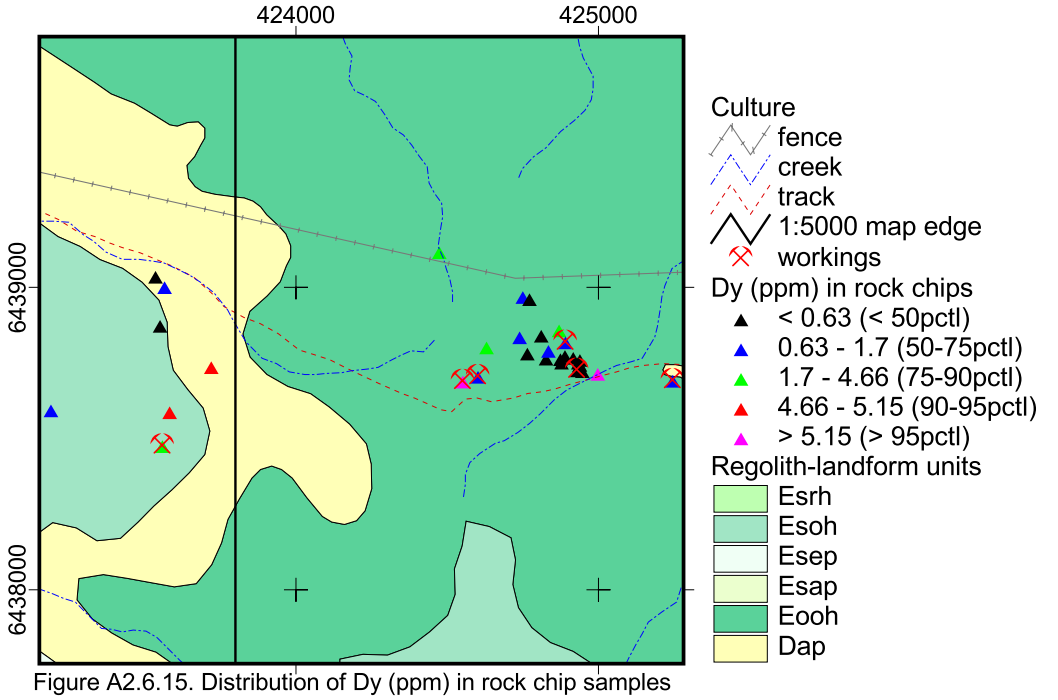


Figure A2.6.15. Distribution of Dy (ppm) in rock chip samples

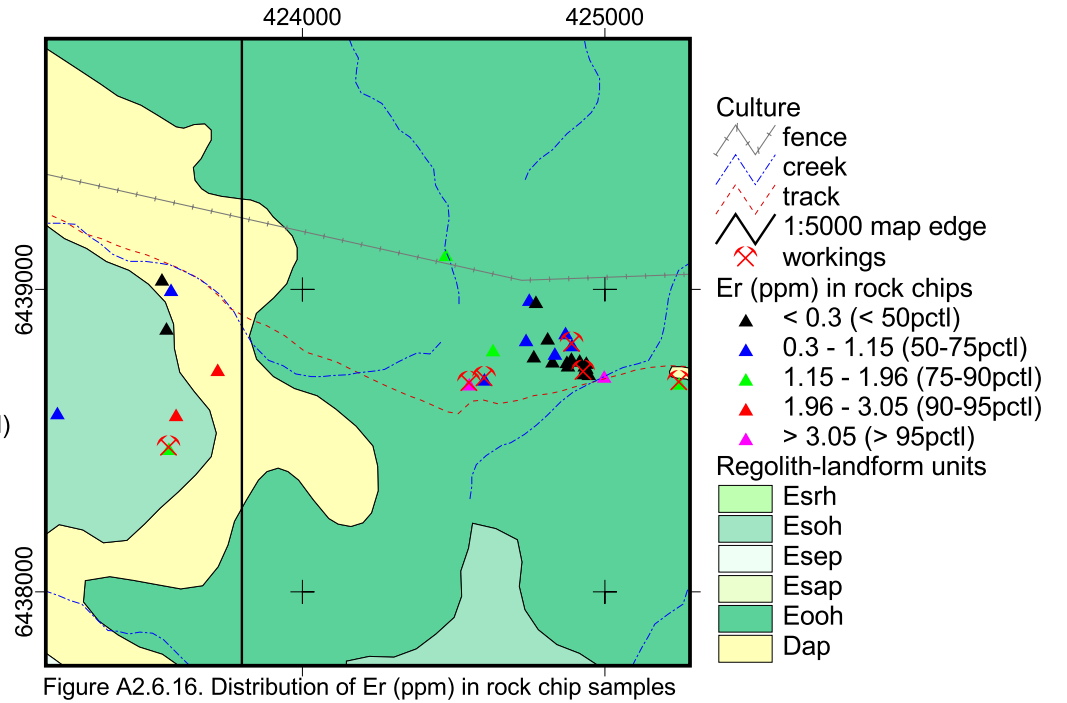


Figure A2.6.16. Distribution of Er (ppm) in rock chip samples

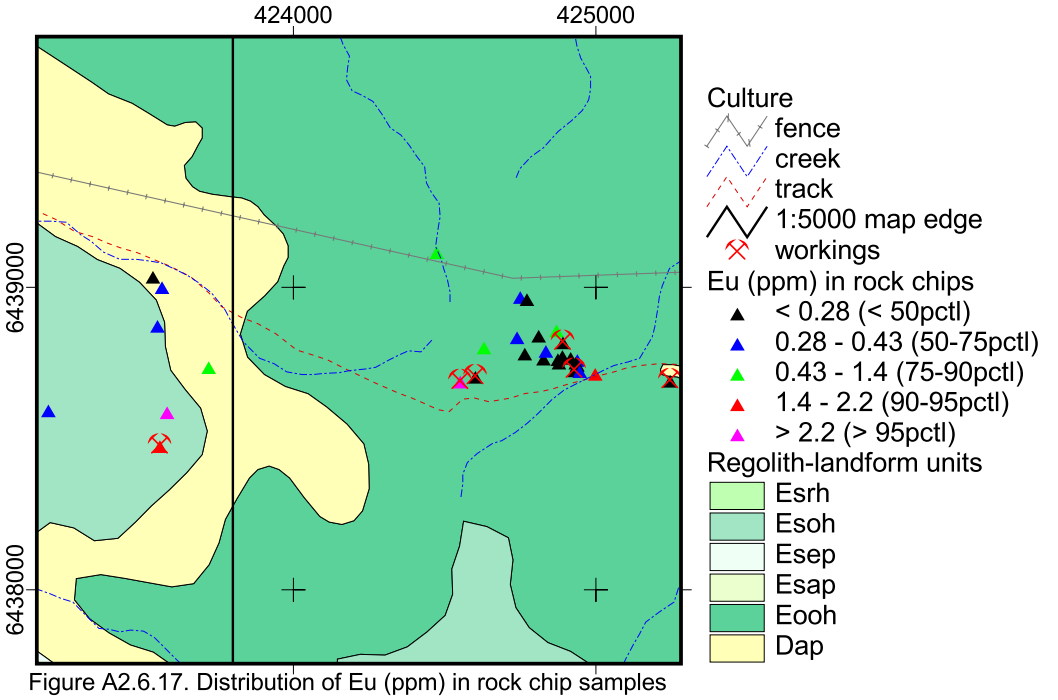


Figure A2.6.17. Distribution of Eu (ppm) in rock chip samples

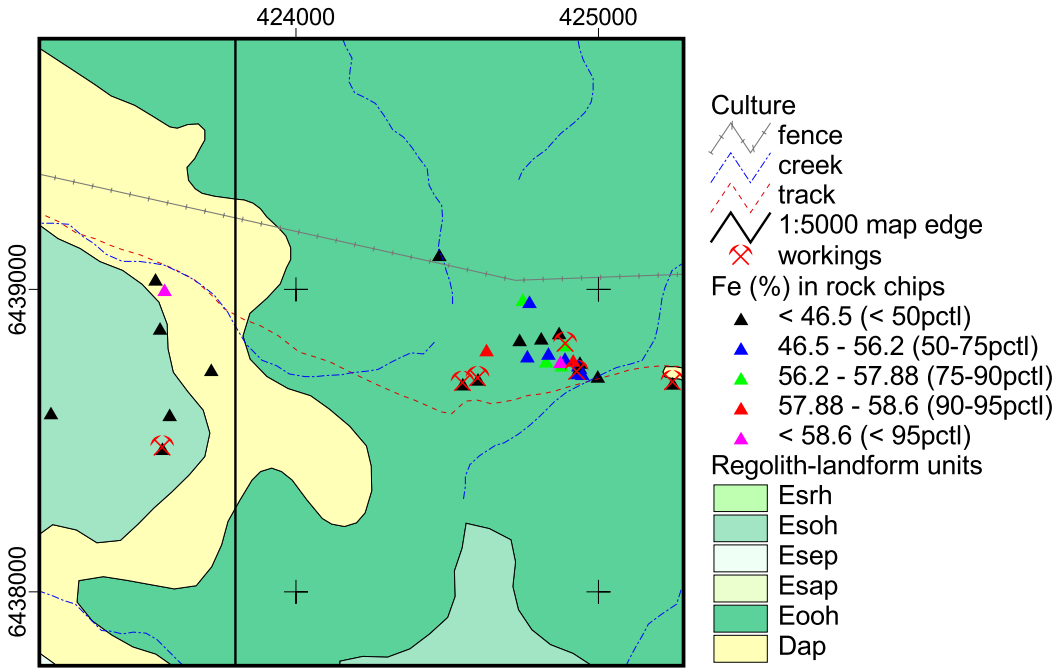


Figure A2.6.18. Distribution of Fe (%) in rock chip samples

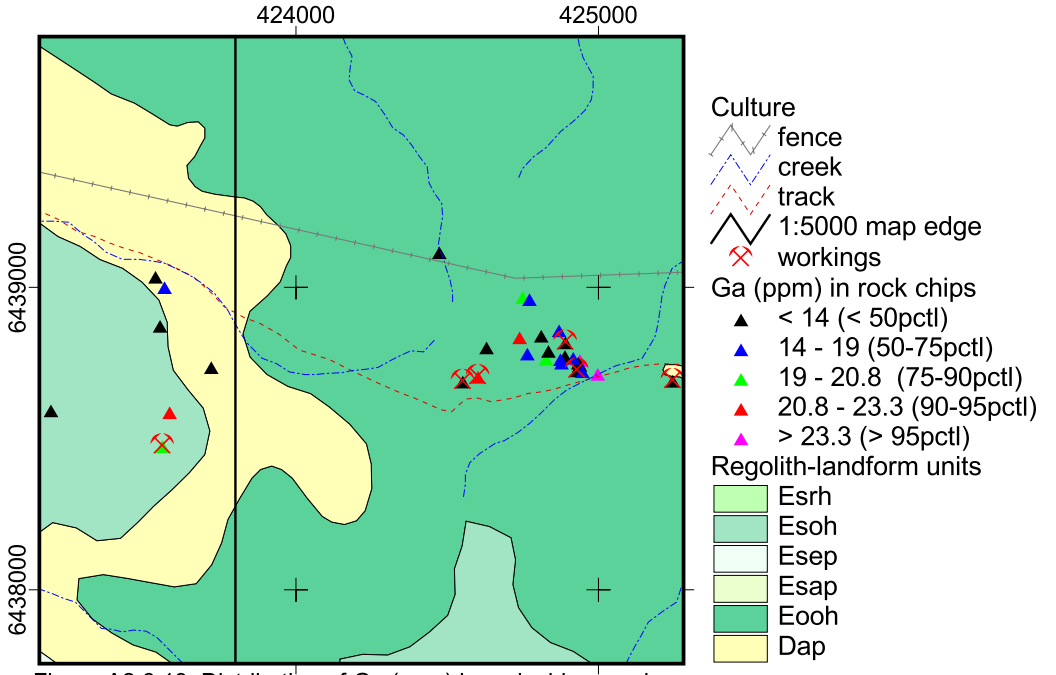


Figure A2.6.19. Distribution of Ga (ppm) in rock chip samples

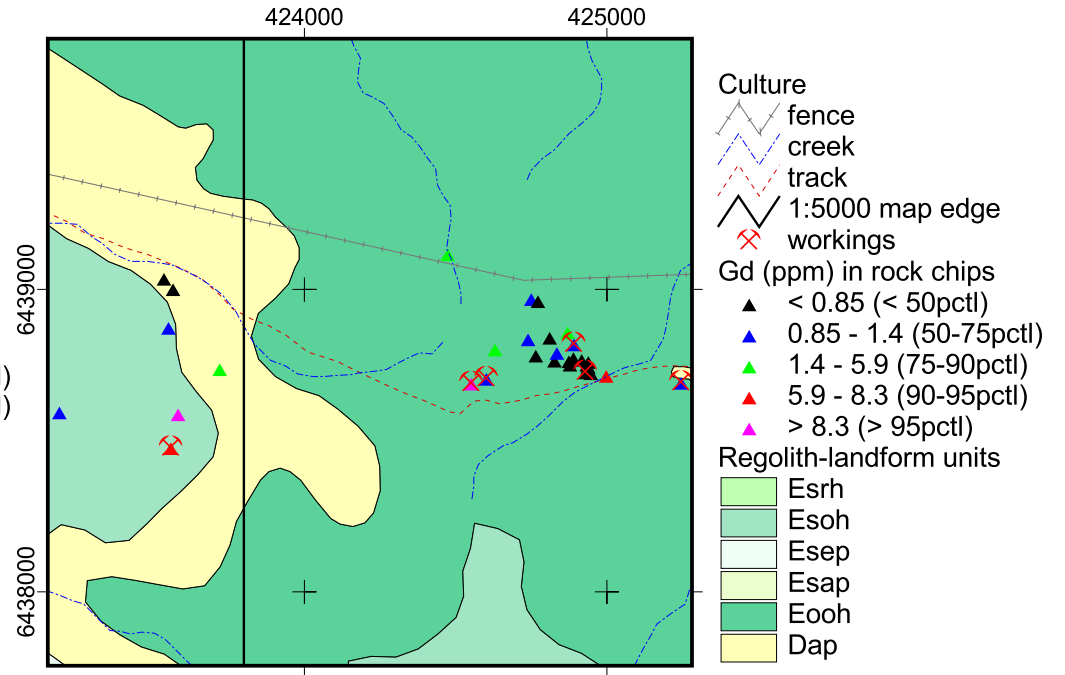


Figure A2.6.20. Distribution of Gd (ppm) in rock chip samples

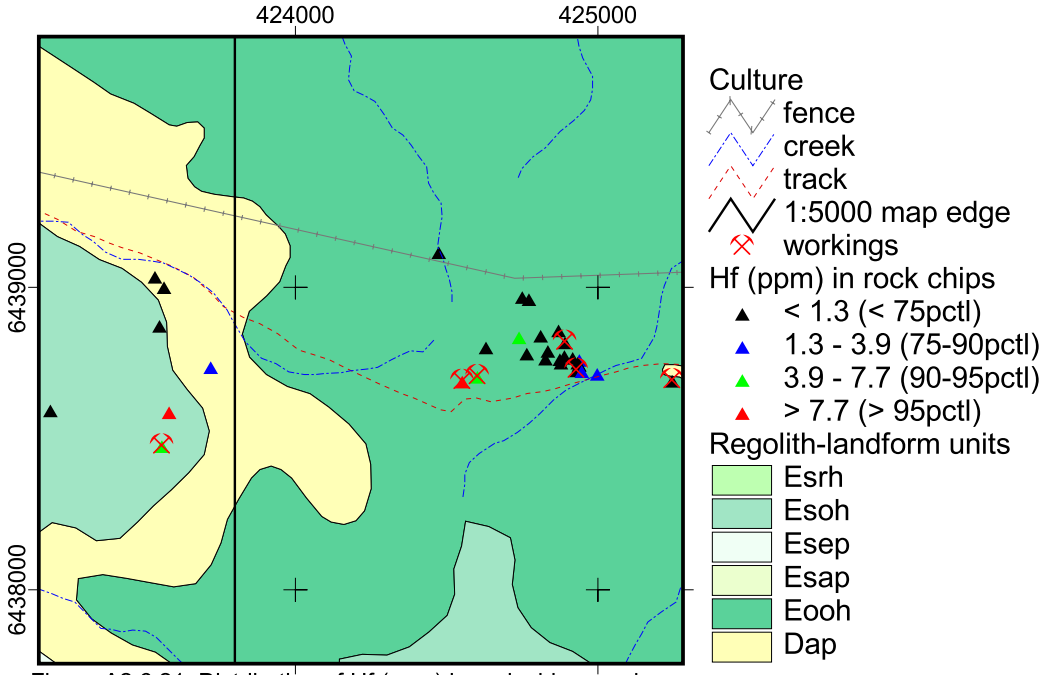


Figure A2.6.21. Distribution of Hf (ppm) in rock chip samples

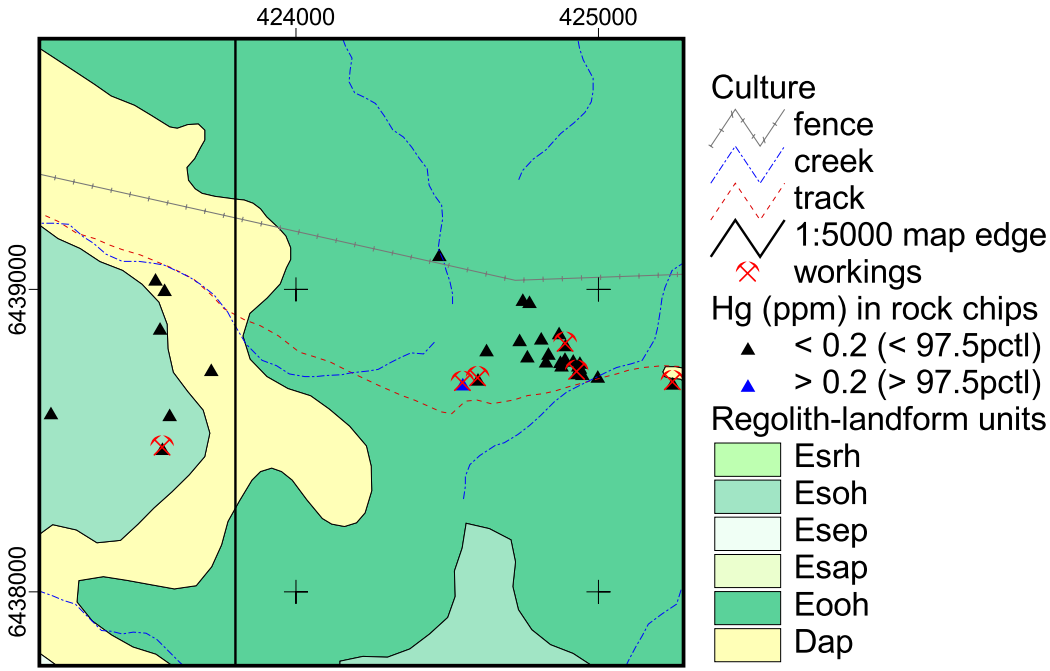


Figure A2.6.22. Distribution of Hg (ppm) in rock chip samples

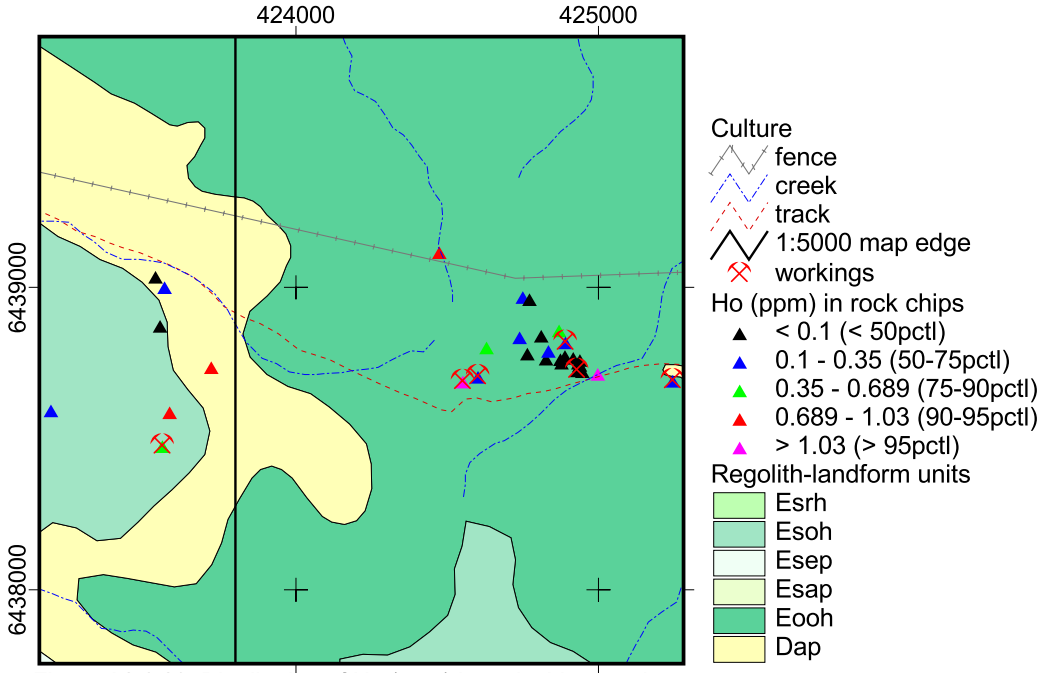


Figure A2.6.23. Distribution of Ho (ppm) in rock chip samples

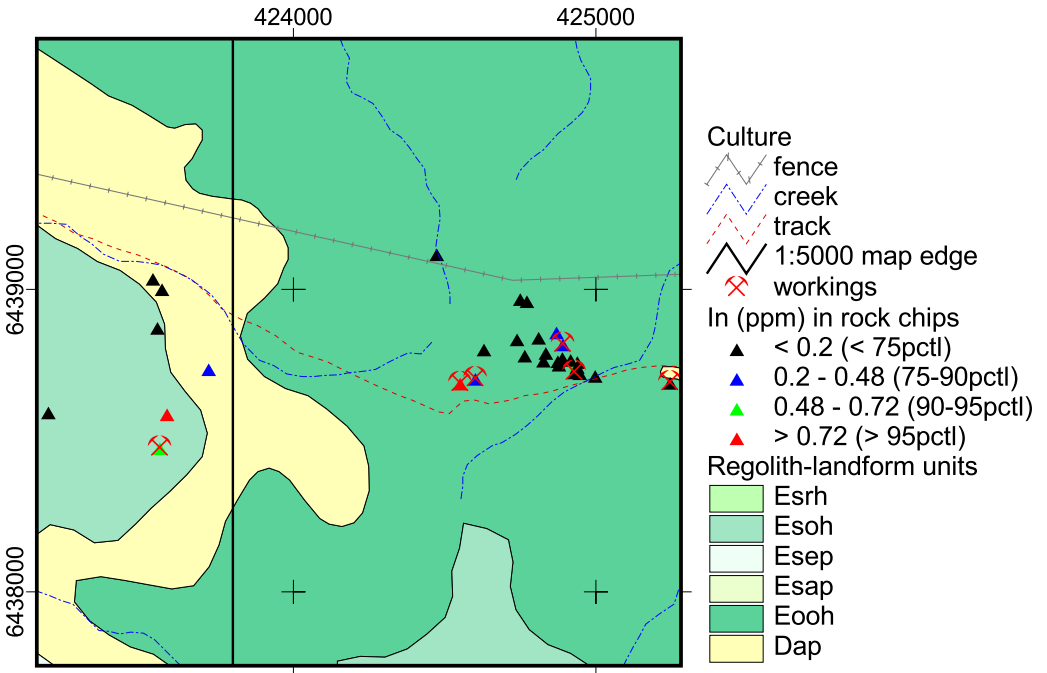


Figure A2.6.24. Distribution of In (ppm) in rock chip samples

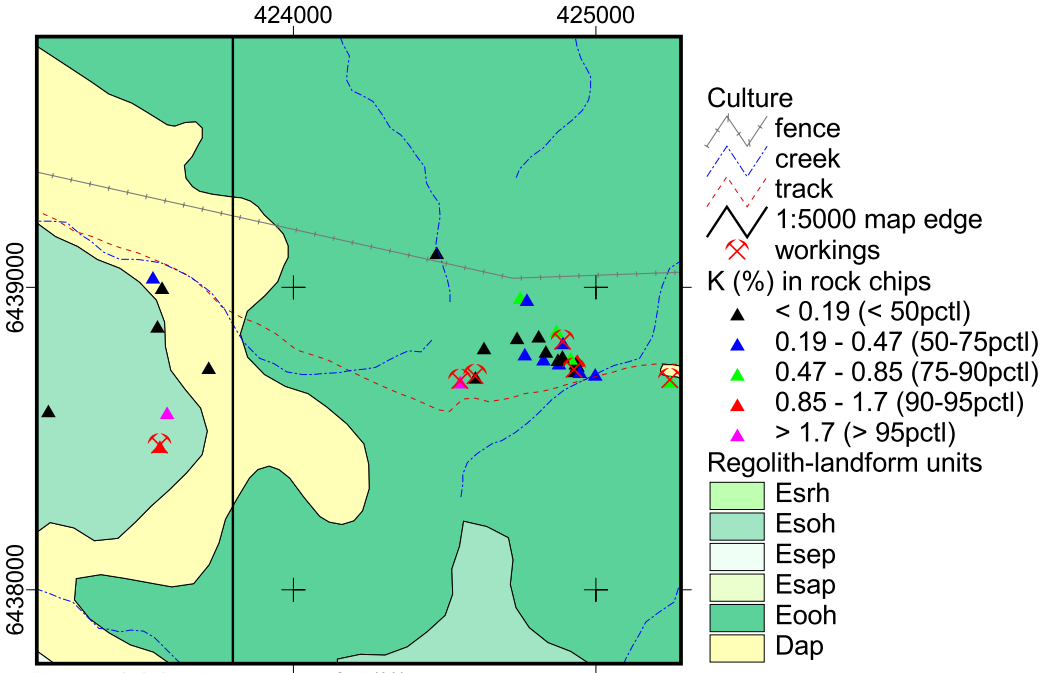


Figure A2.6.25. Distribution of K (%) in rock chip samples

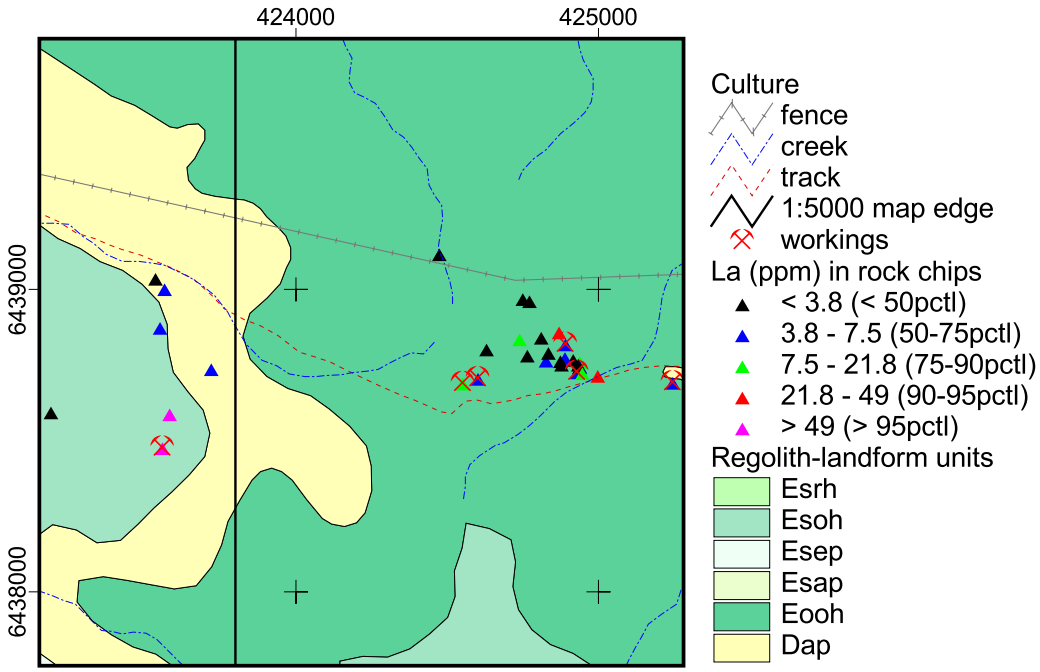


Figure A2.6.26. Distribution of La (ppm) in rock chip samples

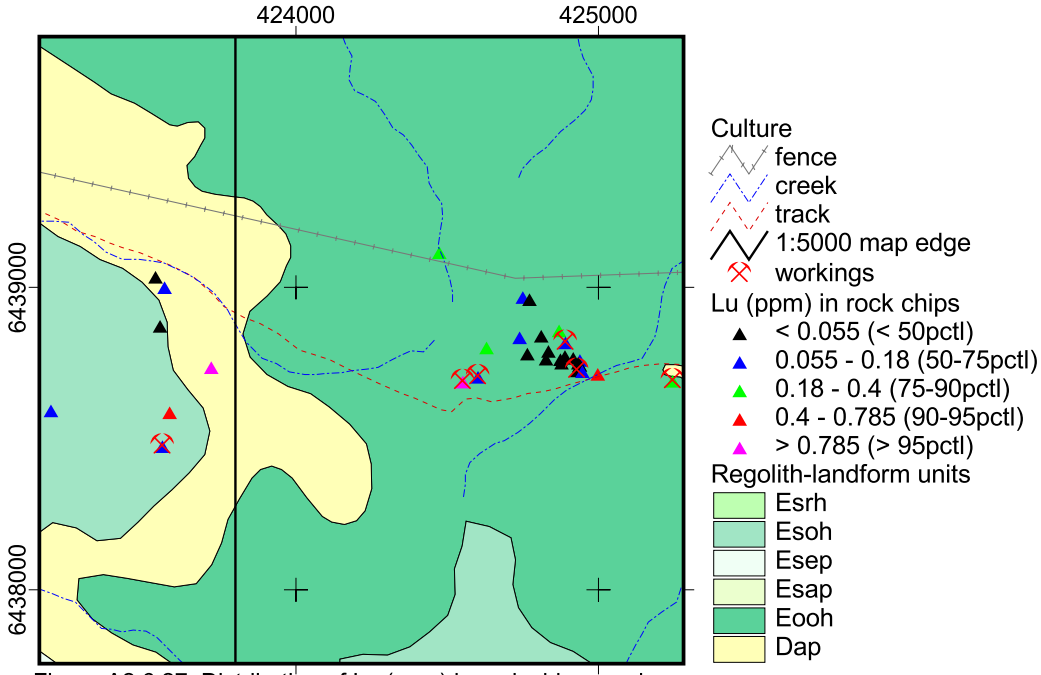


Figure A2.6.27. Distribution of Lu (ppm) in rock chip samples

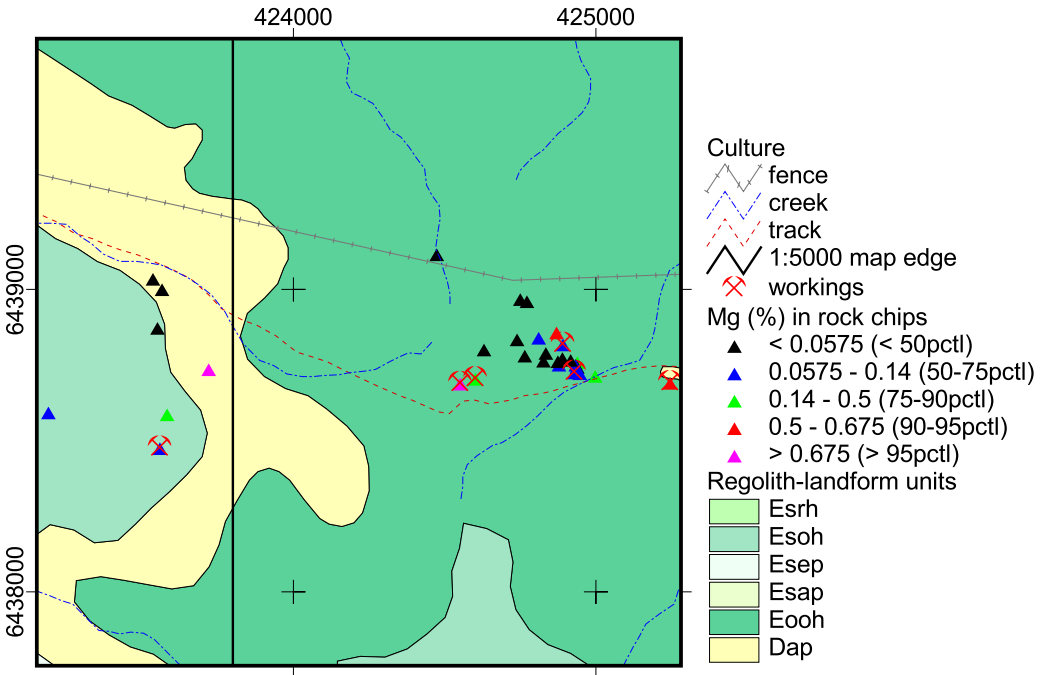


Figure A2.6.28. Distribution of Mg (%) in rock chip samples

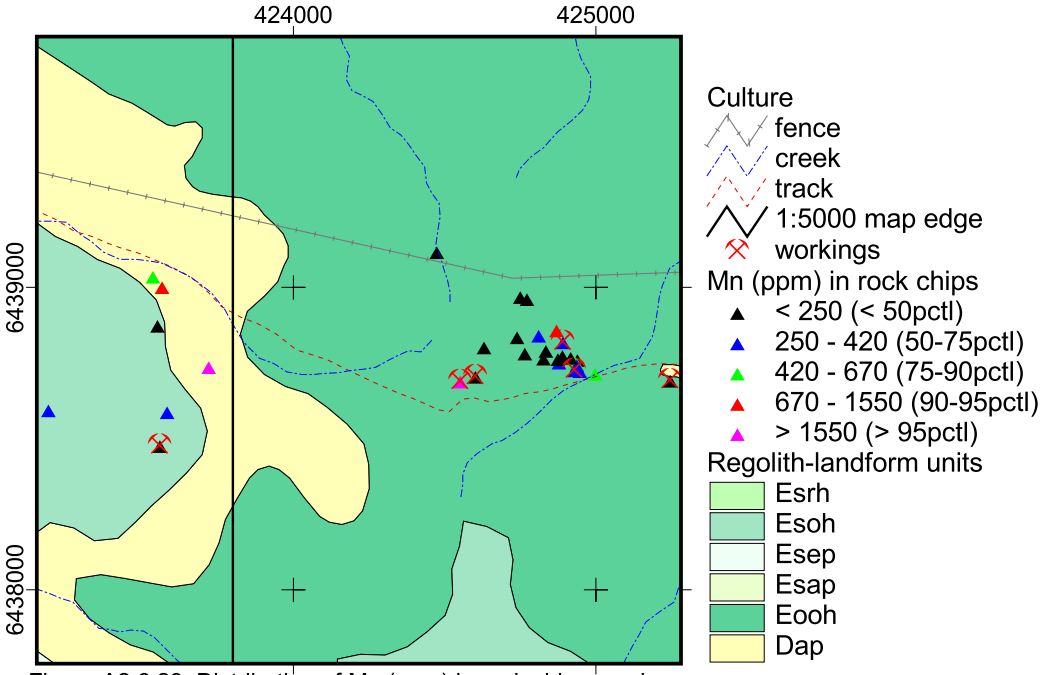


Figure A2.6.29. Distribution of Mn (ppm) in rock chip samples

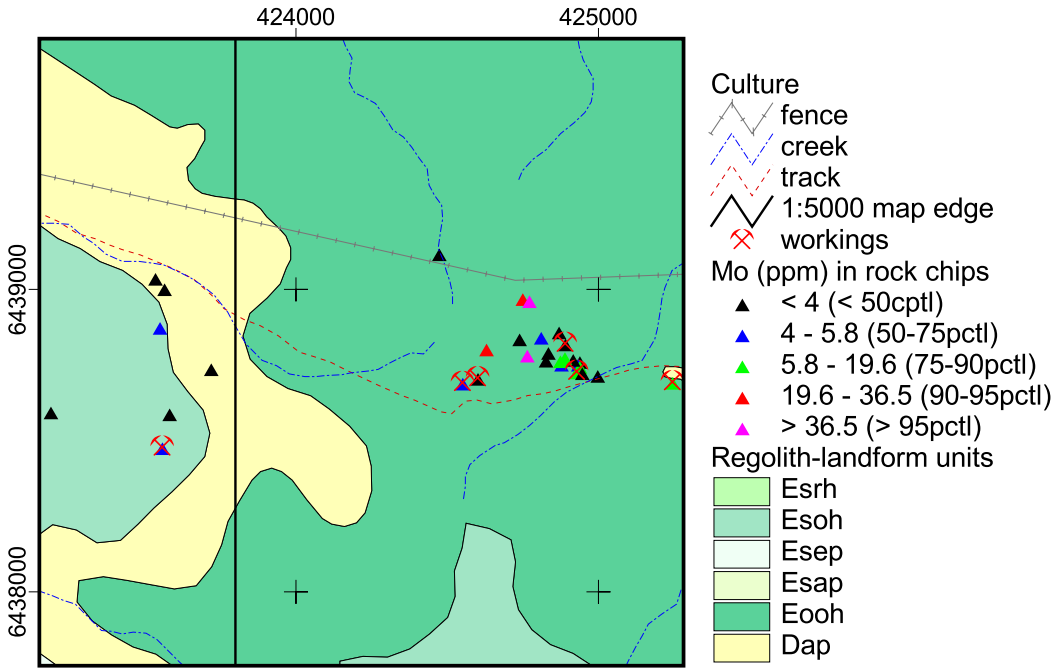


Figure A2.6.30. Distribution of Mo (ppm) in rock chip samples

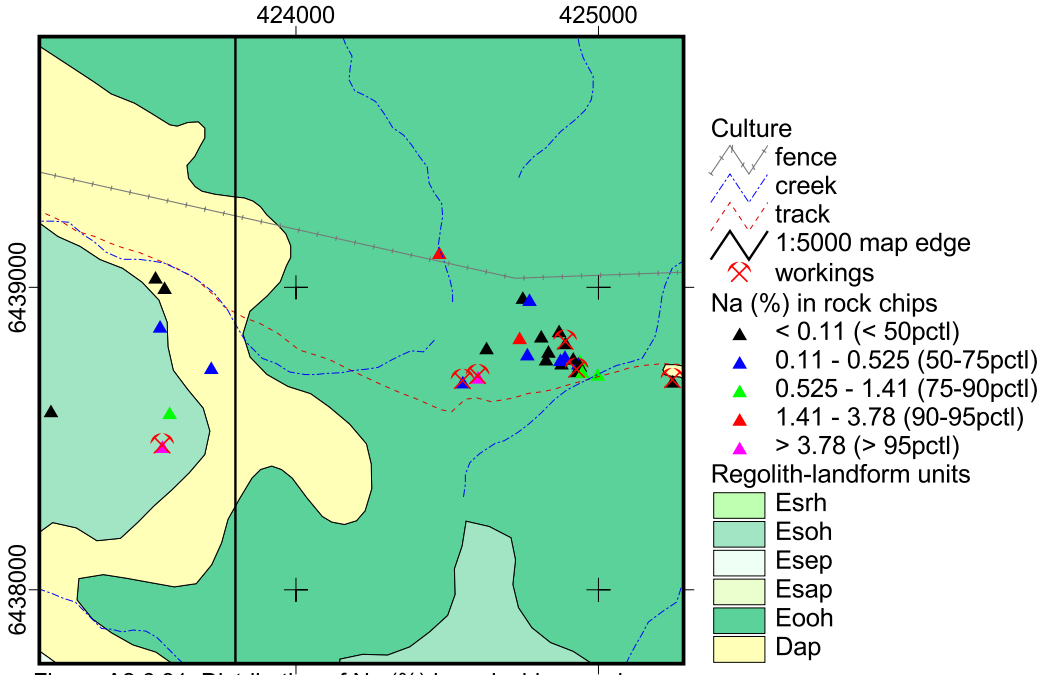


Figure A2.6.31. Distribution of Na (%) in rock chip samples

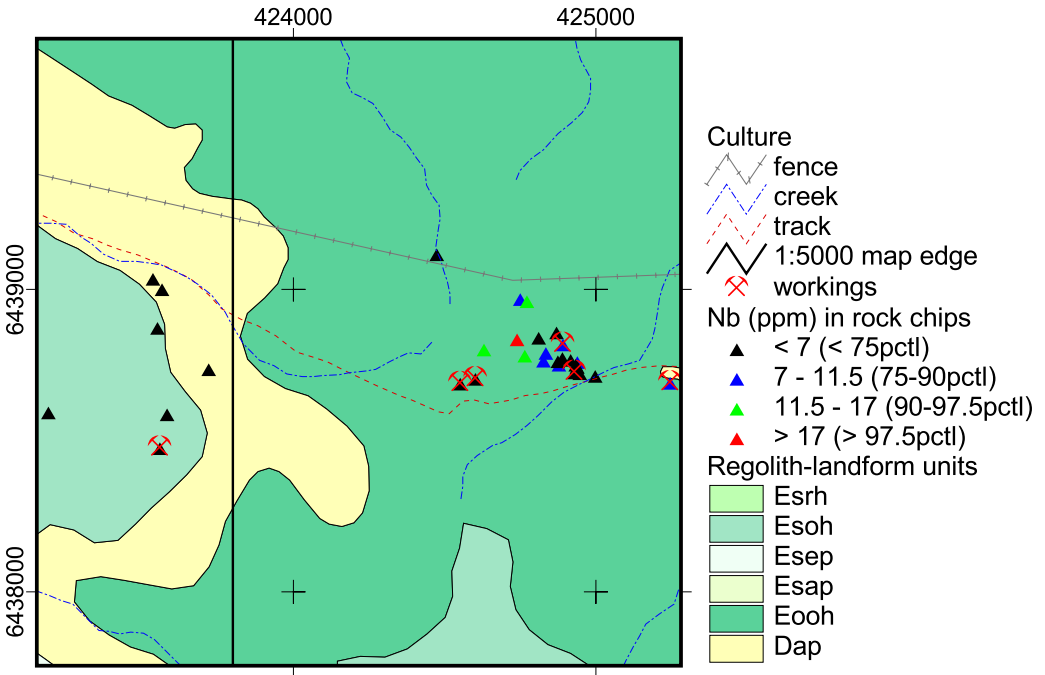


Figure A2.6.32. Distribution of Nb (ppm) in rock chip samples

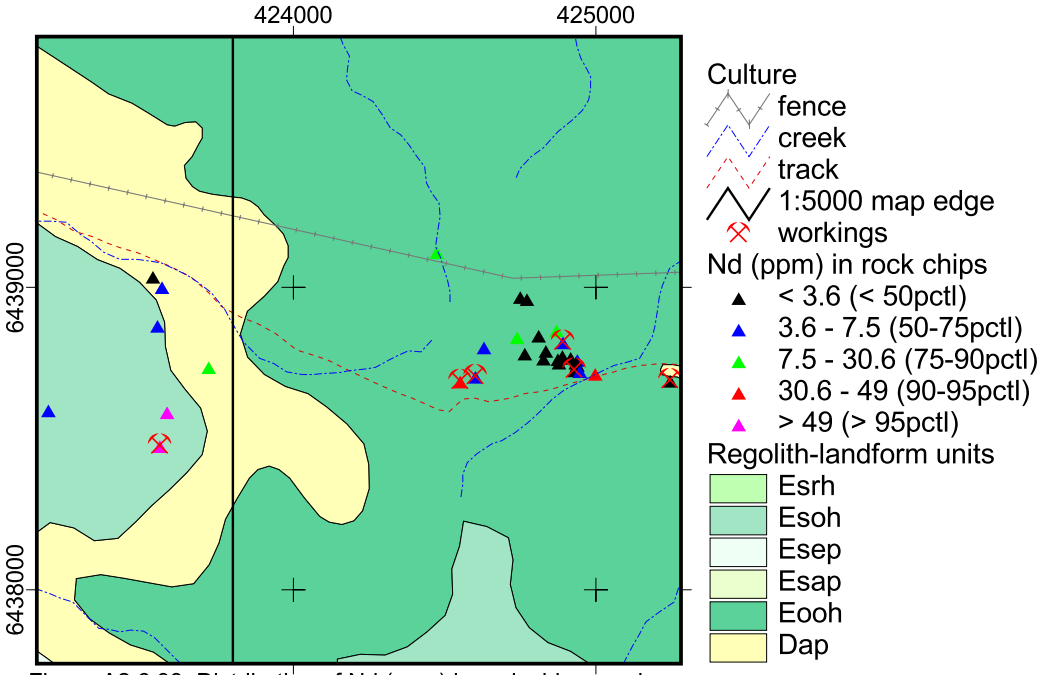


Figure A2.6.33. Distribution of Nd (ppm) in rock chip samples

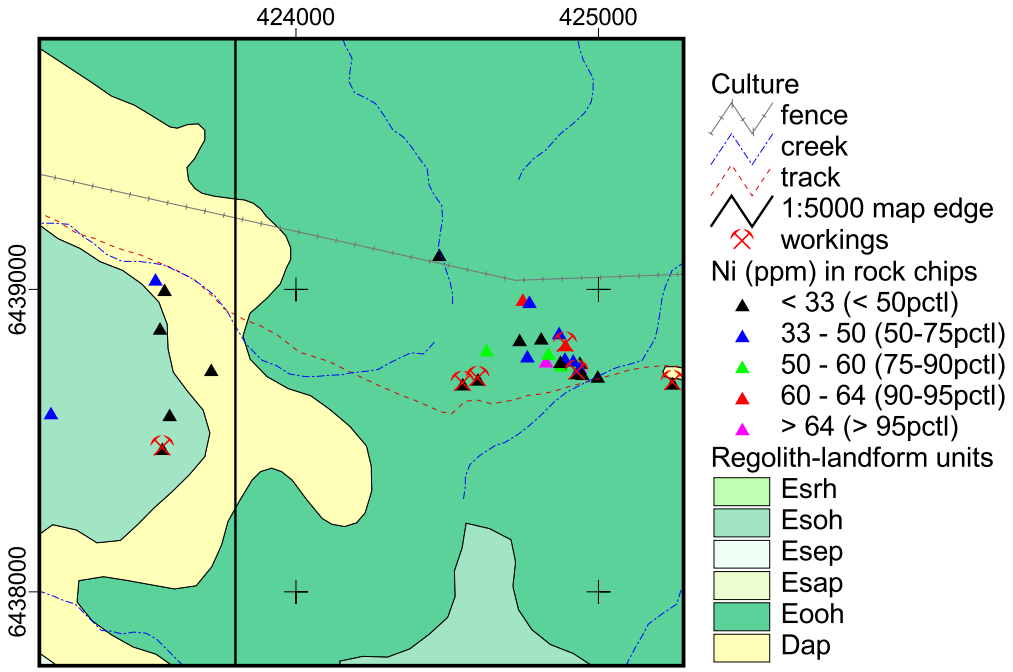


Figure A2.6.34. Distribution of Ni (ppm) in rock chip samples

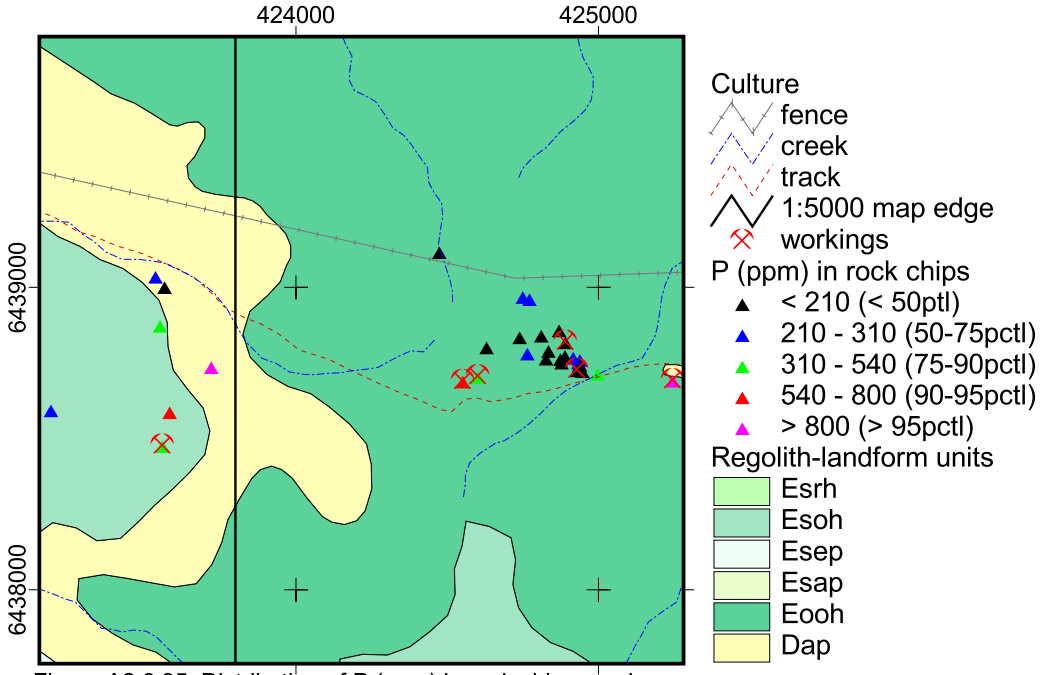


Figure A2.6.35. Distribution of P (ppm) in rock chip samples

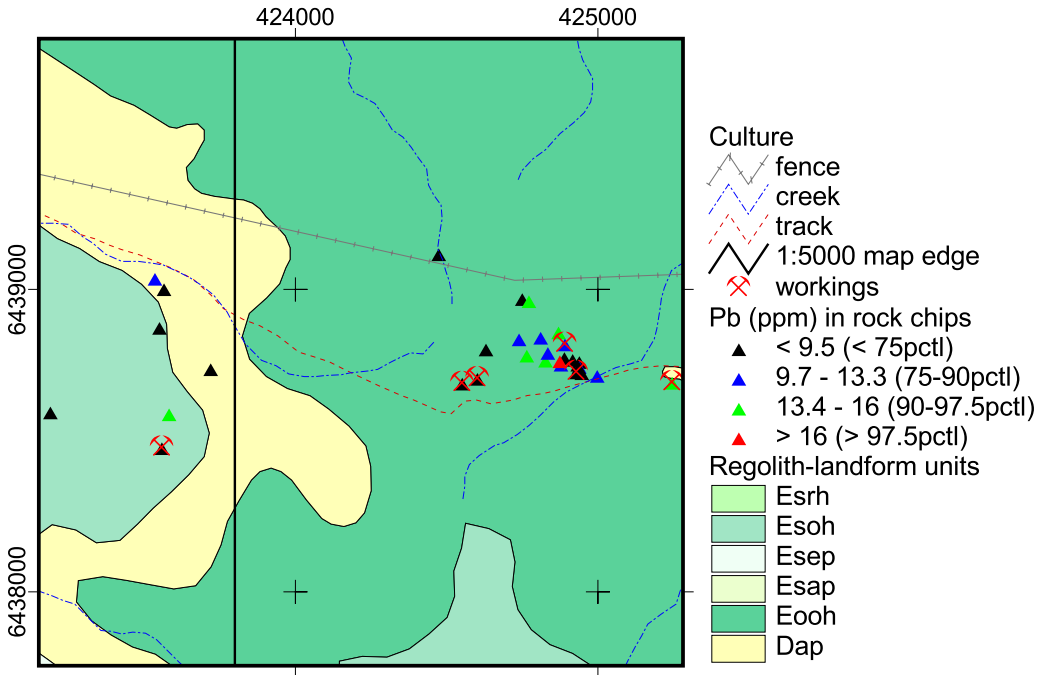


Figure A2.6.36. Distribution of Pb (ppm) in rock chip samples

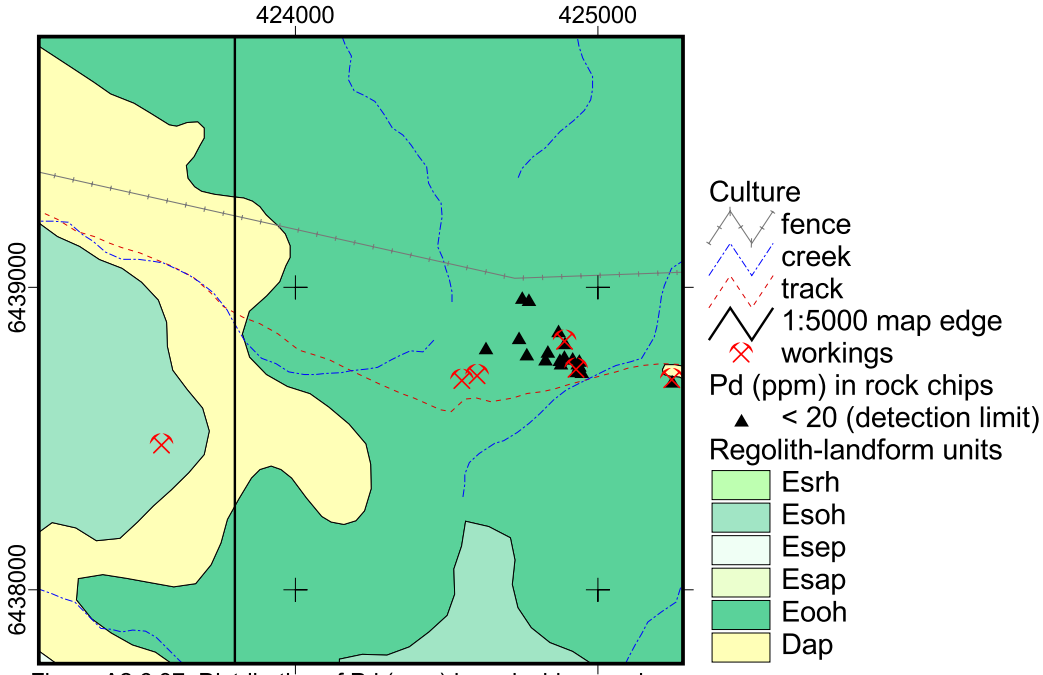


Figure A2.6.37. Distribution of Pd (ppm) in rock chip samples

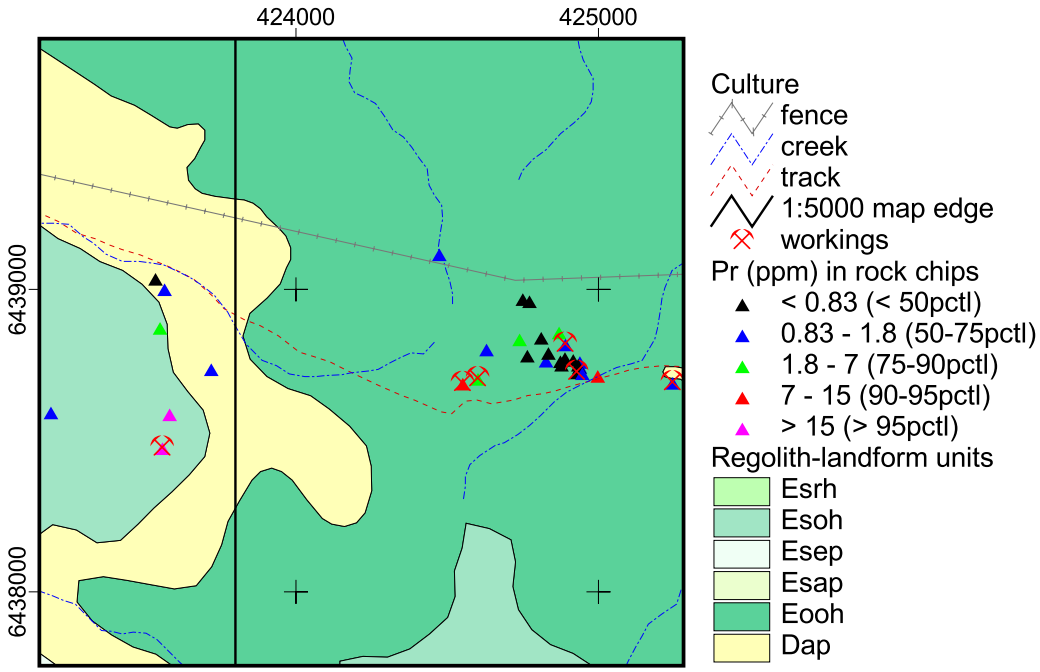


Figure A2.6.38. Distribution of Pr (ppm) in rock chip samples

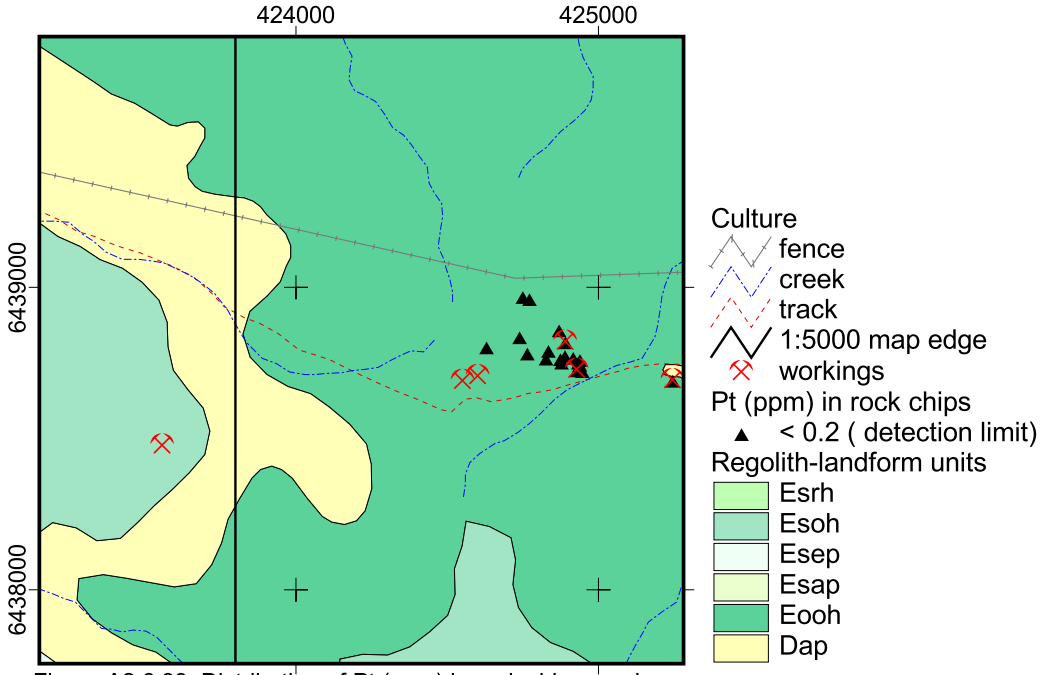


Figure A2.6.39. Distribution of Pt (ppm) in rock chip samples

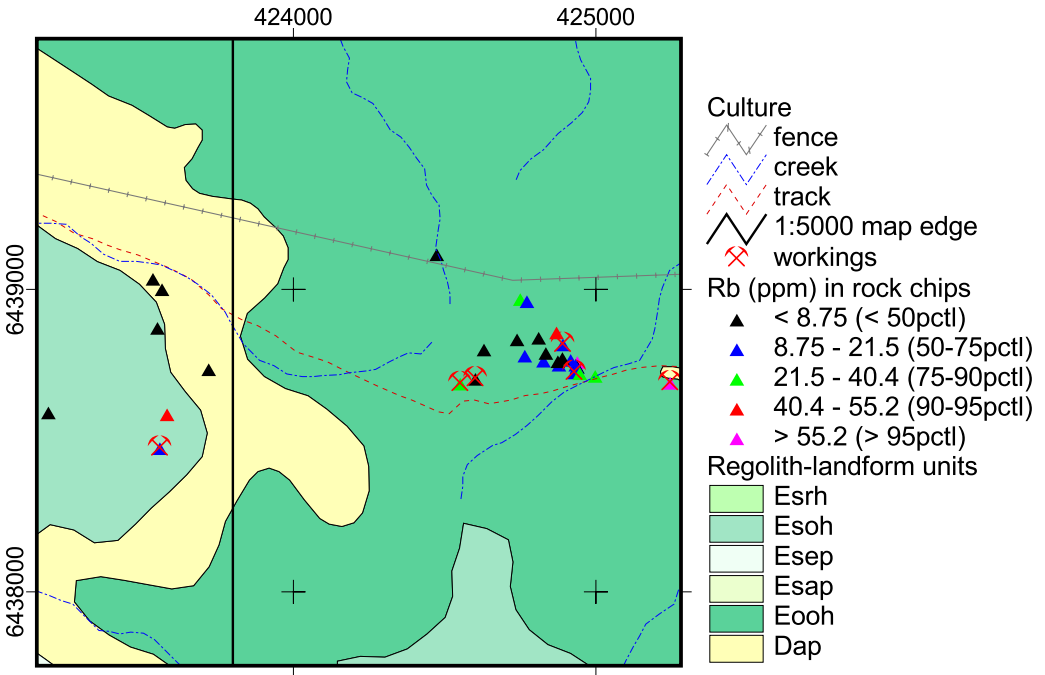


Figure A2.6.40. Distribution of Rb (ppm) in rock chip samples

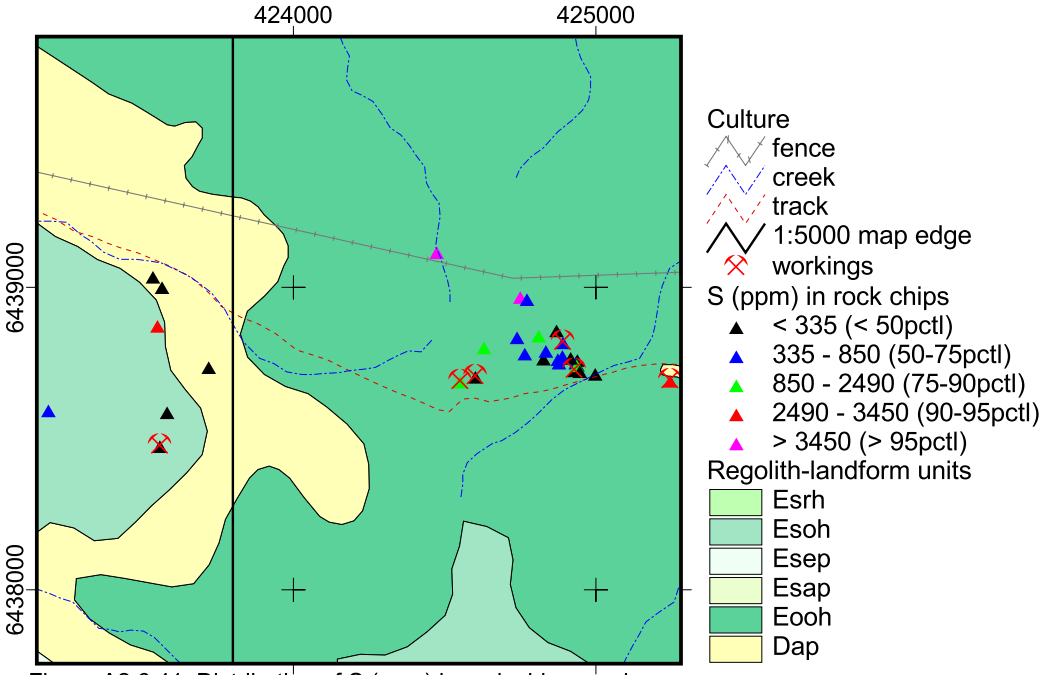


Figure A2.6.41. Distribution of S (ppm) in rock chip samples

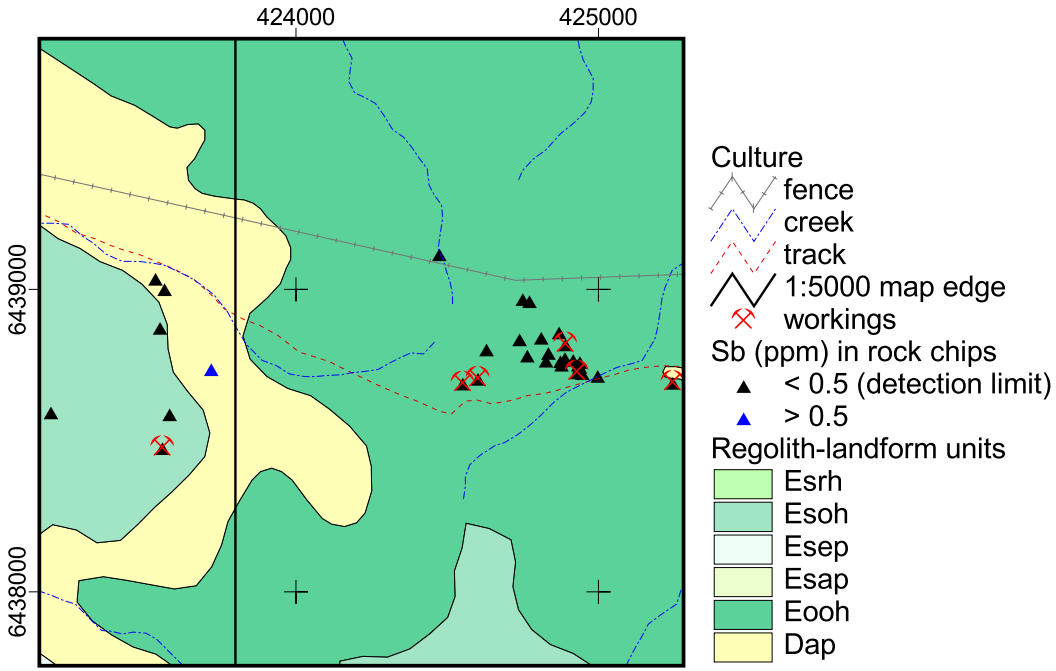


Figure A2.6.42. Distribution of Sb (ppm) in rock chip samples

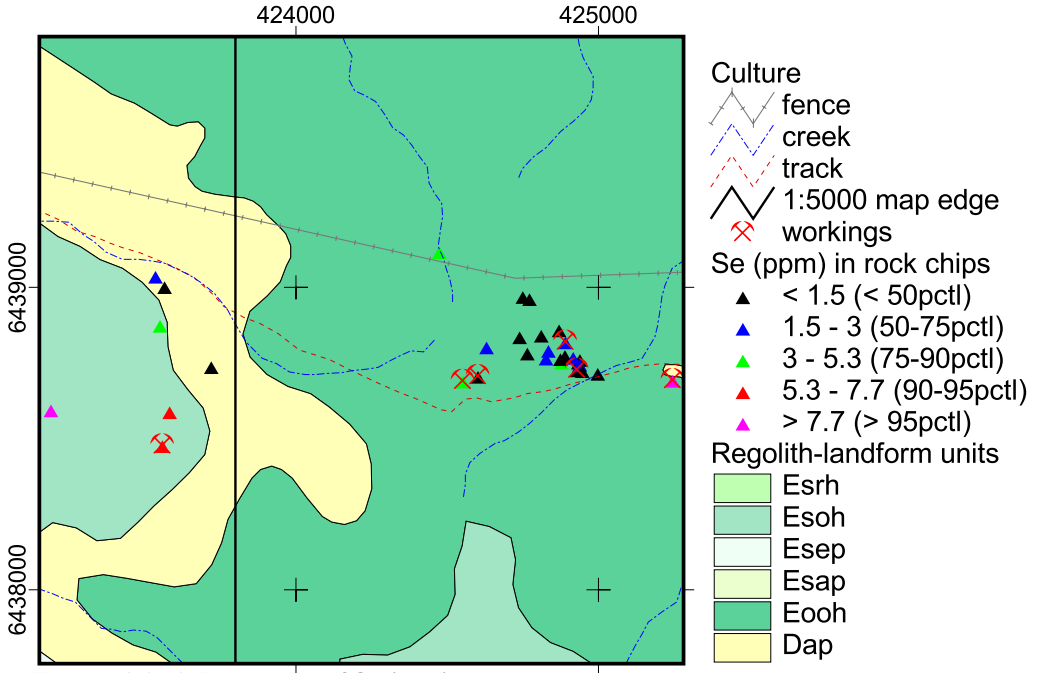


Figure A2.6.43. Distribution of Se (ppm) in rock chip samples

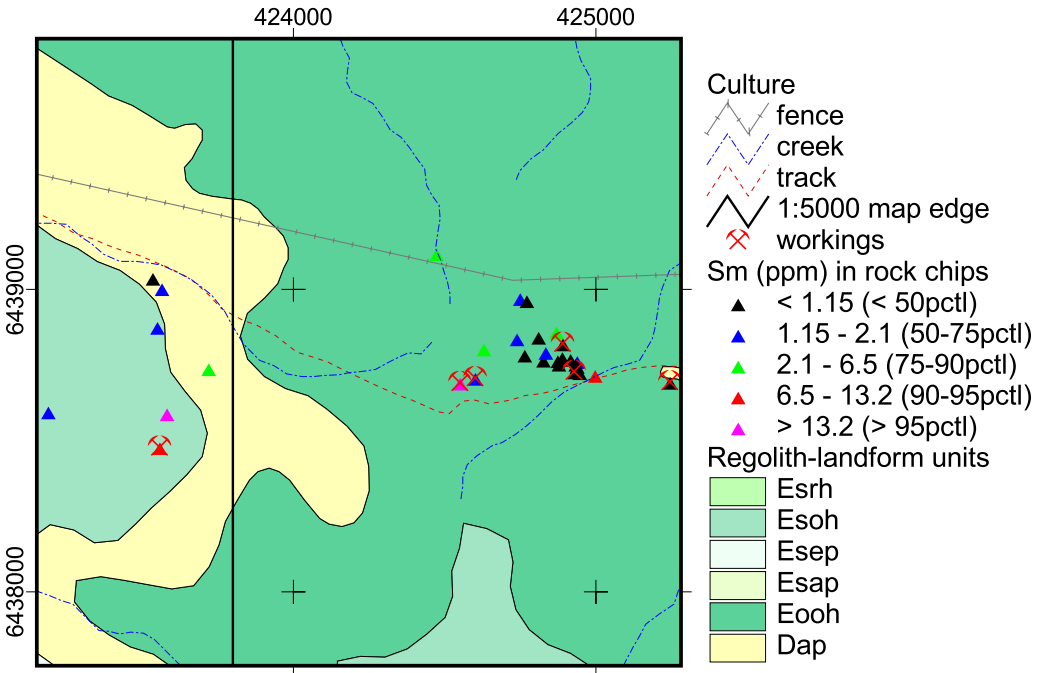


Figure A2.6.44. Distribution of Sm (ppm) in rock chip samples

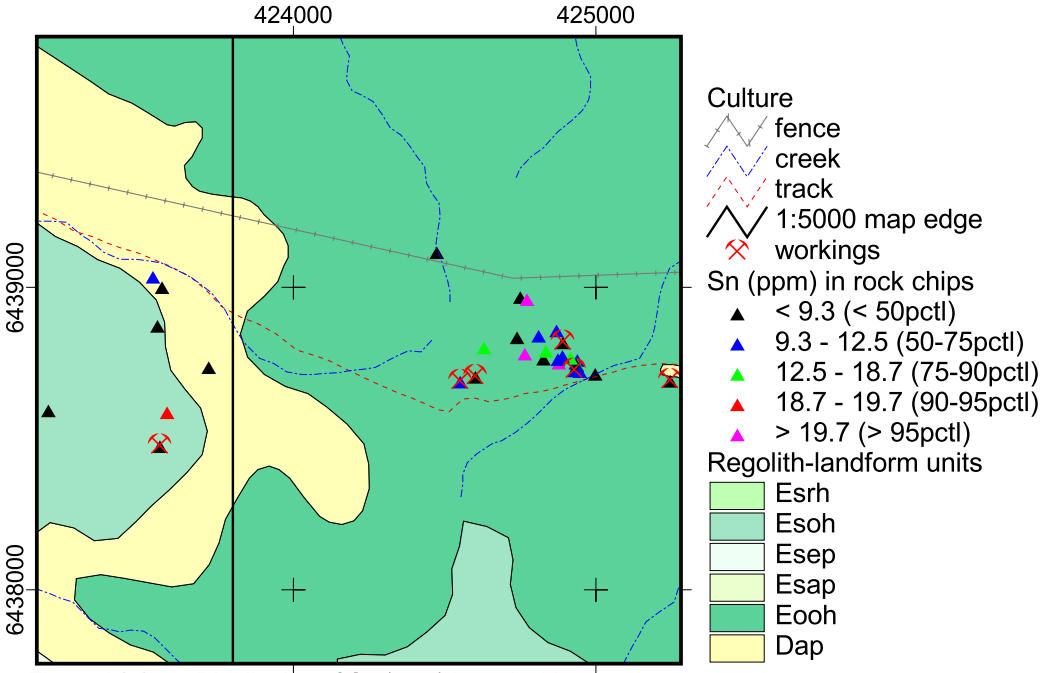


Figure A2.6.45. Distribution of Sn (ppm) in rock chip samples

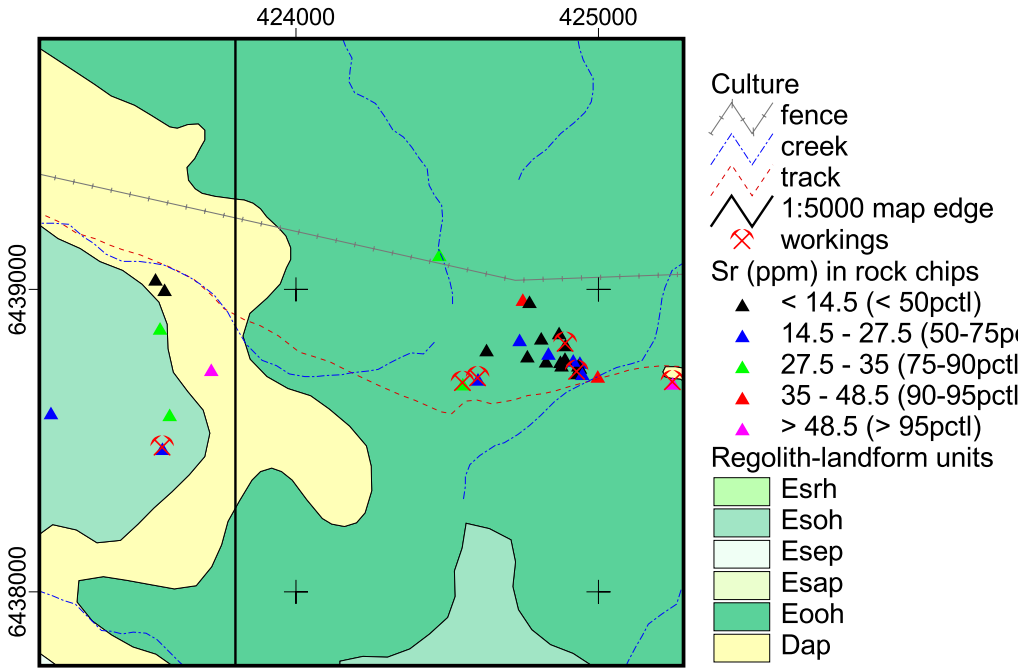


Figure A2.6.46. Distribution of Sr (ppm) in rock chip samples

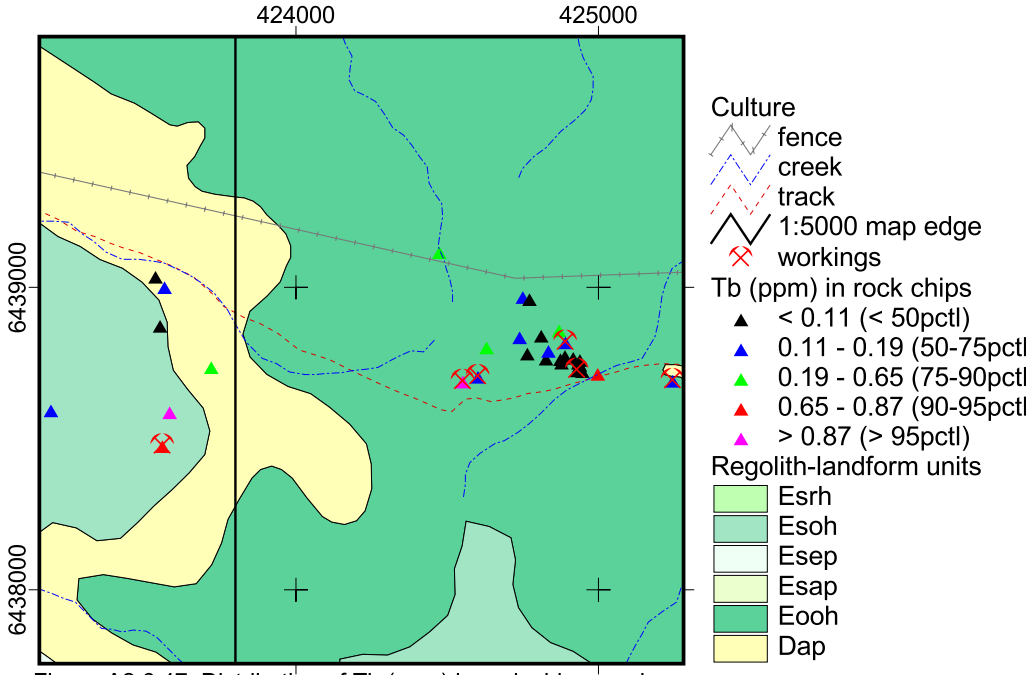


Figure A2.6.47. Distribution of Tb (ppm) in rock chip samples

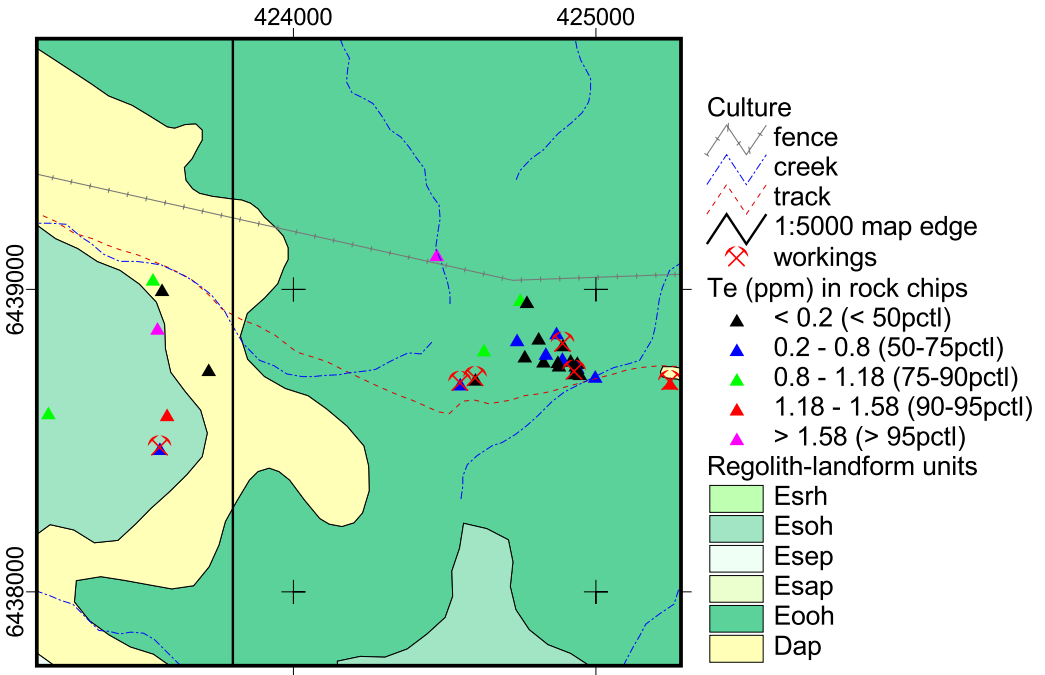


Figure A2.6.48. Distribution of Te (ppm) in rock chip samples

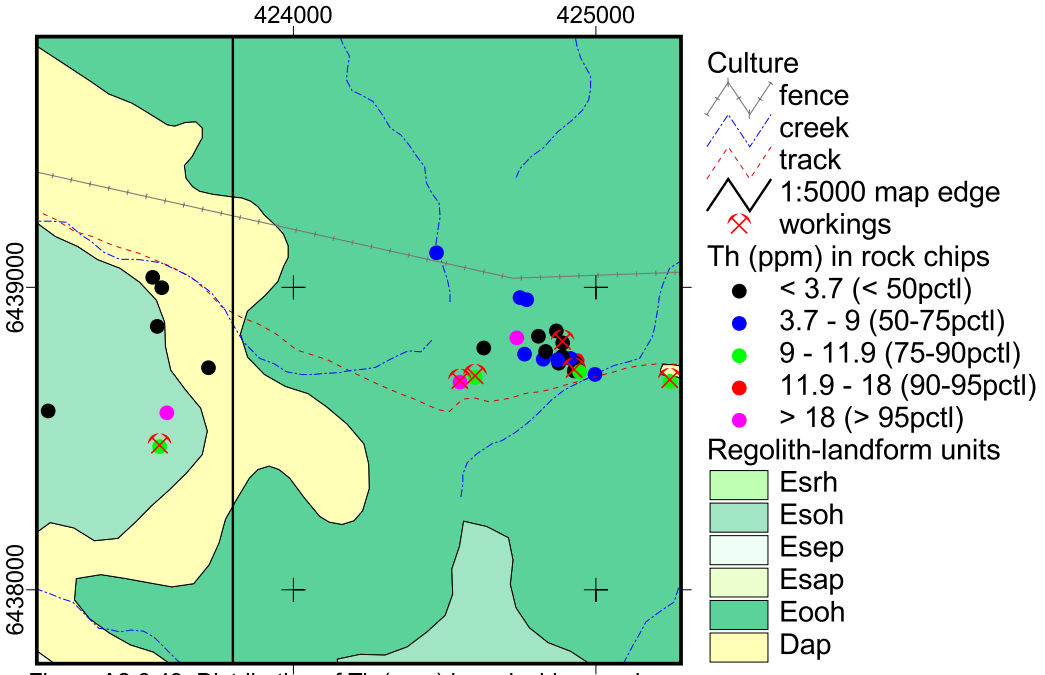


Figure A2.6.49. Distribution of Th (ppm) in rock chip samples

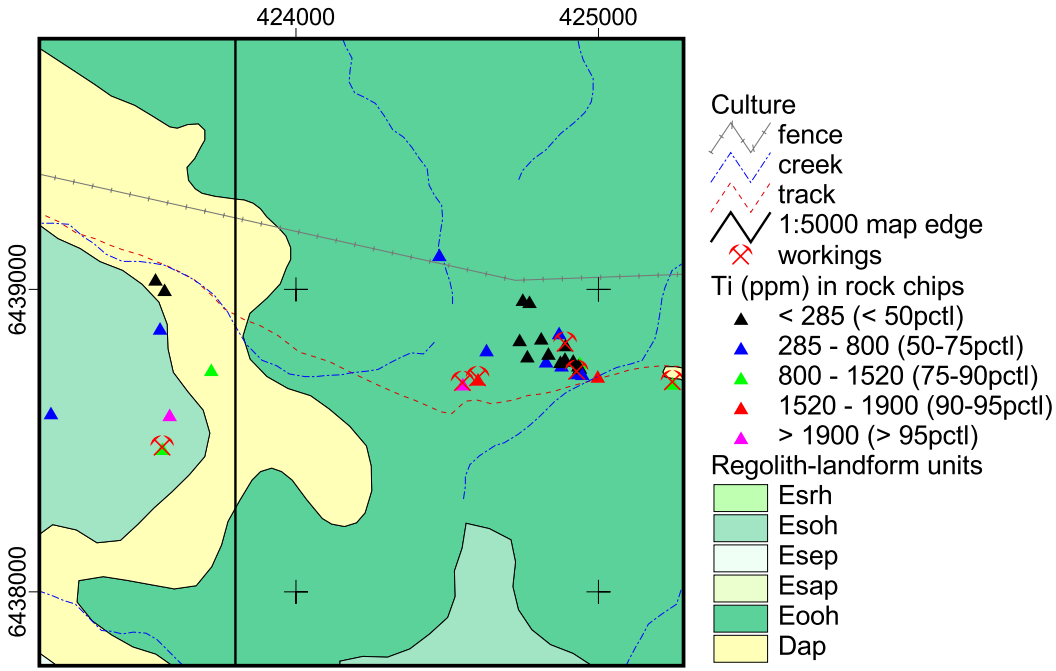


Figure A2.6.50. Distribution of Ti (ppm) in rock chip samples

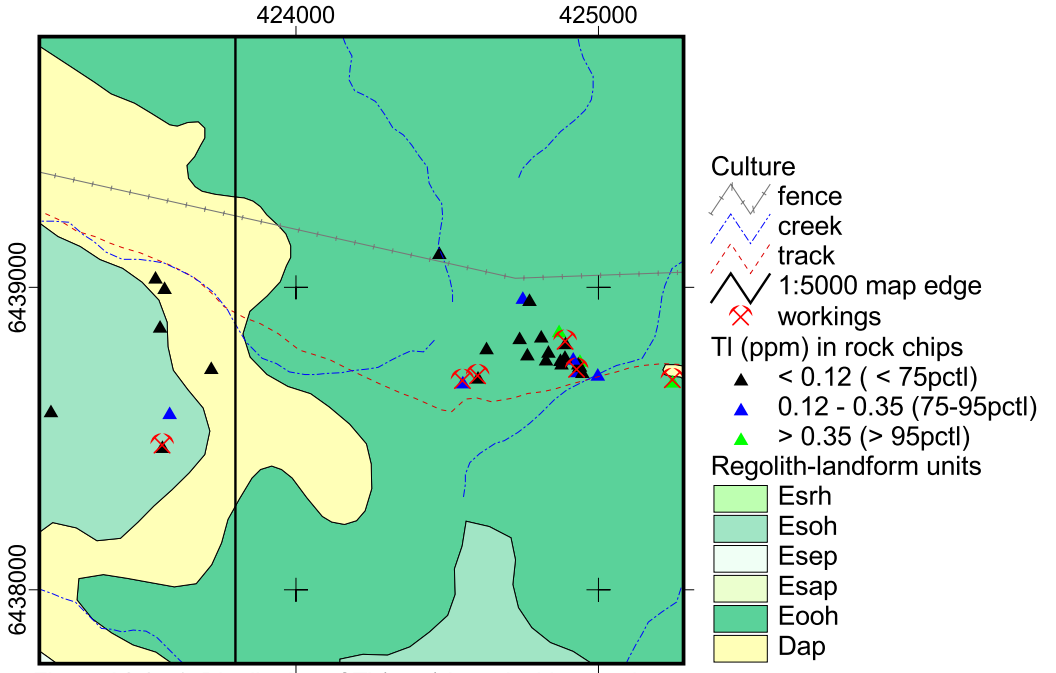


Figure A2.6.51. Distribution of Tl (ppm) in rock chip samples

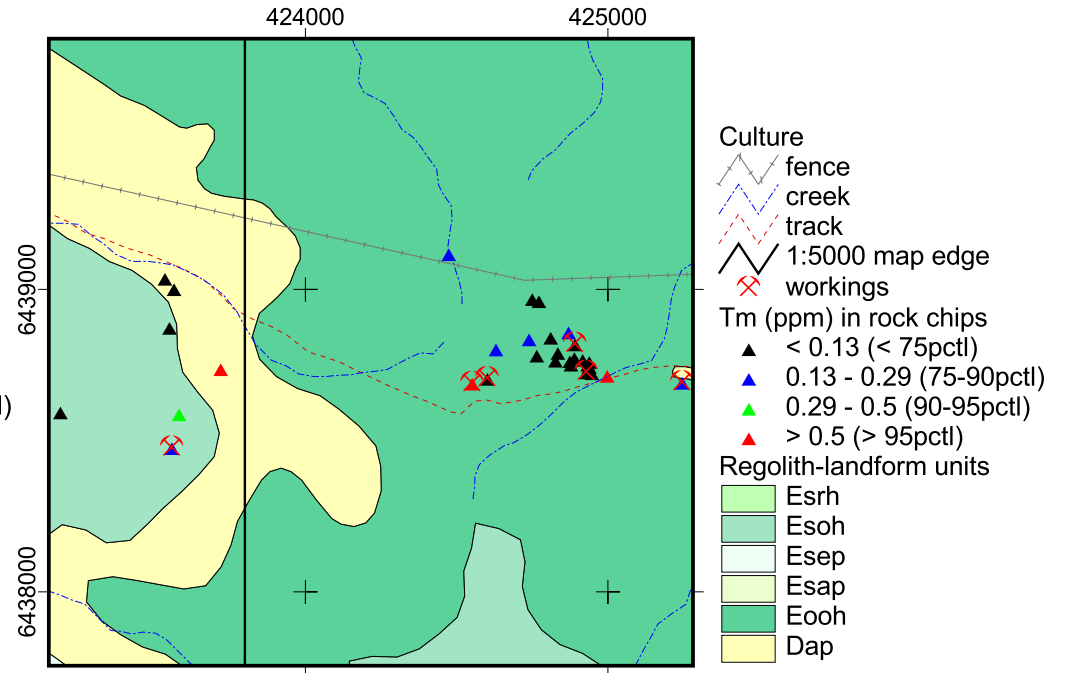


Figure A2.6.52. Distribution of Tm (ppm) in rock chip samples

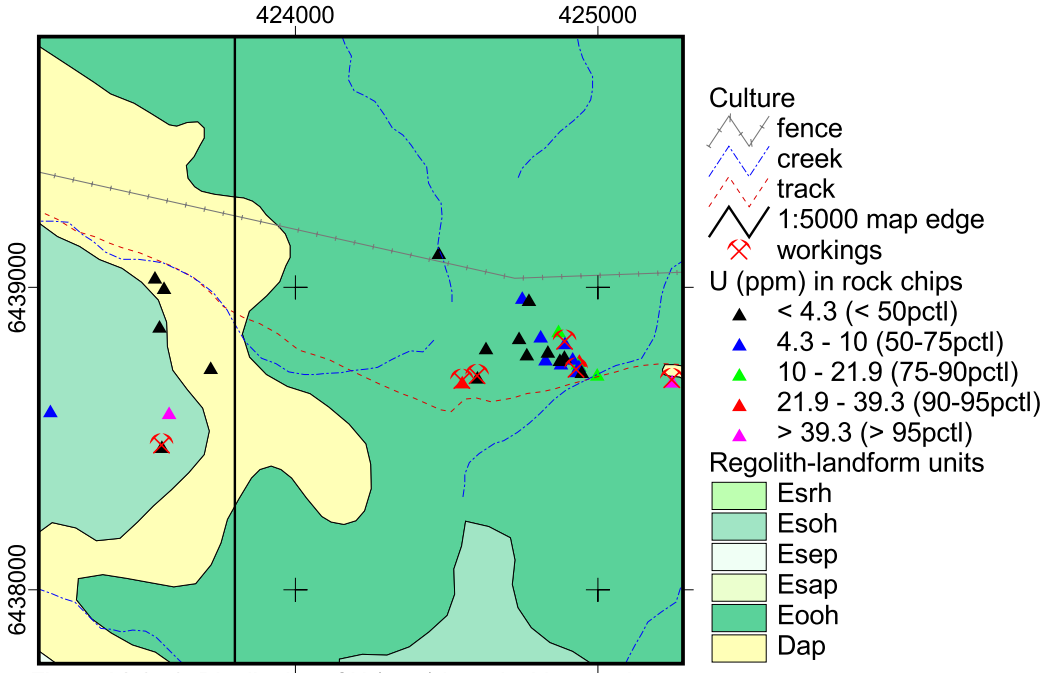


Figure A2.6.53. Distribution of U (ppm) in rock chip samples

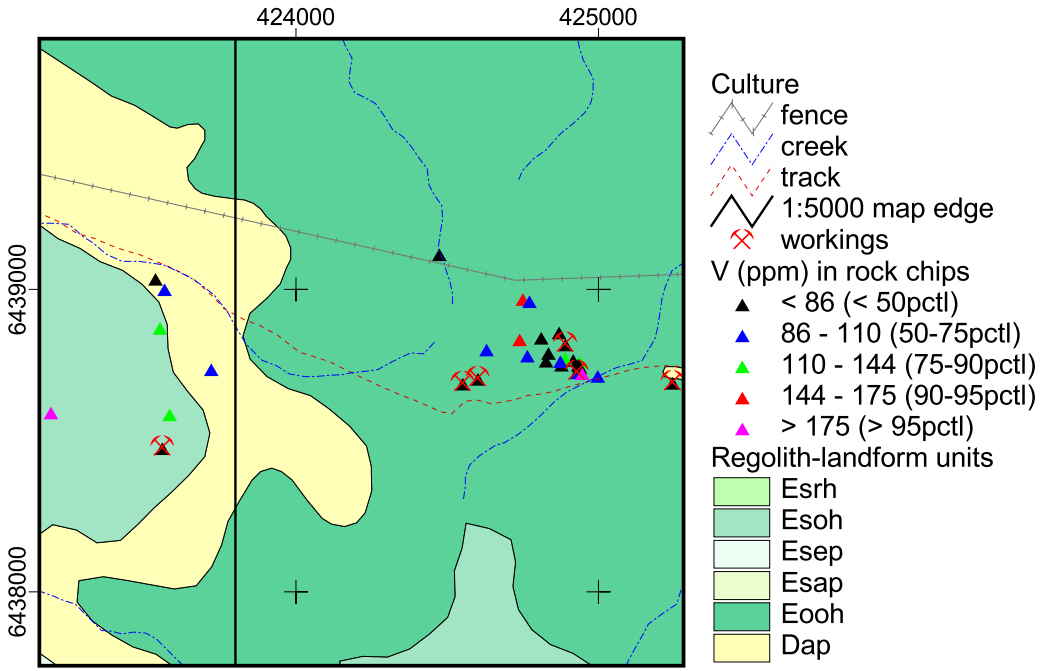


Figure A2.6.54. Distribution of V (ppm) in rock chip samples

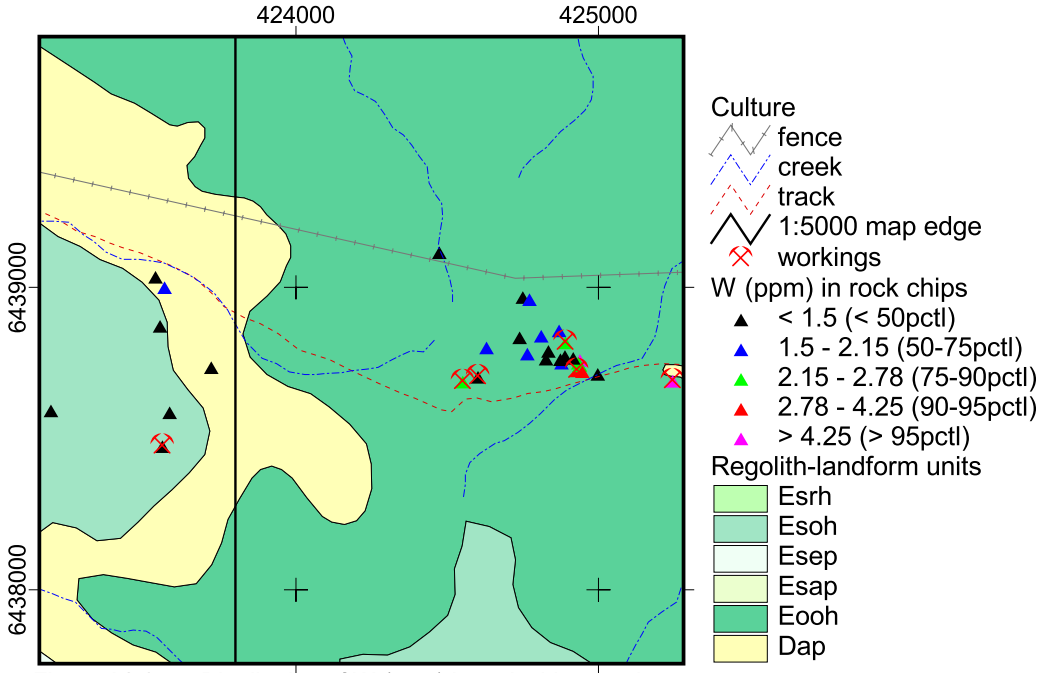


Figure A2.6.55. Distribution of W (ppm) in rock chip samples

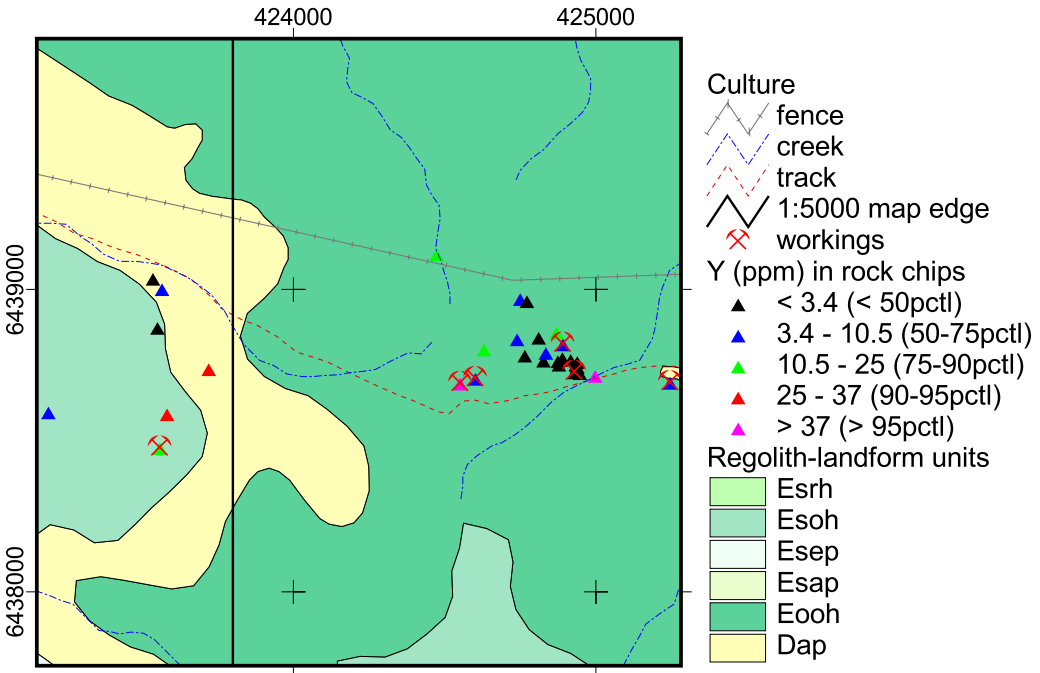


Figure A2.6.56. Distribution of Y (ppm) in rock chip samples

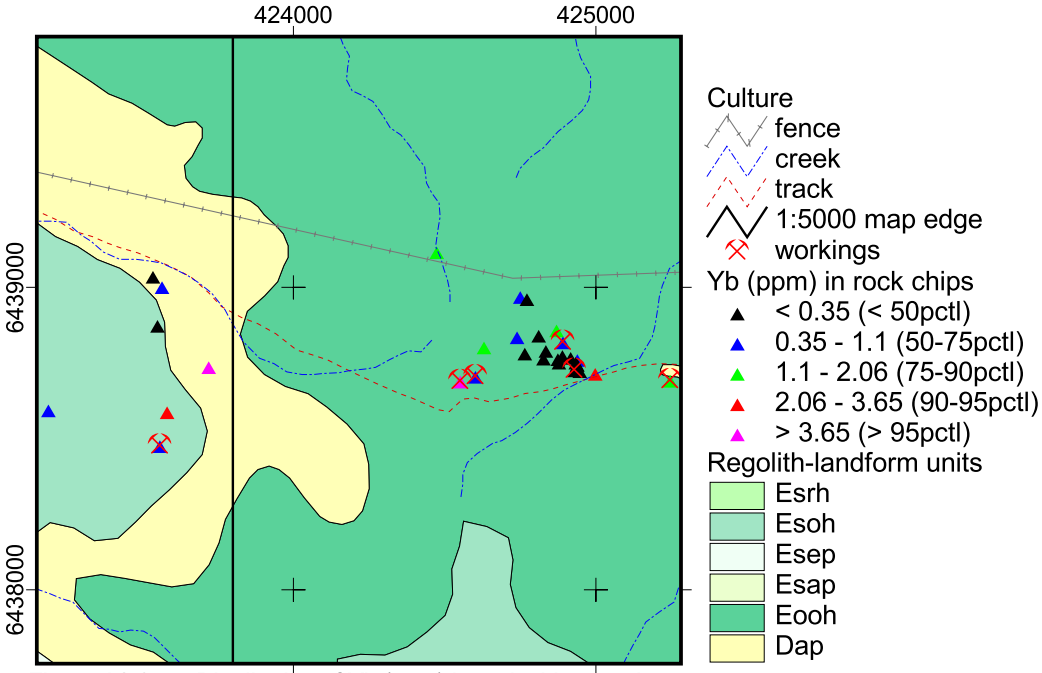


Figure A2.6.57. Distribution of Yb (ppm) in rock chip samples

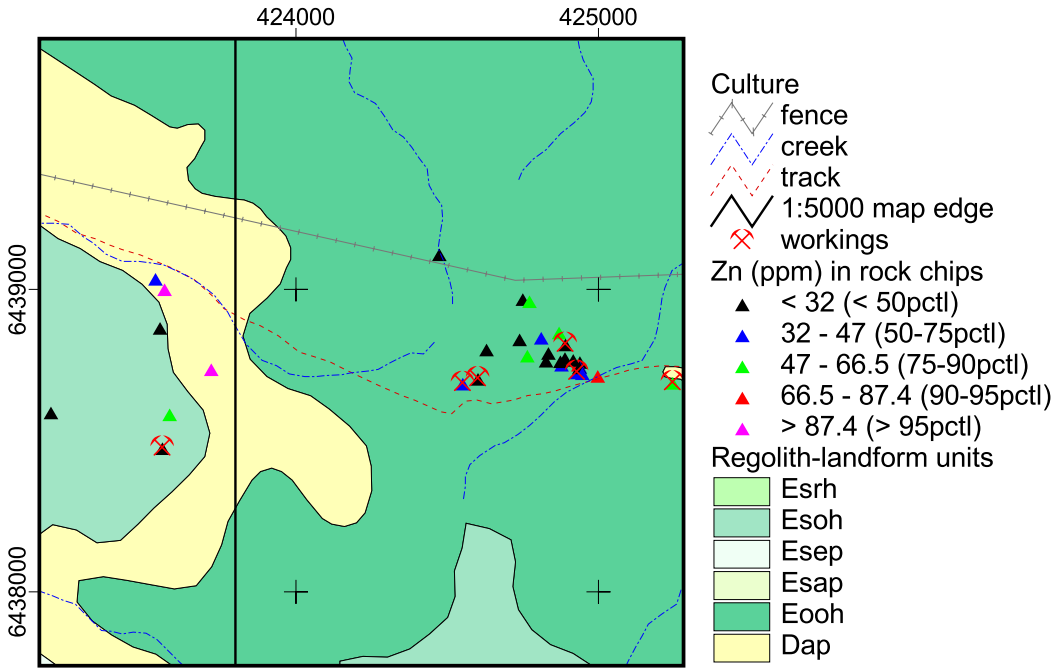


Figure A2.6.58. Distribution of Zn (ppm) in rock chip samples

Appendix 2.7
Analyses of orientation soil samples

Appendix 2.7

Faugh-a-Ballagh soils

						Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo
						Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
						Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3M	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3M	IC3E	IC3M
						LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5	0.02	10	5	0.1
Sample_no	Field_no	Northing	Easting	Error	Fraction	Description																													
R447924	FABS1	6438750	424940	3.9	-6mm	adj. to ironstone with abundant malachite staining	0.2	77000	1.5	2		200	0.2	2450	-0.1	76	25.5	50	1.7	1000	2.3	1	1.15	74500	24	3.9	4	0.37	0.05	16600	43.5	0.16	4350	180	1.1
R446347	FABS1	6438750	424940	3.9	-6+2mm		0.3	73400	2.5	5		175	0.5	1500	-0.1	41	24.5	49	1.5	950	1.1	0.5	0.62	91600	24.5	1.55	3	0.18	0.1	16800	29	0.09	3000	150	1.7
R446348	FABS1	6438750	424940	3.9	-2+0.5mm		0.2	62500	2	2		115	0.3	1700	-0.1	41	19	39	1.2	550	1.05	0.4	0.57	77700	23	1.6	3	0.15	0.05	13900	26	0.08	2100	100	1.2
R446349	FABS1	6438750	424940	3.9	-0.5mm+180µm		0.2	73600	2	3		145	0.3	1850	-0.1	59	21	51	2	850	1.5	0.65	0.86	90500	24.5	2.3	3	0.25	0.05	14500	41.5	0.12	3600	150	1.3
R446350	FABS1	6438750	424940	3.9	-180+75µm		0.3	74700	2.5	2		240	0.3	2450	-0.1	120	22	54	3.2	1250	2.6	1	1.5	62700	24.5	4.4	3	0.41	0.05	18100	82	0.17	6150	250	1.4
R446351	FABS1	6438750	424940	3.9	-75µm		0.3	86100	9.5	6		320	0.4	3400	-0.1	160	28.5	59	4.8	1750	5	2.1	2.5	55000	32	8.5	6	0.8	0.1	22100	110	0.34	7800	300	2.2
R447925	FABS2	6438745	424938	3.9	-6mm		0.2	75700	1	6		210	0.3	3300	-0.1	77	30.5	52	1.8	900	2.5	1.1	1.2	74300	23	4.2	4	0.41	0.05	16700	45.5	0.19	5000	210	1.1
R446352	FABS2	6438745	424938	3.9	-6+2mm		0.2	66000	4	4		160	0.3	2000	-0.1	73	24.5	50	1.7	850	1.85	0.75	1.05	69800	26.5	3.2	3	0.27	0.05	15700	50	0.13	3550	160	1.4
R446353	FABS2	6438745	424938	3.9	-2+0.5mm		0.2	57300	3	3		105	0.3	2100	-0.1	46	19.5	43	1.3	600	1.4	0.6	0.75	75100	26.5	2.3	3	0.22	0.05	13000	29.5	0.11	2450	115	1.3
R446354	FABS2	6438745	424938	3.9	-0.5mm+180µm		0.2	69600	3	-1		150	0.2	2500	-0.1	70	21	55	2.1	750	2.2	0.9	1.1	94300	28	3.5	3	0.35	0.05	14400	46	0.16	4000	195	1.5
R446355	FABS2	6438745	424938	3.9	-180+75µm		0.2	68700	4.5	3		240	0.3	3050	-0.1	120	23	54	3.1	1000	3.2	1.25	1.7	63900	26.5	6	3	0.47	0.05	17700	83	0.2	6350	260	1.4
R446356	FABS2	6438745	424938	3.9	-75µm		0.3	79600	7	6		320	0.3	4250	-0.1	140	28.5	53	4.6	1200	4.6	1.95	2.2	53400	30.5	7	6	0.74	0.05	21800	94	0.32	8050	320	1.9
R447926	FABS3	6438739	424936	3.9	-6mm	adj. to ironstone	0.2	75000	1.5	6		230	0.2	3000	-0.1	105	34.5	56	2	700	3.2	1.35	1.5	88100	25	5.5	4	0.52	0.05	16700	60	0.22	5250	250	1.2
R446357	FABS3	6438739	424936	3.9	-6+2mm		0.2	71200	4.5	18	48	195	0.3	2250	-0.1	65	38.5	48	2	700	2.1	0.9	1.05	86600	30	3.4	3	0.36	0.1	16400	46	0.18	3850	200	2
R446358	FABS3	6438739	424936	3.9	-2+0.5mm		0.1	64700	4	7		135	0.3	2300	-0.1	61	31.5	44	1.8	600	2	0.85	0.99	95000	27.5	3.2	3	0.31	0.05	14000	42.5	0.16	3300	185	1.3
R446359	FABS3	6438739	424936	3.9	-0.5mm+180µm		0.2	76700	4.5	5		210	0.3	2800	-0.1	78	33	56	2.7	650	2.7	1.1	1.25	99000	30	4.1	3	0.43	0.05	16000	53	0.19	5150	230	1.9
R446360	FABS3	6438739	424936	3.9	-180+75µm		0.2	72200	6	6		270	0.3	3000	-0.1	115	29.5	57	3.4	800	3.6	1.4	1.8	66400	28	6	3	0.53	0.05	19000	84	0.25	7050	270	1.6
R446361	FABS3	6438739	424936	3.9	-75µm		0.3	80900	7.5	13	4	350	0.3	3900	-0.1	150	34	57	4.7	1000	5	2.1	2.4	56700	31	8	6	0.82	0.1	23000	110	0.35	8550	310	1.9
R447927	FABS4	6438732	424933	3.9	-6mm	adj. to felsic rocks	0.3	79600	4	3		250	0.2	2700	0.2	100	28.5	59	2.1	260	3.1	1.3	1.55	63900	25.5	5.5	5	0.49	0.05	18200	59	0.22	6000	230	1.1
R446362	FABS4	6438732	424933	3.9	-6+2mm		0.2	73300	3.5	3		220	0.2	2250	-0.1	83	26	46	2.2	195	2.4	0.95	1.3	52300	29	4	4	0.36	0.05	18700	56	0.17	4800	185	1.2
R446363	FABS4	6438732	424933	3.9	-2+0.5mm		0.2	68000	3	2		135	0.2	2200	-0.1	60	22.5	48	1.7	175	1.65	0.7	0.89	66800	27	2.7	3	0.25	0.05	14500	38.5	0.1	3300	140	1
R446364	FABS4	6438732	424933	3.9	-0.5mm+180µm		0.2	79000	4	2		220	0.2	2500	-0.1	80	29	55	2.6	260	2.6	1.05	1.3	86900	29.5	4.2	4	0.4	0.05	17200	52	0.19	5700	230	1.3
R446365	FABS4	6438732	424933	3.9	-180+75µm		0.2	75000	4.5	3		290	0.2	2700	-0.1	115	27	53	3.5	300	3.4	1.35	1.8	62100	29.5	6	3	0.55	0.05	20400	78	0.22	7650	290	1.7
R446366	FABS4	6438732	424933	3.9	-75µm		0.2	81300	7.5	4		380	0.3	3450	-0.1	165	30.5	55	4.5	360	5.5	2.1	2.6	53300	29.5	8.5	7	0.85	0.05	23900	120	0.35	8900	330	1.3
R447928	FABS5	6438723	424927	3.9	-6mm	adj. to felsic rocks	0.2	75700	4	2		240	0.2	2900	-0.1	105	24	55	2.1	170	3.3	1.4	1.65	72800	24.5	6	5	0.53	0.05	17800	62	0.22	6150	260	1
R446367	FABS5	6438723	424927	3.9	-6+2mm		0.2	77300	2.5	1		230	0.2	2550	-0.1	81	24.5	53	2.5	145	2.5	1	1.3	69000	28	4.3	4	0.4	0.05	17900	56	0.18	5200	230	1.1
R446368	FABS5	6438723	424927	3.9	-2+0.5mm		0.2	68800	3.5	2		150	0.2	2250	-0.1	63	27.5	50	1.8	125	2	0.85	0.95	79000	27.5	3.1	3	0.31	0.05	14700	42.5	0.15	3650	170	1.2
R446369	FABS5	6438723	424927	3.9	-0.5mm+180µm		0.1	73200	4.5	1		195	0.2	2450	-0.1	85	24.5	58	2.4	155	2.5	1.1	1.25	101000	28	4.2	3	0.39	-0.05	15200	56	0.17	5450	230	1.3
R446370	FABS5	6438723	424927	3.9	-180+75µm		0.2	67600	4.5	1		260	0.2	2750	-0.1	110	22	55	3.3	180	3.2	1.3	1.6	66200	26	5.5	3	0.51	0.05	18600	74	0.22	7350	300	1.2
R446371	FABS5	6438723	424927	3.9	-75µm		0.3	76000	6	5		360	0.3	3550	0.1	160	23.5	52	4.5	230	5	2.2	2.6	52900	27.5	9	7	0.82	0.05	23200	120	0.38	8900	360	1.3
R447929	FABS6	6438707	424923	3.9	-6mm	adj. to granite outcrops	0.3	76300	3.5	1		250	0.2	4350	-0.1	82	19.5	45	2.3	61	3.3	1.5	1.35	54700	23.5	5	5	0.57	0.05	20000	48	0.25	6850	300	0.9
R446372	FABS6	6438707	424923	3.9	-6+2mm		0.2	70900	3	2		210	0.2	3900	-0.1	81	18	37	2.4	46	2.6	1.1	1.2	46100	27	3.9	4	0.44	0.05	19700	55	0.19	5200	240	0.9
R446373	FABS6	6438707	424923	3.9	-2+0.5mm		0.1	74400	2	2		175	0.2	3650	-0.1	69	21	37	1.7	50	2.2	0.9	1	53200	25	3.6	3	0.35	-0.05	17400	47	0.16	3700	200	0.8
R446374	FABS6	6438707	424923	3.9	-0.5mm+180µm		0.2	78400	2	-1		210	0.2	3900	-0.1	74	23.5	47	2.5	59	2.8	1.15	1.1	79400	26.5	3.9	4	0.43	0.05	18700	50	0.2	5950	280	1.2
R446375	FABS6	6438707	424923	3.9	-180+75µm		0.2	69900	4	1		250	0.3	4600	-0.1	90	21	46	3.6	61	3.5	1.5	1.45	61100	26.5	5	3	0.57	0.05	19900	65	0.25	8350	350	1.2
R446376	FABS6	6438707	424923	3.9	-75µm		0.3	71200	5.5	2	2	330	0.3	4750	-0.1	115	20.5	45	4.5	70	4.6	2.1	1.9	46200	26.5	6.5	6	0.82	0.05	22200	82	0.34	8750	380	1.1
R447930	FABS7	6438754	424940	3.9	-6mm	adj. to felsic rocks	0.2	79400	3	1		240	0.2	2550	-0.1	120	25.5	46	2	700	3	1.25	1.65	55300	25.5	6	4	0.46	0.05	19800	68	0.19	5450	220	1
R446377	FABS7	6438754	424940	3.9	-6+2mm		0.2	71100	3	1		190	0.2	1450	-0.1	62	18.5	40	1.6	390	1.6	0.65	0.87	42700	26	2.7	3	0.24	-0.05	19500	43	0.13	3400	135	0.8
R446378	FABS7	6438754	424940	3.9	-2+0.5mm		0.2	66800	2.5	-1		140	0.2	1700	-0.1	54	18	37	1.6	400	1.5	0.6	0.78	53800	26	2.3	3	0.23	-0.05	16700	36.5	0.11	2900	120	0.9
R446379	FABS7	6438754	424940	3.9	-0.5mm+180µm		0.2	73100	3.5	2		200	0.2	2000	-0.1	76	27.5	47	2.3	700	2.2	0.95	1.05	70100	27.5	3.6	3	0.35	0.05	17800	52	0.17	4800	200	1.5
R446380	FABS7	6438754	424940	3.9	-180+75µm		0.2	71700	6	2		270	0.2	2450	-0.1	185	29.5	53	3.4	950	3.9	1.5	2.3	56400	28	8	3	0.58	0.05	20900	130	0.23	7200	300	1.5
R446381	FABS7	6438754	424940	3.9	-75µm		0.3	75600	9.5	3		350	0.3	3200	0.1	195	38.5	55	4.7	1150	5.5	2.2	2.7	53300	32	9	6	0.85	0.1	24300	135	0.37	8400	350	2.1
R447931	FABS8	6438759	424942	3.9	-6mm	adj. to felsic rocks	0.2	78800	3	-1		260	0.1	2650	-0.1	90	17	42	2.2	310	2.7	1.2	1.3	48700	24.5	4.6	4	0.43	0.05	20500	51	0.2	5450	250	1
R446382	FABS8	6438759	424942	3.9	-6+2mm		0.2	78100	3.5	-1		260	0.2	1900	-0.1	80	15.5	39	2.5	230	2.1	0.8	1	42700	29	3.4	4	0.34	0.05	22200	54	0.16	4600	210	1
R446383	FABS8	6438759	424942	3.9	-2+0.5mm		0.2	68500	2.5	-1		155	0.2	1650	-0.1	105	11.5	31	1.6	190	1.75	0.6	1.05	42900	26.5	3.9	3	0.24	0.05	18100	67	0.11	2650	120	0.8
R446384	FABS8	6438759	424942	3.9	-0.5mm+180µm		0.2	68700	3.5	-1		185	0.2	1750	-0.1	84	16	38	2.3	300	2.1	0.85	1.1	59300	27	3.5	3	0.34	-0.05	18000	55	0.15	4100	195	1.1
R446385	FABS8	6438759	424942	3.9	-180+75µm		0.2	70600	4.5	1		280	0.2	2500	0.2	145	19.5	44	3.4	380	3.4	1.3	1.8	49100	26.5	6	3	0.5	0.05	20700	95	0.21	6750	310	1.3
R446386	FABS8	6438759	424942	3.9	-75µm		0.3	77700	6	-1		350	0.3	3150	0.1	140	24	53	4.7	390	4.4	1.9	2.1	45900	28.5	7	5	0.75	0.1	23700	96	0.32	8050	390	1.6
R447932	FABS9	6438766	424946	3.9	-6mm		0.2	76400	3	6		240	0.1	3000	-0.1	74	17	48	1.8	250	2.6	1.2	1.15	59800	22.5	4.1	4	0.44	0.05	17100	42.5	0.2	5200	230	1
R446387	FABS9	6438766	424946	3.9	-6+2mm		0.2	71800	3	17		240	0.2	2300	-0.1	70	19	42	2	200	2.1	0.9	1.05	66400	25.5	3.7	4	0.34	0.05	17900	48	0.19	4050	190	1.2
R446388	FABS9	6438766	424946	3.9	-2+0.5mm		0.1	61500	2	2		135	0.2	2150	-0.1	50	13	29	1.4	145	1.65	0.7	0.68	56000	24	2.5	3	0.25	-0.05	14300	34.5	0.12	2450	110	0.9
R446389	FABS9	6438766	424946	3.9	-0.5mm+180µm		0.2	65300	2	1		155	0.2	2100	-0.1	67	19.5	43	2	220	2.1	0.9	0.94	84200	25.5	3.1	3	0.35	-0.05	14400	43.5	0.17	4050	185	1.3
R446390	FABS9	6438766	424946	3.9	-180+75µm		0.2	68500	4	1		260	0.2	2700	-0.1	91	18	47	3.1	300	3	1.25	1.45	60000	25.5	4.8	4	0.48	-0.05	17800	61	0.22	6750	290	1.3
R446391	FABS9	6438766	424946	3.9	-75µm		0.3	69100	6	2		360	0.3	3300	0.2	125	21.5	52	4.6	340	4.4	1.95	1.85	48100	27	6.5	6	0.75	0.05	22900	84	0.35	8650	370	1.6
R447933	FABS10	6438779	424951	5.7	-6mm	adj. to graniteoutcrops	0.2	81700	2.5	-1	-1	200	0.1	2850	-0.1	65	7.5	44	1.8	165	2.2	0.95	0.98	35000	22.5	3.4	5	0.35	0.05	16000	36.5	0.17	5550	210	0.9
R446392	FABS10	6438779	424951	5.7	-6+2mm		0.2	68200	2.5	-1	-1	165	0.1	2050	-0.1	53	5.5	40	1.8	110	1.65	0.7	0.82	25700	25.5	2.7	4	0.27	0.05	16600	38	0.14	4000	140	0.9
R446393	FABS10	6438779	424951	5.7	-2+0.5mm		0.1	45600	1.5	-1		90	0.1	2250	-0.1	24.5	4.5	27	1.1	89	0.89	0.35	0.42	26700	22.5	1.35	3	0.15	-0.05	10800	15.5	0.08	2000	90	0.7
R446394	FABS10	6438779	424951	5.7	-0.5mm+180µm		0.2	61200	3.5	-1		130	0.2	2250	-0.1	55	8.5	44	2.4	170	1.65	0.7	0.76	43200	25	2.4	3	0.27	0.05	14500	35.5	0.14	5200	180	1.1
R446395	FABS10	6438779	424951	5.7	-180+75µm		0.4	72000	3	-1		270	0.2	2550	-0.1	98	11.5	65	2.9	230	2.6	1.05	1.4	43000	25	4.5	4	0.42	0.05	20400	59	0.2	8350	300	1.6
R446396	FABS10	6438779	424951	5.7	-75µm		0.5	86100	5.5	-1		360	0.3	3400	-0.1	140	13.5	70	3.9	250	4.3	1.85	2	45500	29	7	8	0.7	0.1	24100	84	0.35	9150	370	2.4
R447934	FABS11	6438792	424956	5.3	-6mm	adj. to felsic outcrops with dissem. mgt	0.2	77500	2.5	-1		230	0.1	3350	-0.1	59	11.5	37	1.8	250	2.5	1.15	1	36600	22.5	3.6	4	0.43	0.05	16600	33.5	0.21	5800	240	0.8
R446397	FABS11	6438792	424956	5.3	-6+2mm		0.3	73600	2.5	2		220	0.2	2450	-0.1	49.5	16	48	1.5	200	1.8	0.8	0.84	38900	22	2.7	4	0.31	0.1	17100	32	0.16	4300	220	1.3
R446398	FABS11	6438792	424956	5.3	-2+0.5mm		0.2	61900	4.5	-1		120	0.2	2700	-0.1	40	10.5	32	1.1	145	1.5	0.65	0.65	30400	21.5	2.3	3	0.26	-0.05	12000	24	0.14	2600	140	1.3
R446399	FABS11	6438792	424956	5.3	-0.5mm+180µm		0.2	74500	2.5	1		195	0.2	3050	-0.1	58	11.5	47	1.9	260	2.3	1	0.94	45300	24	3.2	3	0.37	0.1	15800	35.5	0.19	6100	250	1.1
R446400	FABS11	6438792	424956	5.3	-180+75µm		0.3	66200	3.5	-1		260	0.2	2950	-0.1	68	14.5	56	2.7	320	2.6	1.15	1.15	42800	25	3.8	3	0.45	0.05	19200	42	0.22	8150	320	1.2
R446401	FABS11	6438792	424956	5.3	-75µm		0.4	78100	6	2		370	0.3	3700	0.1	120	16.5	47	3.5	350	4.8	2.1	1.8	45500	27	6.5	9	0.84	0.1	23700	74	0.43	8600	400	1.8
R447935	FABS12	6438657	424907	5.2	-6mm	on S bank of creek; felsic rocks	0.2	76400	2.5	-1		240	-0.1	3650	-0.1	88	13.5	54	2.2	21	2.9	1.15	1.35	42400	23	5	5	0.45	-0.05	21700	51	0.19	6300	250	0.5
R446402	FABS12	6438657	424907	5.2	-6+2mm		0.3	72400	1.5	-1		230	0.2	3000	-0.1	78	16.5	41	1.9	15	2.2	0.85	1.25	37100	24.5	4	4	0.34	0.05	23800	52	0.15	4850	200	0.7
R446403	FABS12	6438657	424907	5.2	-2+0.5mm		0.2	54900	1.5	-1		140	0.1	3050	-0.1	73	11	41	1.3	12	2	0.65	1.05	37000	23	3.8	4	0.26	-0.05	19700	41.5	0.11	2850	155	0.6
R446404	FABS12	6438657	424907	5.2	-0.5mm+180µm		0.3	67900	3	-1	-1	175	0.2	2900	-0.1	105	21	54	2.6	20	2.8	1.1	1.4	51600	27.5	5	4	0.42	0.05	22500	64	0.18	6300	250	1
R446405	FABS12	6438657	424907	5.2	-180+75µm		0.3	65900	4	-1		280	0.2	3100	-0.1	100	16.5	43	3.2	26	3	1.3	1.4	43200	23	4.8	4	0.52	0.05	21700	63	0.21	8850	350	0.7
R446406	FABS12	6438657	424907	5.2	-75µm		0.3	72100	5	-1		330	0.3	3650	0.1	120	16.5	46	4	29	4.5	1.9	1.85	41700	23	6.5	6	0.77	0.05	21300	78	0.34	9050	390	1

Appendix 2.7

Faugh-a-Ballagh soils

	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																										
R447924	27600	10	35	19	370	5	9.5	89	150	-0.5	0.5	6.5	6	62	0.4	-0.2	23.5	3100	0.5	0.15	4.3	86	2.3	11	1.1	26
R446347	30000	10	16	20	320	10	4.5	87	150	-0.5	0.5	2.9	7	50	0.19	0.2	20	2400	0.4	0.1	4.9	86	3.4	6.5	0.6	20
R446348	42100	-5	16	17	330	5	4.4	64	100	-0.5	-0.5	3.1	4.8	59	0.17	0.2	16	1950	0.3	0.05	3.7	75	2.2	5.5	0.55	16
R446349	34900	5	23.5	23	360	10	6.5	85	200	-0.5	-0.5	4.4	4.7	64	0.27	0.2	21.5	2600	0.4	0.1	4.2	100	2.2	9	0.75	23
R446350	18400	10	47	26	410	10	13	105	150	-0.5	-0.5	8.5	6	59	0.47	-0.2	29	4450	0.6	0.15	4	100	2.8	14.5	1.05	37
R446351	9050	10	72	29	550	15	21	105	250	-0.5	1	13.5	6	98	0.91	-0.2	35	5800	0.8	0.35	6.5	110	3.4	20	2.4	52
R447925	26400	10	35	21	360	-5	9.5	90	200	-0.5	0.5	6.5	6	69	0.43	-0.2	21.5	3300	0.5	0.2	4.6	90	2.1	12	1.25	29
R446352	29700	5	30	17	310	10	9	69	150	-0.5	0.5	5.5	7	67	0.35	-0.2	16.5	2600	0.4	0.1	4.9	88	3.1	7.5	0.9	21
R446353	38800	5	20.5	18	310	-5	6	51	150	-0.5	0.5	3.8	5	73	0.26	0.2	12	1950	0.3	0.1	4.5	80	4.2	5	0.7	16
R446354	30800	5	31	24	330	10	8.5	67	200	-0.5	1	5.5	4.9	81	0.41	-0.2	17.5	2800	0.4	0.15	4.3	105	2.1	9	1.05	25
R446355	17300	10	54	26	380	10	15.5	83	200	-0.5	1	10	6	75	0.62	-0.2	21	4400	0.6	0.2	4.2	100	2.6	11.5	1.35	50
R446356	8950	10	64	27	480	20	18	99	250	-0.5	1	12	6.5	105	0.83	-0.2	30	5650	0.8	0.3	5.5	105	3.2	18.5	2.3	54
R447926	22700	10	47	27	360	5	12.5	95	350	-0.5	0.5	8.5	6	72	0.57	-0.2	26.5	3450	0.5	0.2	5	94	2.1	15.5	1.45	31
R446357	25600	5	30	24	310	10	8.5	68	400	-0.5	1	5.5	6	73	0.4	0.2	19	2850	0.4	0.15	6	84	2.4	8.5	1.05	25
R446358	31800	5	28	23	310	10	8	61	250	-0.5	-0.5	5.5	4.9	82	0.37	0.2	16.5	2300	0.4	0.15	4.8	82	1.9	8	1.05	23
R446359	25600	5	34.5	28	350	10	10	75	300	-0.5	1	6.5	5.5	81	0.48	-0.2	18.5	3300	0.5	0.15	4.7	110	1.9	10.5	1.3	30
R446360	15500	10	55	29	370	15	16	86	300	-0.5	-0.5	10	6	75	0.66	-0.2	22	4800	0.7	0.2	4.5	105	2.4	13.5	1.6	42
R446361	8400	10	73	32	480	20	20.5	99	350	-0.5	-0.5	14	6.5	98	0.94	-0.2	32.5	5850	0.7	0.35	6	115	2.8	20	2.4	54
R447927	24500	10	47	24	310	-5	12.5	105	150	-0.5	0.5	9	6	73	0.56	-0.2	25.5	3750	0.6	0.2	3.5	96	4.3	15	1.4	31
R446362	27900	5	37.5	22	280	5	11	83	150	-0.5	1	7	5.5	77	0.45	-0.2	18.5	3250	0.6	0.15	3.8	86	1.9	9	1.1	24
R446363	36400	5	25.5	19	290	60	7.5	57	150	-0.5	1	4.9	4.8	69	0.31	-0.2	13	2500	0.4	0.1	3	87	1.4	6.5	0.75	19
R446364	27500	5	37	29	310	50	10.5	79	200	-0.5	-0.5	7	5	73	0.49	-0.2	20	3650	0.6	0.2	3.7	115	1.7	10.5	1.3	31
R446365	15300	10	53	31	310	20	15	94	150	-0.5	0.5	10	6	70	0.67	-0.2	21	5050	0.8	0.2	3.4	110	1.9	13	1.5	40
R446366	8400	10	80	32	430	20	23	100	250	-0.5	-0.5	15	5.5	88	1	-0.2	31.5	5950	0.8	0.35	4.8	110	1.2	20.5	2.4	53
R447928	24400	10	51	24	300	-5	13.5	100	150	-0.5	-0.5	9.5	5.5	63	0.6	-0.2	24	4050	0.6	0.2	3.5	100	2.5	16	1.5	33
R446367	26400	10	37	23	290	25	10.5	78	100	-0.5	-0.5	7	6	68	0.47	-0.2	18.5	3650	0.5	0.15	3.5	100	1.6	10.5	1.2	29
R446368	36100	5	29	22	270	25	8	60	50	-0.5	-0.5	5.5	4.6	69	0.36	-0.2	16	2650	0.4	0.15	3.4	96	1.5	8	0.9	23
R446369	28400	5	37.5	28	280	15	10.5	71	100	-0.5	-0.5	7	4.4	67	0.48	-0.2	18	3500	0.5	0.15	3.5	125	1.3	10.5	1.25	29
R446370	15900	10	48.5	28	300	20	13.5	82	100	-0.5	-0.5	9.5	5.5	63	0.62	-0.2	19	5250	0.6	0.2	3.2	110	1.7	13	1.5	39
R446371	9250	10	80	30	390	20	22.5	95	150	-0.5	-0.5	15	5.5	82	0.99	-0.2	29	6550	0.8	0.35	4.8	115	2	21	2.5	54
R447929	24700	10	40	21	300	-5	10.5	110	150	-0.5	-0.5	8	5.5	70	0.55	-0.2	22.5	3750	0.7	0.25	3.2	79	2.1	17	1.65	31
R446372	28400	10	34.5	20	270	15	10	82	100	-0.5	-0.5	6.5	5	79	0.48	-0.2	19	3050	0.6	0.2	3.2	74	1.4	11	1.3	23
R446373	36600	10	29.5	18	280	20	8.5	64	100	-0.5	-0.5	6	3.8	73	0.41	-0.2	17.5	2300	0.5	0.15	3.4	68	1.1	9	1.1	17
R446374	30900	10	33	27	300	20	9.5	78	100	-0.5	-0.5	6.5	4.2	70	0.46	-0.2	18	3150	0.6	0.2	3.3	92	1.1	11	1.4	27
R446375	18200	10	44	27	290	15	12.5	93	150	-0.5	-0.5	8.5	5	70	0.62	-0.2	19	4500	0.7	0.25	3.2	93	1.2	14.5	1.6	37
R446376	10400	15	54	26	380	15	15	94	150	-0.5	-0.5	10.5	5	86	0.76	-0.2	24	5500	0.7	0.4	3.8	96	1.5	21	2.3	51
R447930	26600	10	52	22	380	10	14	110	150	-0.5	-0.5	9.5	6	65	0.56	-0.2	25	3350	0.7	0.2	4.6	83	2.4	13.5	1.3	28
R446377	30900	10	26.5	16	270	15	7.5	78	100	-0.5	-0.5	5	6	61	0.29	-0.2	16.5	2300	0.5	0.1	4.6	70	1.9	6	0.8	17
R446378	38000	10	23	16	310	15	6.5	60	100	-0.5	-0.5	4.3	5.5	59	0.26	-0.2	12.5	2250	0.5	0.1	4.4	73	2	5	0.7	17
R446379	29500	10	32	23	350	10	9.5	79	150	-0.5	0.5	6	5	69	0.4	-0.2	19.5	3050	0.6	0.15	4.7	93	1.9	9	1	26
R446380	16300	10	79	30	430	10	23	93	150	-0.5	1	14	5.5	63	0.82	-0.2	25	4600	0.8	0.2	4.8	97	2.1	13.5	1.45	37
R446381	8750	10	84	31	550	15	24	115	250	-0.5	1.5	15.5	6.5	89	1	-0.2	36	5700	0.9	0.35	7.5	110	3	21.5	2.4	51
R447931	24900	15	39.5	21	370	5	10.5	115	150	-0.5	-0.5	7.5	6	69	0.48	-0.2	22	3650	0.7	0.2	4.8	79	2.5	13	1.35	33
R446382	26600	15	31.5	18	310	45	9	91	100	-0.5	-0.5	6	6	67	0.37	-0.2	17.5	3200	0.6	0.15	5	76	2.3	8	0.95	27
R446383	37600	10	43	13	330	5	12.5	65	150	-0.5	-0.5	7.5	4.9	62	0.38	-0.2	16	2050	0.5	0.1	4.4	62	2	5.5	0.7	15
R446384	32100	10	33	21	330	10	9.5	74	100	-0.5	1	6	4.6	68	0.38	-0.2	16.5	2800	0.5	0.15	4.8	81	1.9	8.5	0.95	26
R446385	16900	10	59	26	380	15	17	88	100	-0.5	0.5	11	5	63	0.67	-0.2	22	4450	0.7	0.2	4.8	89	1.8	12	1.45	40
R446386	9450	10	62	27	470	15	17.5	98	150	-0.5	0.5	12	5.5	87	0.81	-0.2	26.5	5500	0.9	0.3	6.5	100	2.4	18	2.3	52
R447932	27300	10	33.5	19	330	5	9	89	150	-0.5	-0.5	6.5	5	68	0.44	-0.2	21	3150	0.6	0.2	5.5	77	2.6	13	1.35	31
R446387	27400	10	29.5	18	310	15	8.5	66	150	-0.5	-0.5	6	5.5	66	0.39	-0.2	17	2850	0.5	0.15	6.5	80	2.3	8.5	1.1	24
R446388	38900	5	22.5	15	250	10	6.5	48.5	100	-0.5	-0.5	4.2	4.4	66	0.29	-0.2	13.5	1850	0.3	0.1	4	63	1.7	5.5	0.8	16
R446389	32900	10	26.5	22	290	5	7.5	60	100	-0.5	-0.5	5.5	3.9	71	0.37	-0.2	15.5	2500	0.4	0.15	4.7	86	1.7	8.5	1.1	25
R446390	19700	10	40.5	24	340	15	11.5	75	150	-0.5	-0.5	8.5	4.7	65	0.55	-0.2	19.5	4300	0.6	0.2	4.6	92	2	11.5	1.45	40
R446391	9350	10	54	26	460	20	15.5	88	200	-0.5	-0.5	10.5	5.5	86	0.75	-0.2	26	5600	0.8	0.35	6	100	2.5	18.5	2.4	57
R447933	30200	10	28.5	16	300	-5	7.5	81	150	-0.5	-0.5	5.5	4.5	72	0.38	-0.2	18	3200	0.5	0.15	5.5	66	3.7	10.5	1.1	28
R446392	34700	10	23.5	14	260	10	6.5	55	50	-0.5	-0.5	4.3	4.7	69	0.32	-0.2	14	2600	0.4	0.1	5.5	64	4.3	6	0.8	20
R446393	48100	5	11.5	10	270	10	3.1	23	50	-0.5	-0.5	2.2	2.7	64	0.18	-0.2	7.5	1900	0.2	0.05	2.7	50	3	2.8	0.45	13
R446394	35100	10	21.5	19	290	5	6	56	100	-0.5	-0.5	4.2	3.8	78	0.3	-0.2	13.5	3000	0.5	0.1	4.9	72	3	6.5	0.85	26
R446395	15900	10	41.5	26	310	10	11.5	100	150	-0.5	-0.5	7.5	5	65	0.53	-0.2	22	4700	0.7	0.15	5.5	88	1.5	13.5	1.25	42
R446396	8800	15	59	26	410	20	16.5	120	200	-0.5	-0.5	11	5.5	86	0.82	-0.2	33.5	5850	0.8	0.3	8.5	105	2	23	2.2	55
R447934	24300	10	28	17	280	-5	7.5	91	200	-0.5	-0.5	5.5	4.7	68	0.4	-0.2	18.5	3350	0.6	0.2	3	63	2.5	13	1.35	32
R446397	24100	10	23	15	230	-5	6.5	77	200	-0.5	-0.5	4.3	4.5	54	0.34	-0.2	16	3050	0.4	0.1	3.2	64	1	10	1	24
R446398	37900	5	19	11	230	-5	5.5	51	100	-0.5	-0.5	3.6	3.5	63	0.27	-0.2	14	2050	0.3	0.1	2.9	47	1.1	8	0.85	19
R446399	27800	10	26.5	20	280	10	7	83	200	-0.5	-0.5	5	4	65	0.4	-0.2	17.5	3200	0.5	0.15	3.3	68	0.9	12.5	1.15	32
R446400	15800	10	31	25	290	10	8.5	105	200	-0.5	0.5	6	4.7	70	0.46	-0.2	17.5	4600	0.7	0.2	3.1	78	1	15	1.45	45
R446401	9900	15	54	25	410	15	14.5	115	250	-0.5	-0.5	10.5	5.5	85	0.85	-0.2	30.5	6500	0.9	0.4	5.5	99	2	27	2.7	58
R447935	29200	10	41.5	22	350	5	11	105	100	-0.5	-0.5	8	6.5	65	0.52	-0.2	22	3500	0.8	0.2	2.5	79	1.6	12.5	1.25	32
R446402	31800	10	35.5	19	310	10	9.5	96	50	-0.5	-0.5	7	7	62	0.47	-0.2	19.5	3150	0.6	0.15	2.6	77	0.7	10	0.95	23
R446403	42100	5	33.5	18	300	10	9	63	-50	-0.5	0.5	6.5	5	54	0.44	-0.2	20	2100	0.5	0.1	2.3	68	0.5	7	0.7	15
R446404	36400	10	43.5	25	360	10	12	110	50	-0.5	-0.5	8.5	7	65	0.58	-0.2	24.5	3650	0.7	0.15	3.1	93	0.7	13	1.15	31
R446405	17500	10	41.5	28	370	15	11	99	150	-0.5	0.5	8	6	58	0.57	-0.2	20	4650	0.7	0.2	2.4	90	0.6	16.5	1.4	48
R446406	9550	10	54	25	460	15	14.5	96	150	-0.5	-0.5	10.5	6	76	0.82	-0.2	27	5350	0.7	0.35	3.3	93	0.8	24	2.2	62

Appendix 2.8
Element plots for orientation soil traverse

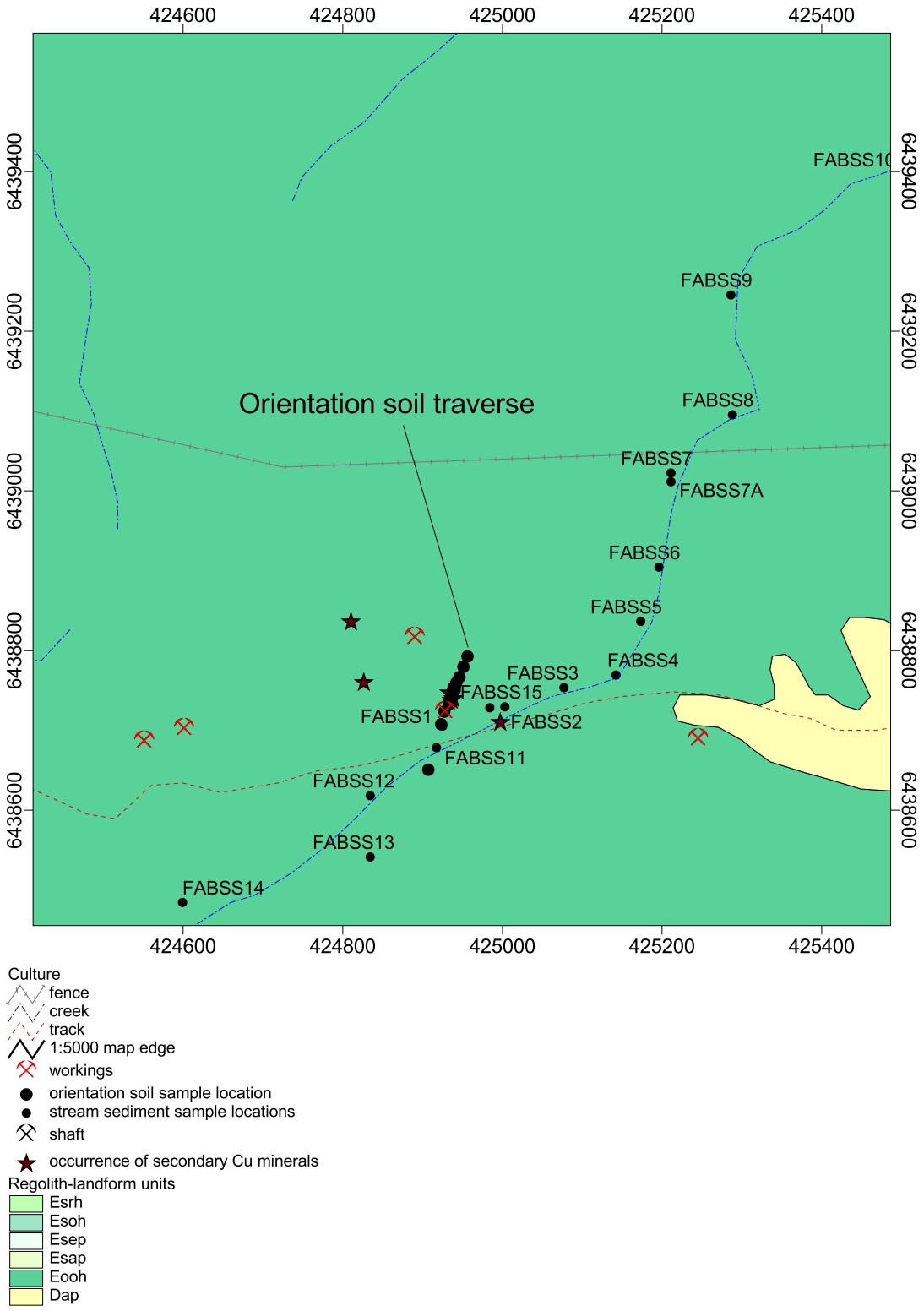


Figure A2.8.1. Location of stream sediments, soil orientation traverse and regolith landform units at Faugh-a-Ballagh. Other sample numbers are found in the GIS CD.

Regolith landform units used at FAB are described below:

Esrh - Saprock on various siltstones and mudstones of Umberatana Group. Remnant hills.

Esoh - Saprock on metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). Hills.

Esep - Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.

Esap - Thin proximal colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.

Eooh - Slightly weathered metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). High hills.

Dap - Brown soil with lenses of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.

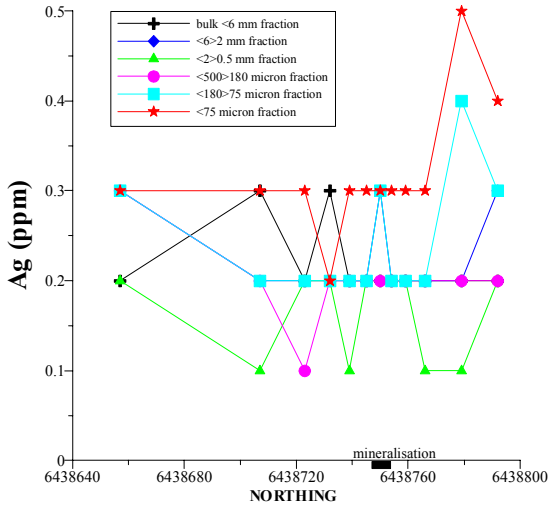


Figure A2.8.2. Distribution of Ag (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

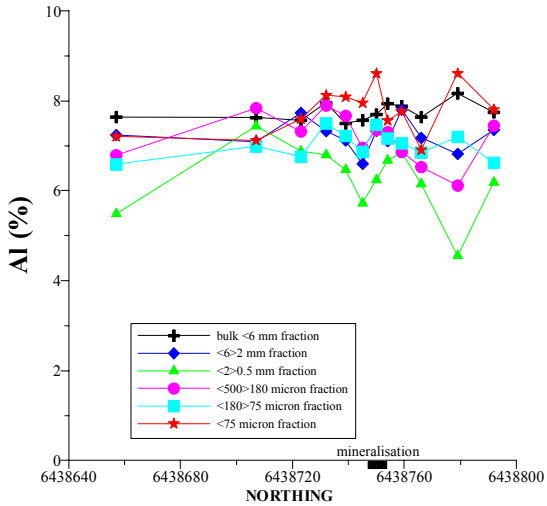


Figure A2.8.3. Distribution of Al (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

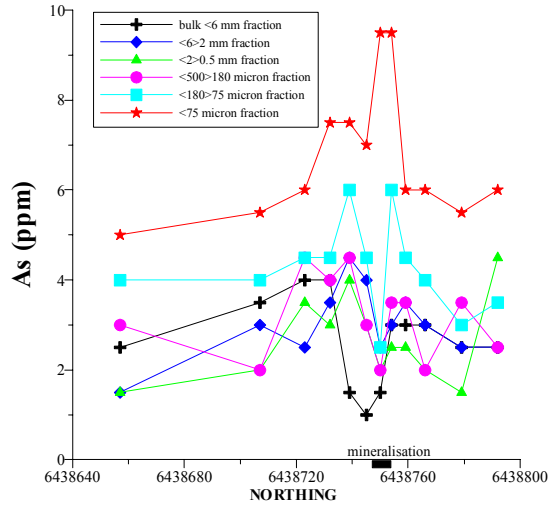


Figure A2.8.4. Distribution of As (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

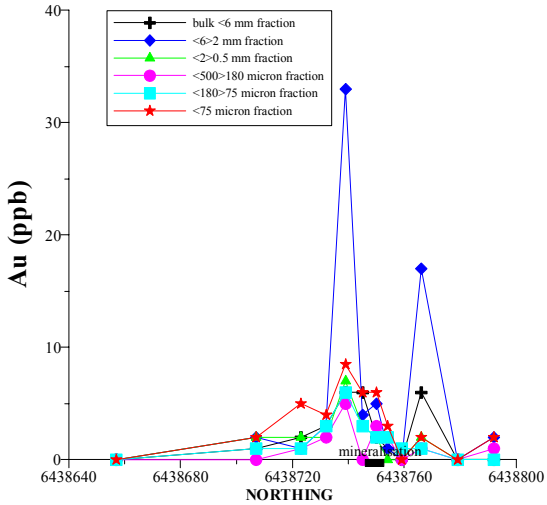


Figure A2.8.5. Distribution of Au (ppb) along the soil-lag orientation traverse at Faugh-a-Ballagh.

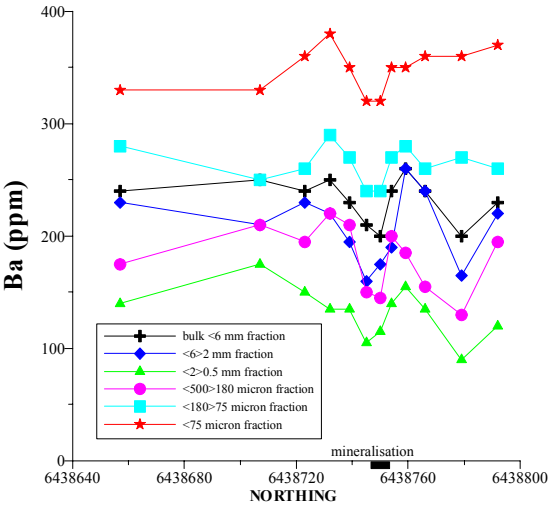


Figure A2.8.6. Distribution of Ba (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

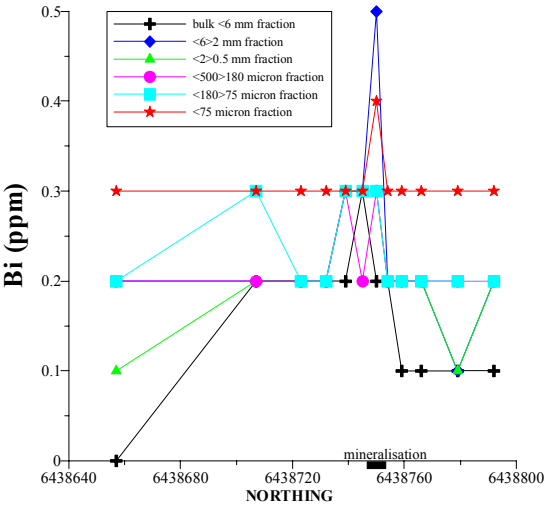


Figure A2.8.7. Distribution of Bi (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

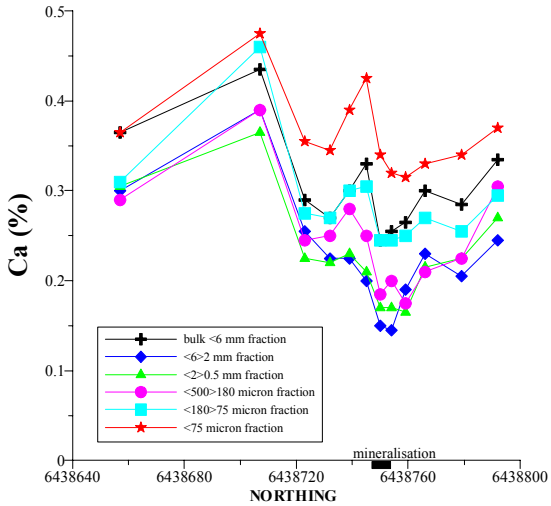


Figure A2.8.8. Distribution of Ca (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

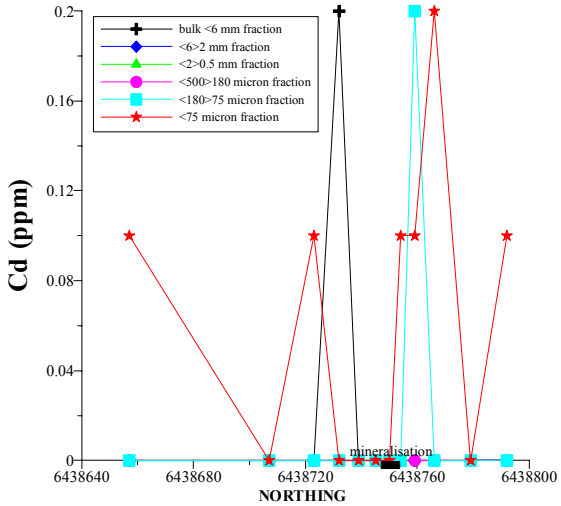


Figure A2.8.9. Distribution of Cd (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

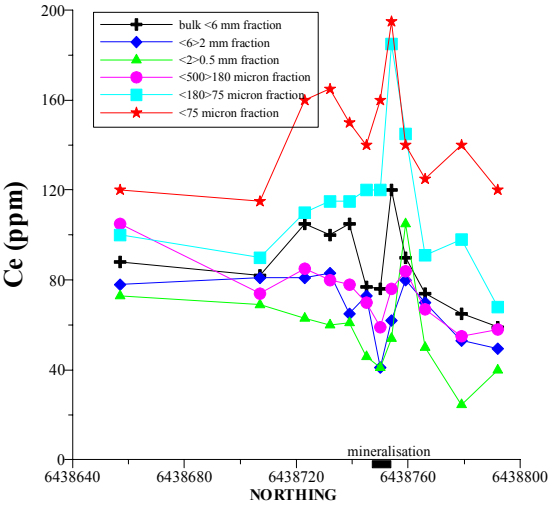


Figure A2.8.10. Distribution of Ce (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

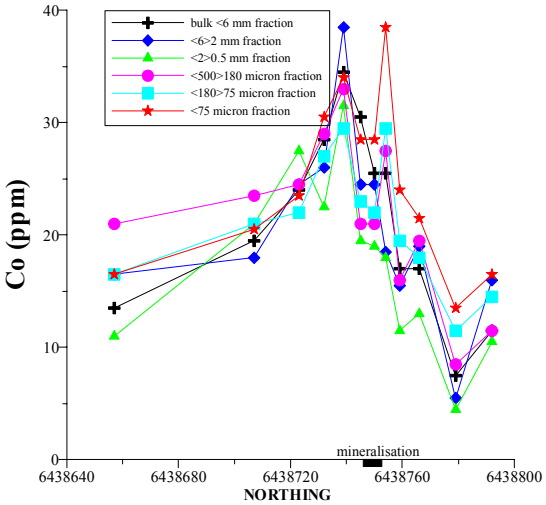


Figure A2.8.11. Distribution of Co (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

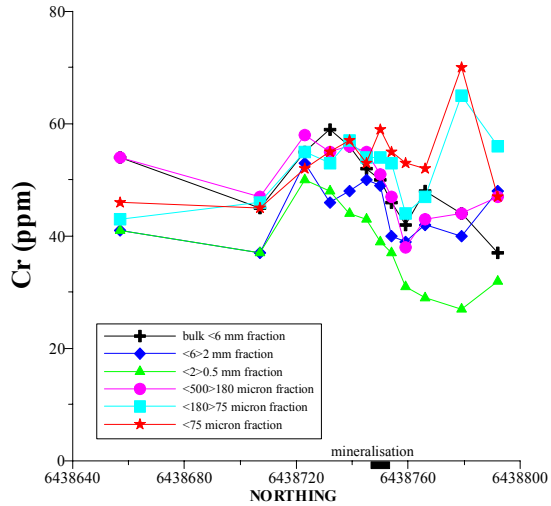


Figure A2.8.12. Distribution of Cr (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

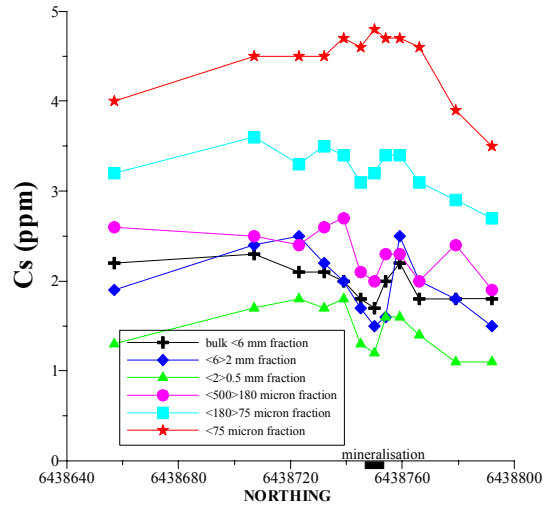


Figure A2.8.13. Distribution of Cs (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

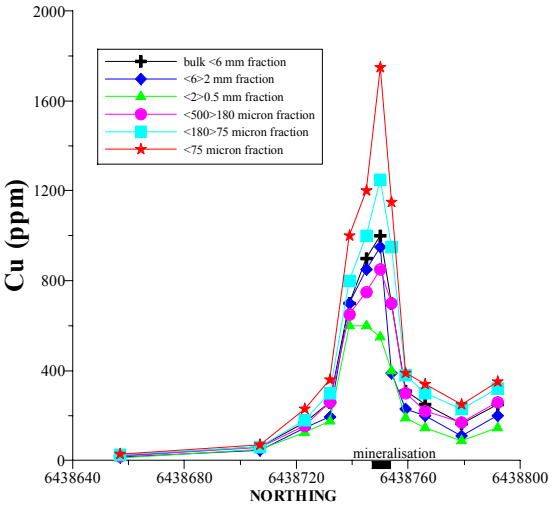


Figure A2.8.14. Distribution of Cu (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

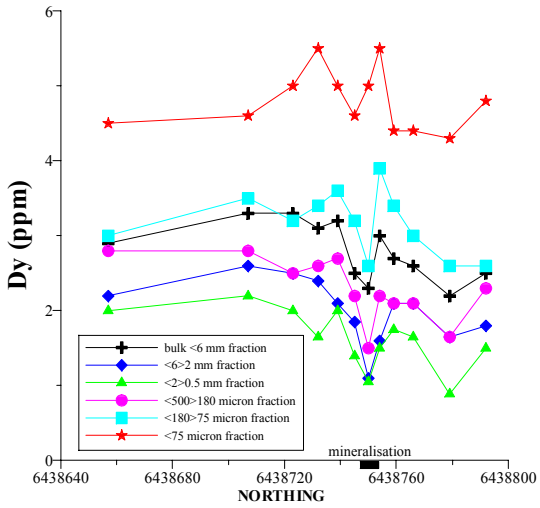


Figure A2.8.15. Distribution of Dy (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

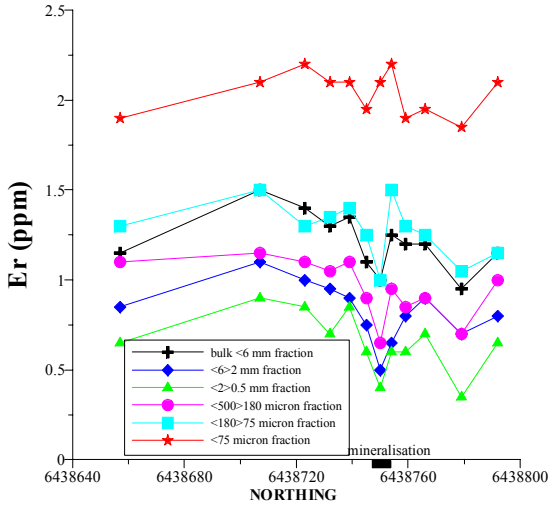


Figure A2.8.16. Distribution of Er (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

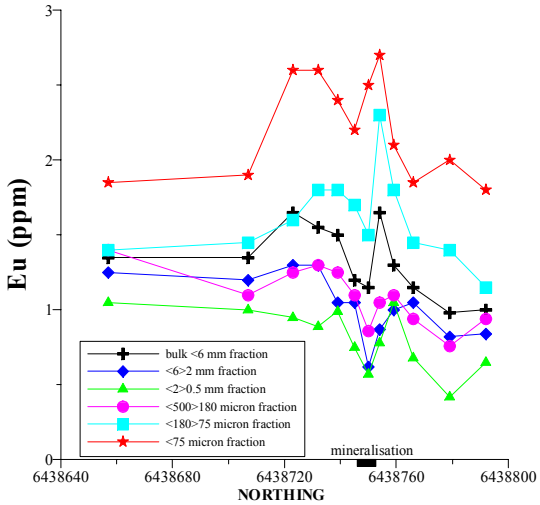


Figure A2.8.17. Distribution of Eu (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

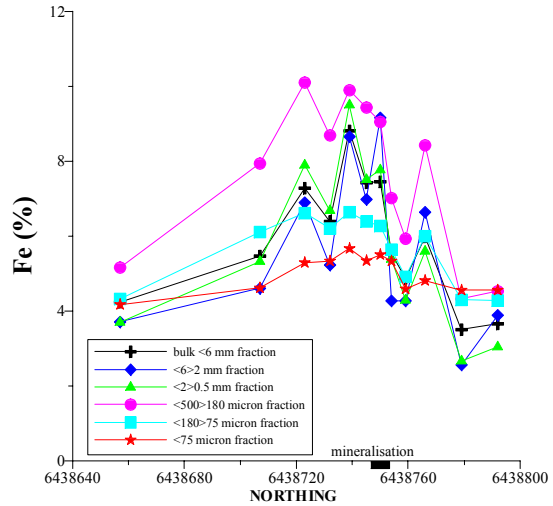


Figure A2.8.18. Distribution of Fe (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

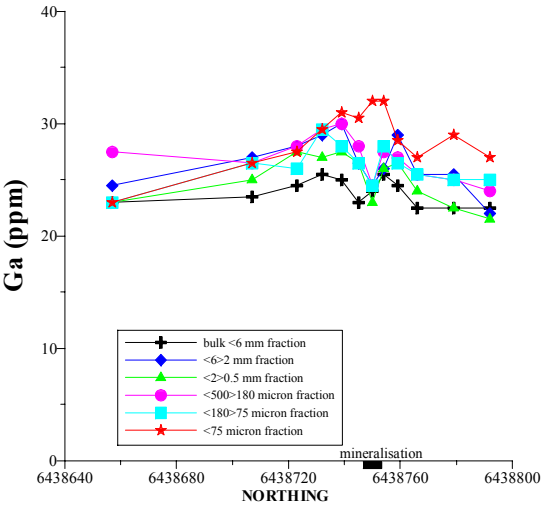


Figure A2.8.19. Distribution of Ga (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

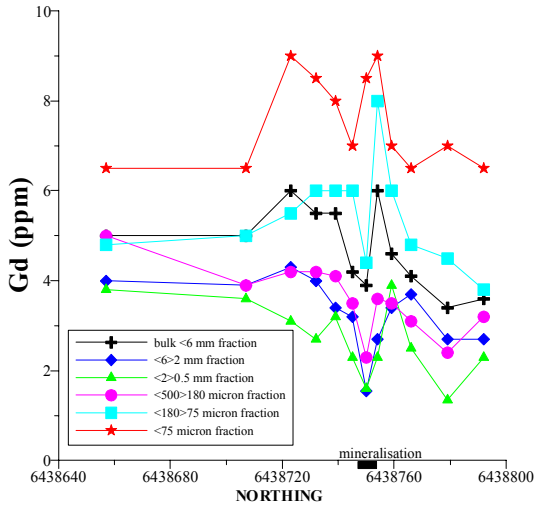


Figure A2.8.20. Distribution of Gd (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

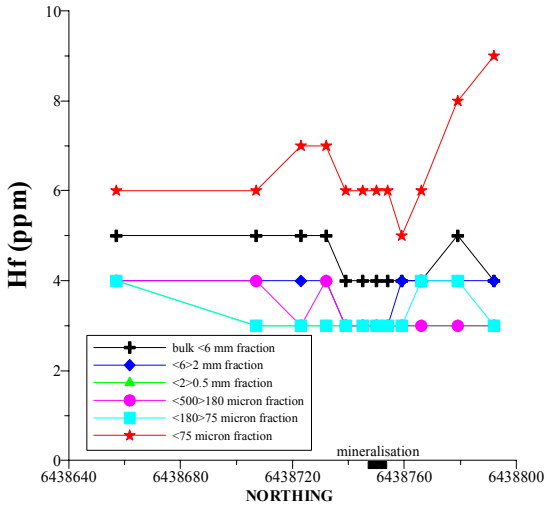


Figure A2.8.21. Distribution of Hf (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

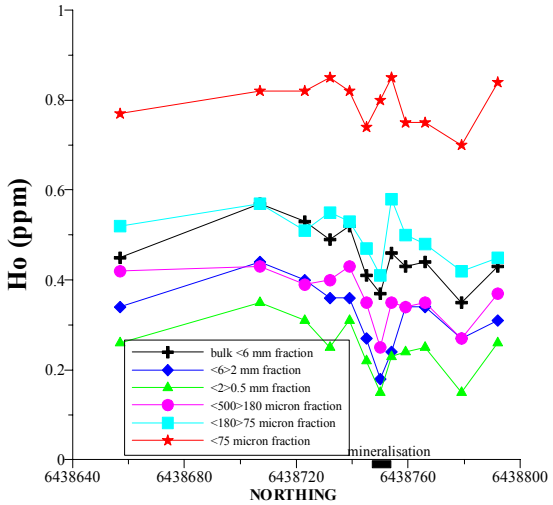


Figure A2.8.22. Distribution of Ho (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

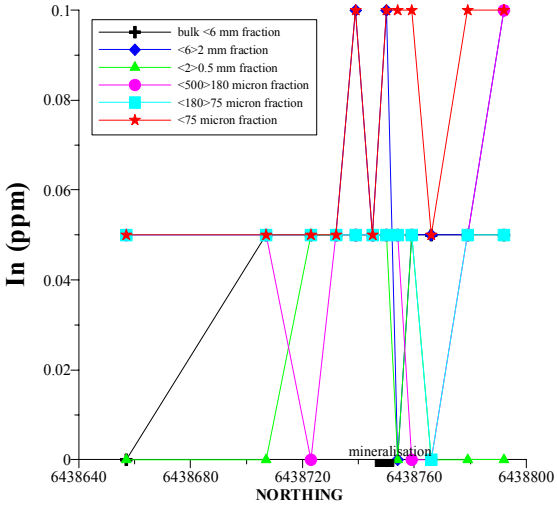


Figure A2.8.23. Distribution of In (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

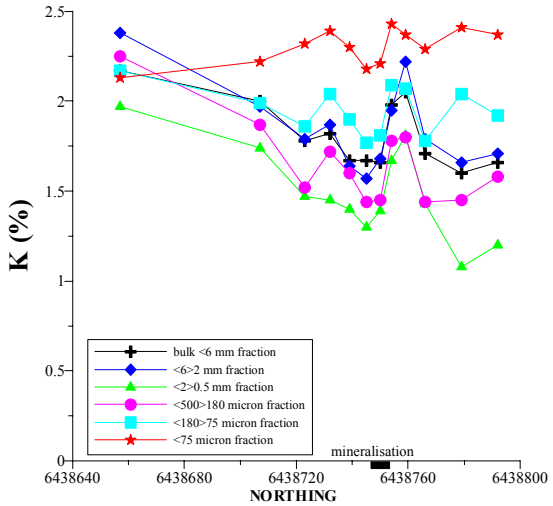


Figure A2.8.24. Distribution of K (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

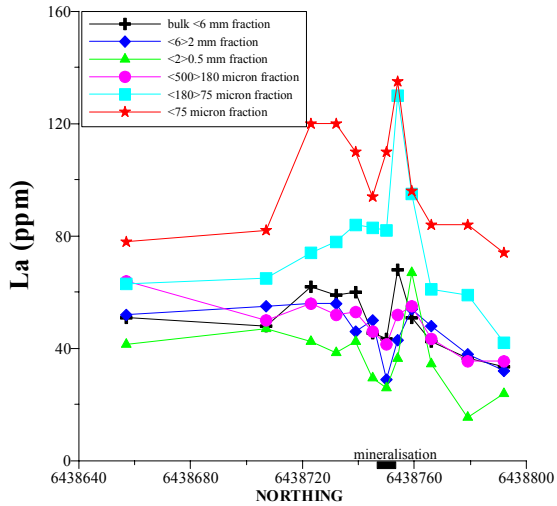


Figure A2.8.25. Distribution of La (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

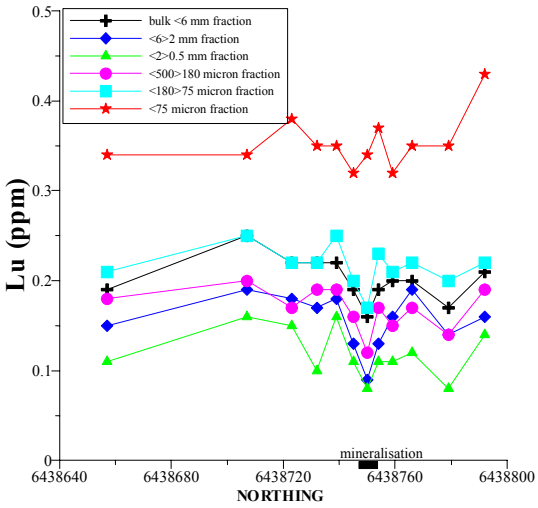


Figure A2.8.26. Distribution of Lu (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

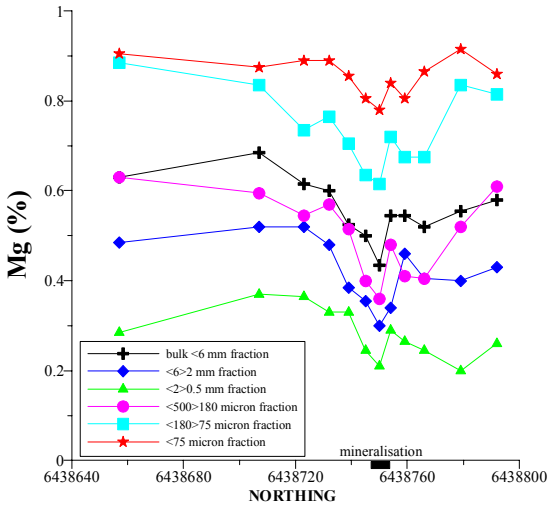


Figure A2.8.27. Distribution of Mg (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

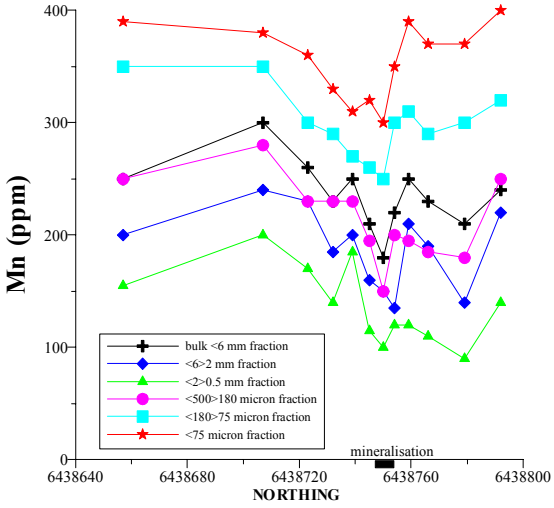


Figure A2.8.28. Distribution of Mn (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

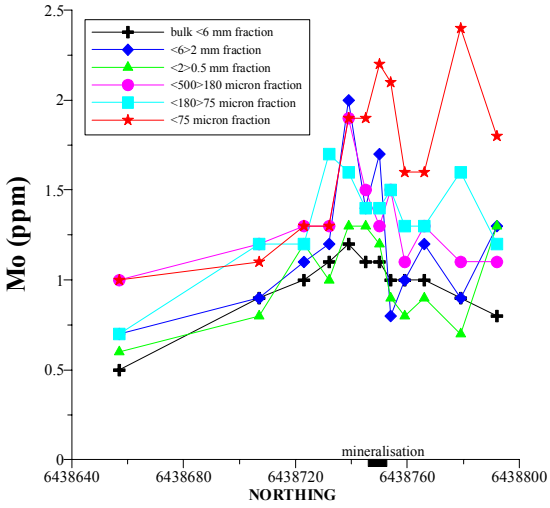


Figure A2.8.29. Distribution of Mo (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

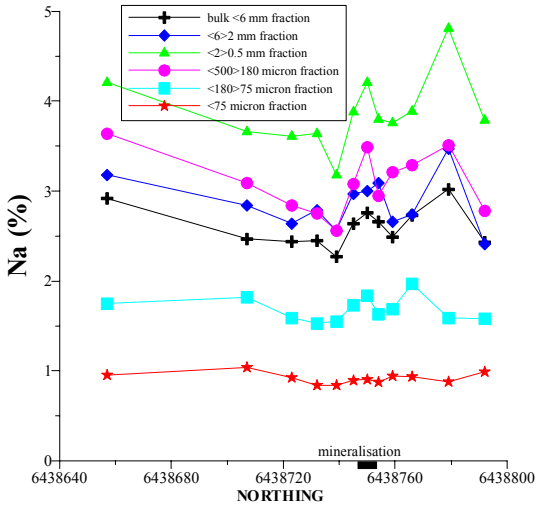


Figure A2.8.30. Distribution of Na (%) along the soil-lag orientation traverse at Faugh-a-Ballagh.

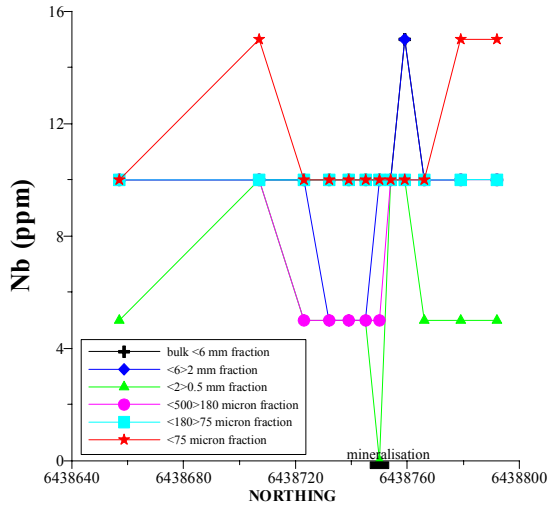


Figure A2.8.31. Distribution of Nb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

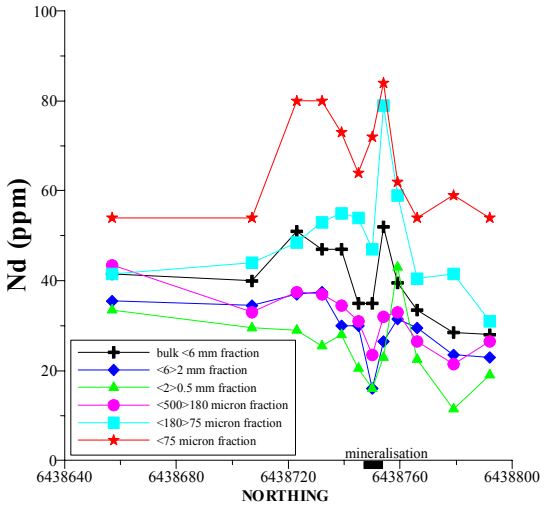


Figure A2.8.32. Distribution of Nd (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

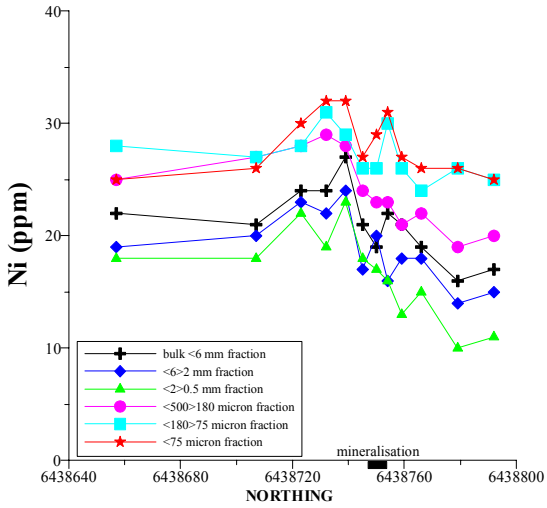


Figure A2.8.33. Distribution of Ni (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

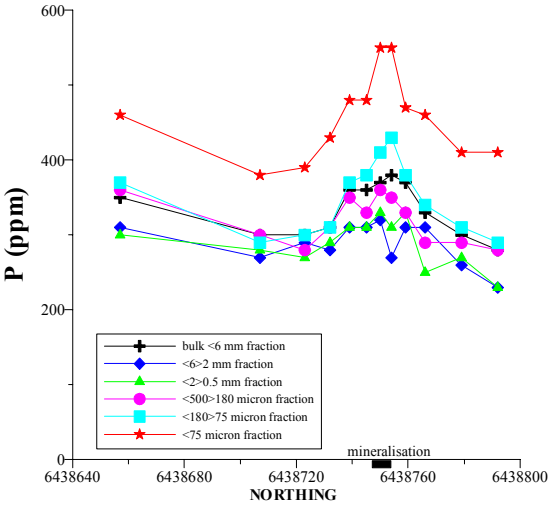


Figure A2.8.34. Distribution of P (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

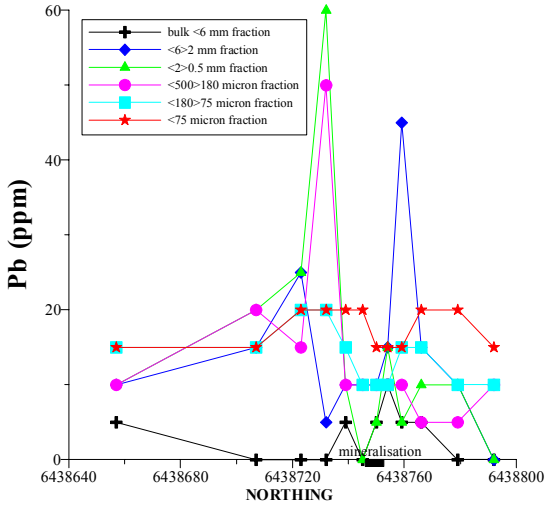


Figure A2.8.35. Distribution of Pb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

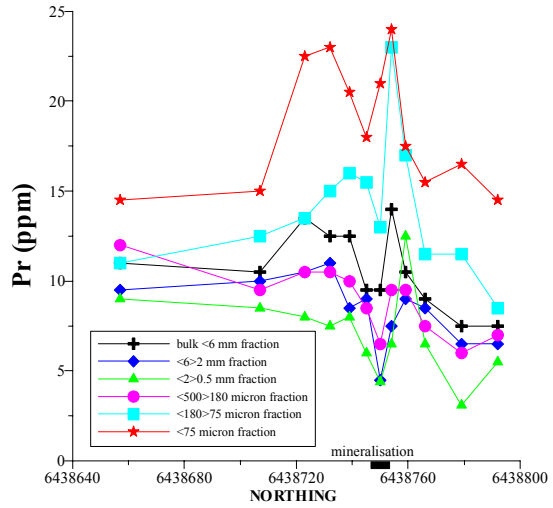


Figure A2.8.36. Distribution of Pr (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

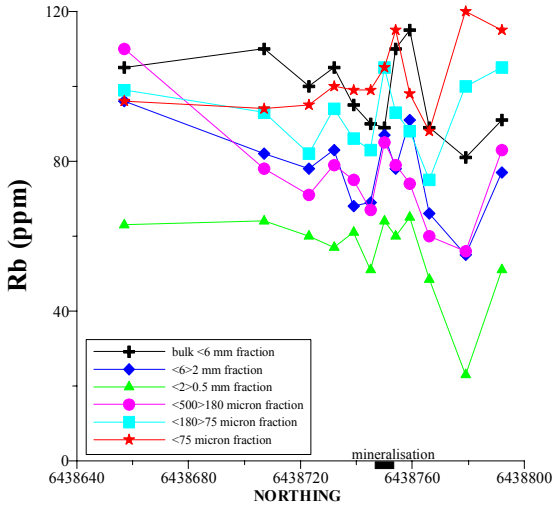


Figure A2.8.37. Distribution of Rb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

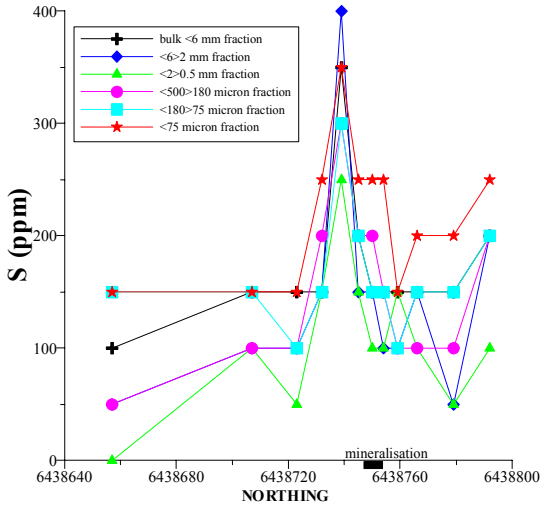


Figure A2.8.38. Distribution of S (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

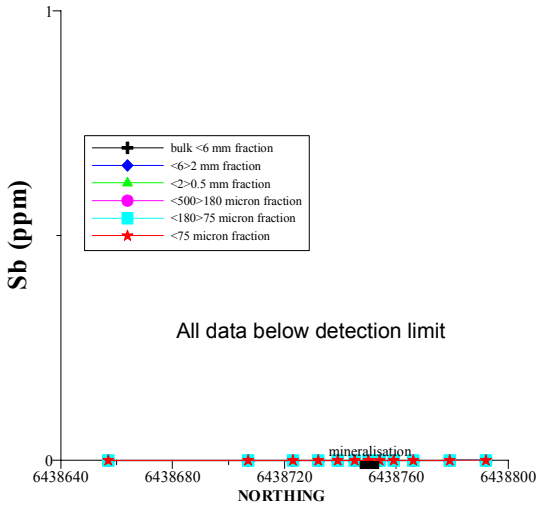


Figure A2.8.39. Distribution of Sb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

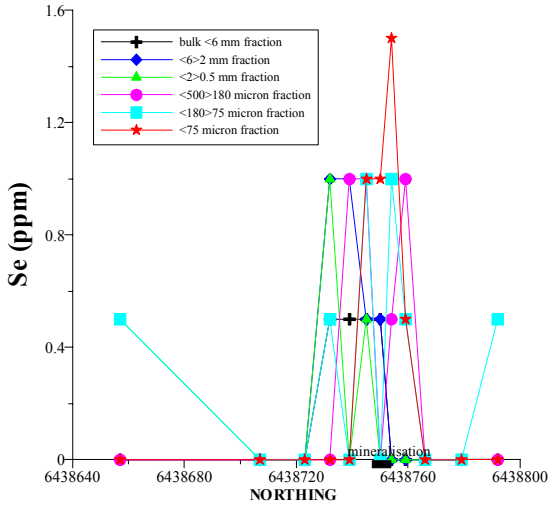


Figure A2.8.40. Distribution of Se (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

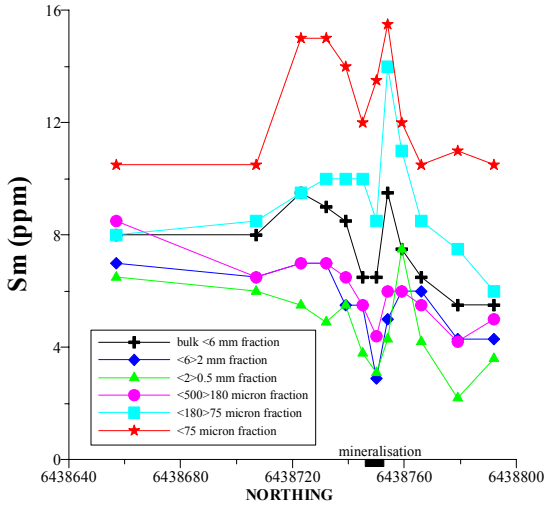


Figure A2.8.41. Distribution of Sm (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

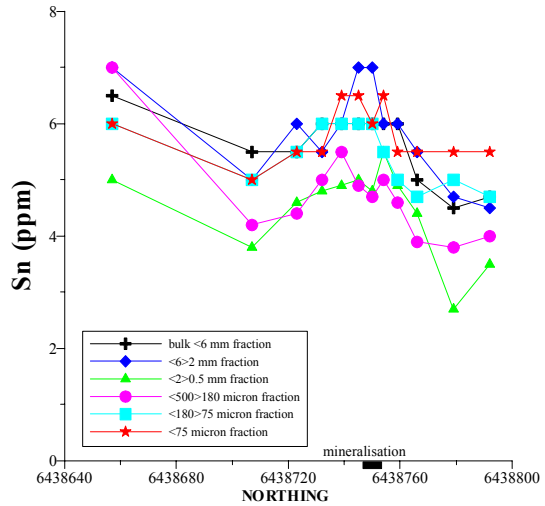


Figure A2.8.42. Distribution of Sn (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

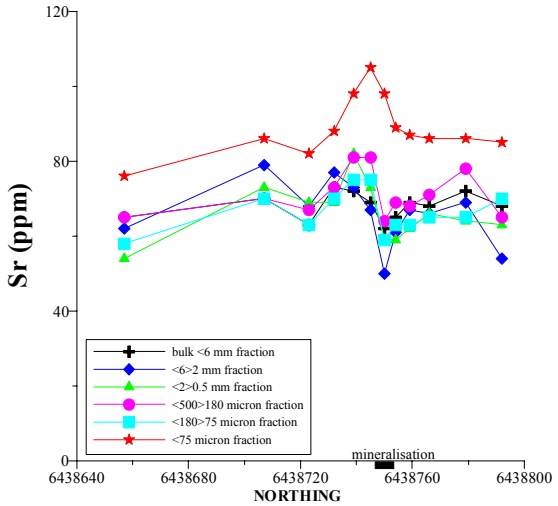


Figure A2.8.43. Distribution of Sr (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

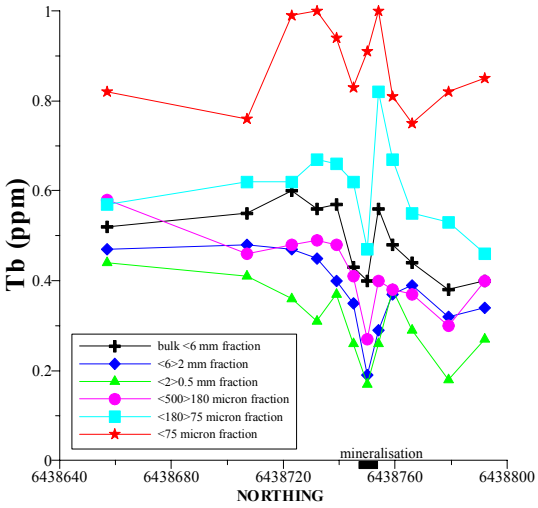


Figure A2.8.44. Distribution of Tb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

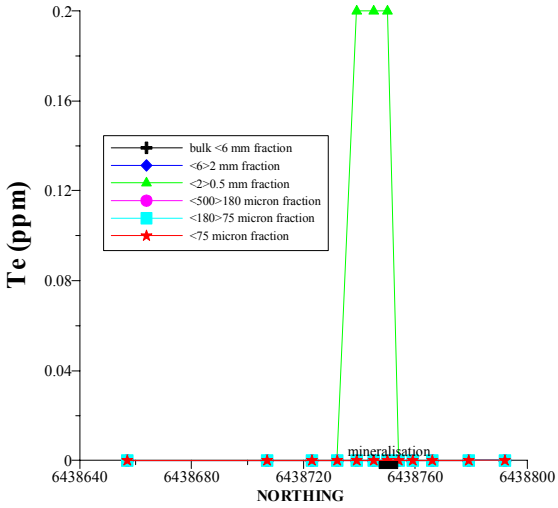


Figure A2.8.45. Distribution of Te (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

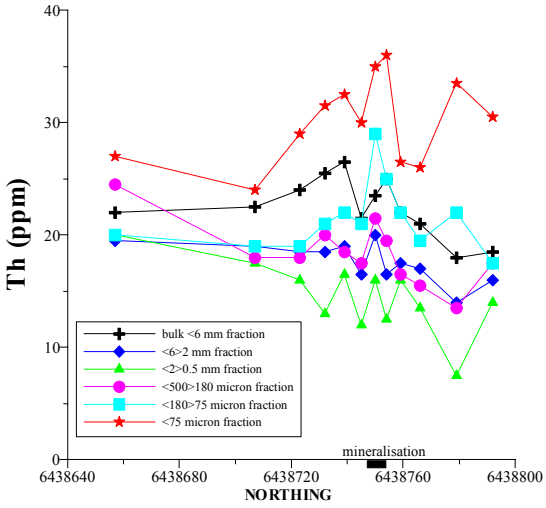


Figure A2.8.46. Distribution of Th (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

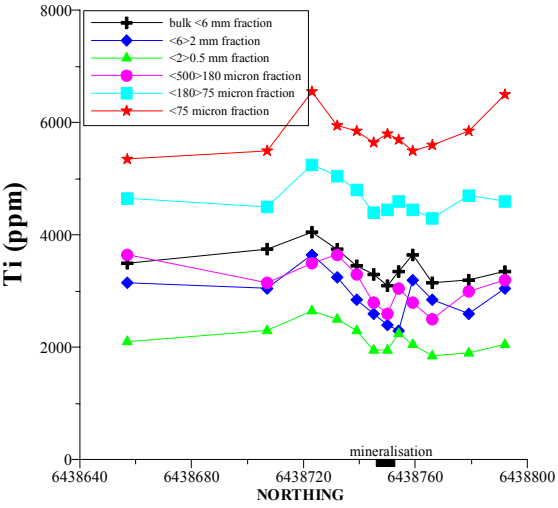


Figure A2.8.47. Distribution of Ti (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

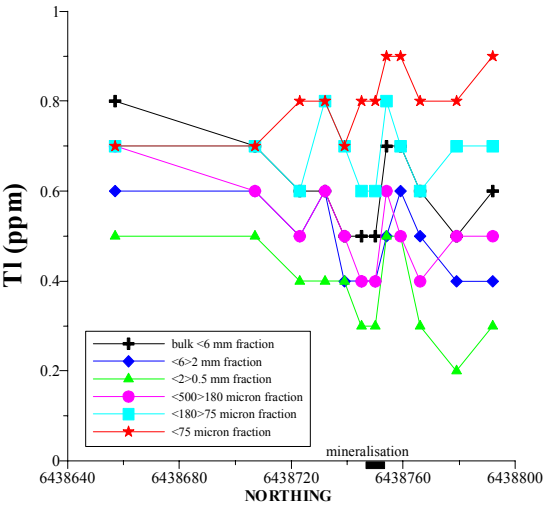


Figure A2.8.48. Distribution of Tl (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

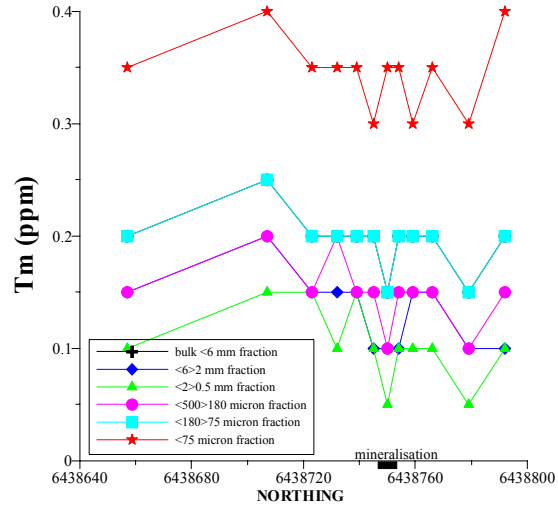


Figure A2.8.49. Distribution of Tm (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

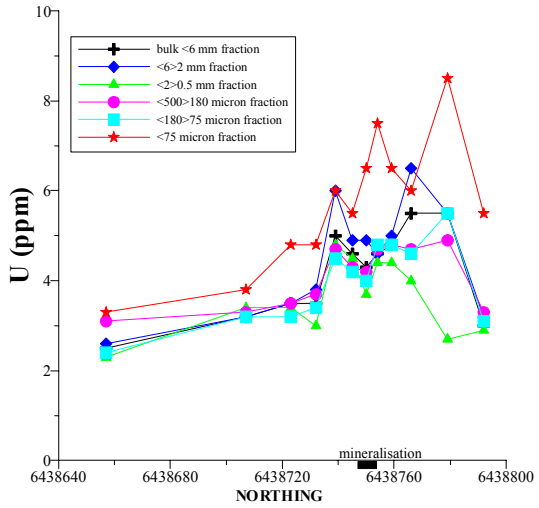


Figure A2.8.50. Distribution of U (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

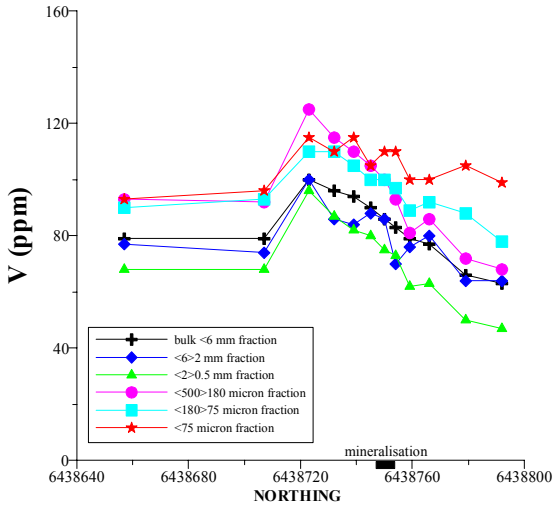


Figure A2.8.51. Distribution of V (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

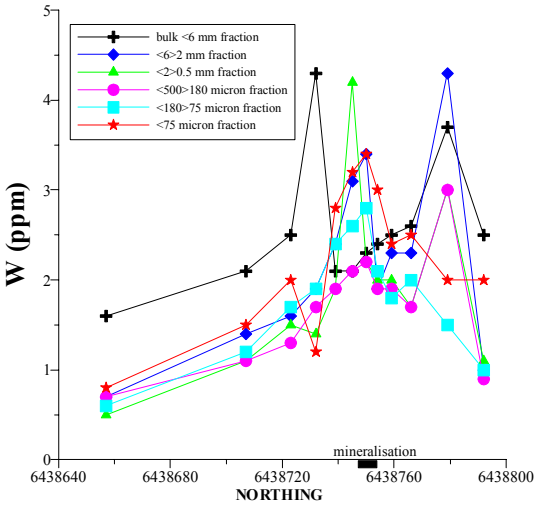


Figure A2.8.52. Distribution of W (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

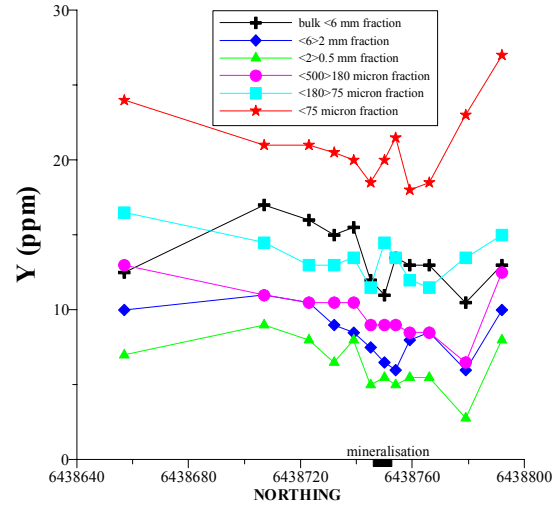


Figure A2.8.53. Distribution of Y (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

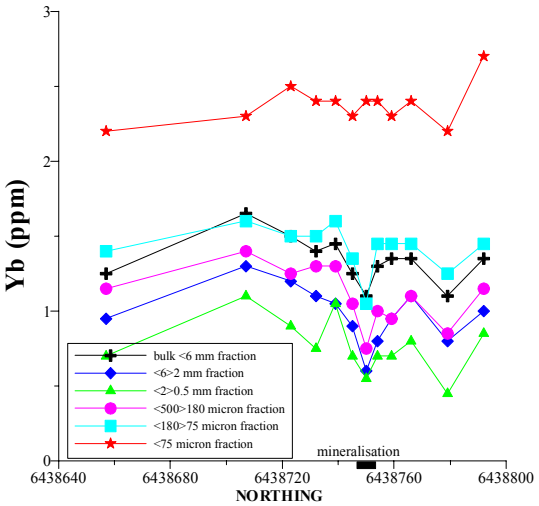


Figure A2.8.54. Distribution of Yb (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

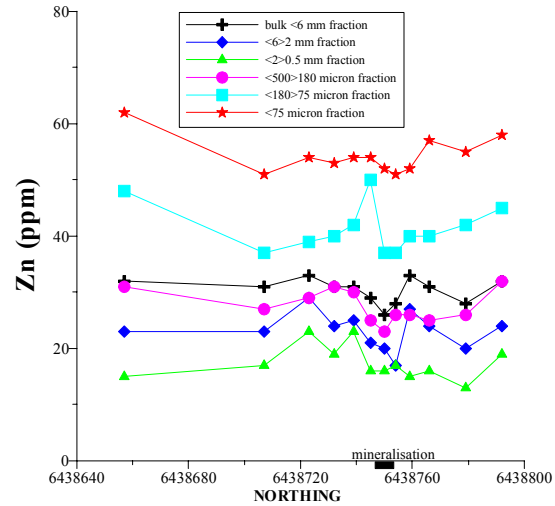


Figure A2.8.55. Distribution of Zn (ppm) along the soil-lag orientation traverse at Faugh-a-Ballagh.

Appendix 2.9
Analyses of stream-sediment size fractions

Appendix 2.9

Faugh-a-Ballagh Stream sediments

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5
Sample_no	Field_no	Northing	Easting	Error	Fraction																									
R446331	FABSS1	6438705	424952	4.4	-6+2mm	0.3	57200	1.5	4		220	0.2	11100	-0.1	63	10.5	27	0.5	13	2.6	1.25	0.89	57900	17.5	2.8	2	0.48	-0.05	14500	37
R446332	FABSS1	6438705	424952	4.4	-2+0.5mm	0.4	50800	1.5	-1		120	0.1	5900	-0.1	87	10	61	0.5	12	2.9	1.35	1.05	92100	23.5	3.5	3	0.52	-0.05	9300	54
R446333	FABSS1	6438705	424952	4.4	-0.5mm+180mm	0.4	59700	1	-1		75	0.1	4900	-0.1	97	12	120	0.6	11	3.1	1.4	1.1	149000	27.5	3.8	3	0.57	-0.05	4100	66
R446334	FABSS1	6438705	424952	4.4	-180+75mm	0.5	59300	1	-1	3	80	0.2	5550	-0.1	89	11.5	135	1	14	3.9	1.75	1.25	137000	24	4.5	3	0.72	-0.05	4750	66
R446335	FABSS1	6438705	424952	4.4	-75mm	0.5	63700	3	60		260	0.3	9000	-0.1	110	13.5	59	3.9	47	4.8	2.2	1.8	57000	20.5	6	5	0.89	0.05	16300	81
R446336	FABSS3	6438753	425077	3.8	-6+2mm	0.3	56800	1	-1	2	200	0.2	8750	-0.1	62	12	45	0.6	25	2.6	1.2	0.91	93800	19	3	3	0.47	-0.05	14000	40
R446337	FABSS3	6438753	425077	3.8	-2+0.5mm	0.3	52200	-0.1	-1		115	0.1	5500	-0.1	74	9.5	56	0.5	18	2.6	1.2	0.91	85600	22.5	3.1	3	0.49	-0.05	9000	46.5
R446338	FABSS3	6438753	425077	3.8	-0.5mm+180mm	0.3	51600	1	-1		80	0.1	5150	-0.1	25.5	5	34	0.6	14	1.7	0.85	0.52	45300	24.5	1.65	3	0.34	-0.05	4350	17
R446339	FABSS3	6438753	425077	3.8	-180+75mm	0.4	66700	1	-1		95	0.2	5600	-0.1	71	9.5	66	1.2	31	3.4	1.65	1.05	76800	24.5	3.7	3	0.67	-0.05	6100	49.5
R446340	FABSS3	6438753	425077	3.8	-75mm	0.5	70500	3	7		310	0.3	6450	-0.1	110	17.5	56	4.3	125	4.6	2.1	1.75	51300	22.5	5.5	5	0.84	0.1	19800	75
R446341	FABSS15	6438728	424984	4.5	-6+2mm	0.3	60900	2	-1		210	0.3	1600	-0.1	46.5	24.5	65	1.2	210	1.4	0.6	0.7	140000	24	2.1	3	0.23	0.05	16000	31.5
R446342	FABSS15	6438728	424984	4.5	-2+0.5mm	0.3	67300	1	-1		160	0.2	2050	-0.1	51	24.5	56	1.4	150	1.6	0.65	0.71	146000	24.5	2.3	3	0.27	0.05	12100	35.5
R446343	FABSS15	6438728	424984	4.5	-0.5mm+180mm	0.3	66300	2	1		170	0.2	2350	-0.1	64	21	60	2	200	2.2	0.9	1	161000	24	3.1	4	0.37	-0.05	12000	46.5
R446344	FABSS15	6438728	424984	4.5	-180+75mm	0.4	75000	2.5	8		260	0.2	3050	-0.1	69	16.5	59	3.4	310	2.7	1.25	1.2	70200	24	3.8	4	0.5	0.05	17700	53
R446345	FABSS15	6438728	424984	4.5	-75mm	0.5	81700	3	3		370	0.3	4200	-0.1	91	18.5	58	4.7	400	4	1.85	1.8	50300	27	5.5	7	0.73	0.1	24500	78
	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																														
R446331	0.22	3500	300	1.1	33200	10	23.5	10	300	10	6.5	42	-50	-0.5	-0.5	4.8	3.6	72	0.37	-0.2	12	1900	0.2	0.25	2.1	80	1	18.5	1.45	14
R446332	0.23	2300	190	0.7	44700	10	32.5	12	290	5	9.5	32.5	-50	-0.5	0.5	6	3.6	71	0.45	-0.2	18	2150	0.1	0.25	2.4	130	1	19.5	1.55	14
R446333	0.26	2150	240	0.7	50000	10	38.5	14	270	10	11	17.5	50	-0.5	-0.5	6.5	4.5	57	0.47	0.4	18.5	3250	-0.1	0.25	2.4	195	0.7	21	1.65	16
R446334	0.3	3600	400	0.8	37600	20	40.5	15	270	5	11	24	-50	-0.5	-0.5	7.5	7.5	53	0.56	0.4	28	6600	0.1	0.3	2.8	200	0.5	27	2.1	22
R446335	0.39	10400	390	0.9	14400	15	53	20	460	15	14.5	90	200	-0.5	-0.5	10	5.5	97	0.75	-0.2	30	5550	0.5	0.4	3.3	110	1.3	33	2.7	51
R446336	0.22	3450	250	1	31500	10	26	15	330	10	7	45	100	-0.5	-0.5	5.5	4.4	63	0.38	-0.2	13.5	2300	0.2	0.2	2.6	115	0.7	17.5	1.4	16
R446337	0.22	2250	170	0.7	47700	10	30.5	11	350	10	8	29.5	50	-0.5	-0.5	5.5	3.5	64	0.39	-0.2	16	2200	0.1	0.2	3.1	115	0.7	18	1.45	14
R446338	0.17	1800	145	0.5	61800	5	13.5	7	195	5	3.6	7.5	-50	-0.5	-0.5	2.7	2.9	52	0.23	-0.2	10	1950	0.1	0.15	1.35	69	0.6	11	1.1	15
R446339	0.32	4050	290	0.6	43100	15	31.5	14	310	10	8.5	33.5	50	-0.5	-0.5	6	6	59	0.49	-0.2	19	5050	0.2	0.3	2.5	120	0.6	25.5	2	21
R446340	0.4	10400	410	0.9	11700	10	49.5	23	500	15	13.5	110	250	-0.5	-0.5	9.5	5.5	89	0.7	-0.2	31.5	5450	0.7	0.4	3.6	105	1.5	32	2.6	56
R446341	0.12	2900	190	1.6	24700	10	19	25	230	10	5.5	80	150	-0.5	1	3.7	4.9	50	0.23	0.5	19.5	1950	0.3	0.1	4.3	110	2	8	0.7	21
R446342	0.13	2650	175	1.4	31900	5	21	24	250	10	6	69	100	-0.5	1	3.9	3.6	62	0.26	0.5	19	1750	0.3	0.1	4.1	110	1.7	10	0.85	21
R446343	0.16	4000	220	1.7	27500	10	28.5	28	280	15	8	73	150	-0.5	0.5	5.5	4.2	60	0.36	0.5	21.5	2500	0.4	0.15	4.2	125	2	13.5	1.1	26
R446344	0.24	7000	310	1.4	19100	10	35	27	310	10	9.5	110	150	-0.5	-0.5	6.5	4.8	67	0.45	-0.2	25	4500	0.6	0.2	4.7	100	2	19	1.45	39
R446345	0.37	8900	330	1.7	10700	15	50	27	400	15	13.5	140	200	-0.5	0.5	9.5	6	88	0.65	-0.2	33	5750	0.8	0.3	7	105	2.9	29	2.1	51

Appendix 2.10
Analyses of magnetic and non-magnetic fractions of <2 mm stream sediments

Appendix 2.10

Faugh-a-Ballagh Stream sediments <2mm

					Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	
					Units	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
					Scheme	IC3M	IC3E	IC3M	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M	
					LLD	0.1	10	0.5	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5	
Sample_no	Field_no	Northing	Easting	Error	Description																									
R448373	FABSS15	6438728	424984	4.5	magnetic fraction	0.2	25500	6	-1	90	0.4	1900	-0.1	44	48	135	1.2	160	2.3	1.1	0.83	493000	31	3	4	0.43	0.05	6100	30.5	
R448374	FABSS15	6438728	424984	4.5	non-magnetic fraction	0.3	67200	5	2	165	0.2	2600	-0.1	63	19	41	2.1	210	2.4	1.1	1.1	63200	25	3.7	4	0.42	0.05	15100	42	
R448375	FABSS1	6438705	424952	4.4	magnetic fraction	I.S.	I.S.	I.S.	-1	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
R448376	FABSS1	6438705	424952	4.4	non-magnetic fraction	0.3	51500	2	3	100	-0.1	6050	-0.1	61	5.5	36	0.7	12	3	1.45	1	41300	24.5	3.7	3	0.58	-0.05	7500	36.5	
R448377	FABSS11	6438678	424917	4.5	magnetic fraction	I.S.	I.S.	I.S.	-1	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
R448378	FABSS11	6438678	424917	4.5	non-magnetic fraction	0.5	53300	1.5	-1	100	-0.1	6150	-0.1	56	4.7	24	0.6	12	3.1	1.5	0.97	34300	25.5	3.6	3	0.59	-0.05	7300	30.5	
	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																														
R448373	0.2	2200	250	3.8	7050	15	22.5	61	250	5	6	40	100	-0.5	3	4.7	3	29.5	0.38	0.3	33.5	1650	0.3	0.2	5.5	300	1.7	11.5	1.2	41
R448374	0.2	4100	180	1.8	33200	10	31	18	270	10	8.5	89	100	-0.5	3	6	4.4	72	0.42	-0.2	27	2800	0.4	0.15	4.5	74	2.5	12.5	1.25	26
R448375	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R448376	0.27	2600	170	0.6	55800	10	30.5	7	310	-5	8.5	24	50	-0.5	2	6	4.8	70	0.47	-0.2	21.5	3350	0.2	0.25	2.4	75	1	16	1.75	17
R448377	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R448378	0.26	2200	160	0.6	57700	10	28	6	340	10	7.5	19.5	50	-0.5	2	5.5	3.9	70	0.46	-0.2	17.5	2600	0.1	0.25	2.3	62	1	16.5	1.75	14

Appendix 2.11
Analyses of magnetic and non-magnetic fractions of 2-6 mm lags and <2 mm soils

Appendix 2.11

Faugh-a-Ballagh soils

						Element	Au	AuDp1	Al	Ba	Ca	Cr	Cu	Fe	K	Mg	Mn	Na	Nb	Ni	P	Pb	S	Ti	V	Zn	Ag	As	Bi	Cd	
						Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
						Scheme	AA9	AA9	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3M	IC3M	
						LLD	1	1	10	5	10	2	2	100	10	10	5	10	5	2	5	5	50	10	2	2	0.1	0.5	0.1	0.1	
Sample_no	Field_no	Northing	Easting	Error	Fraction	Description																									
R448383	FABS1	6438750	424940	3.9	-2mm	magnetic fraction	-1		34800	120	2750	125	950	407000	8950	2900	270	7600	10	56	390	10	150	2650	260	43	0.1	3	0.7	-0.1	
R448387	FABS1	6438750	424940	3.9	-2mm	non-magnetic fraction	-1		79400	250	2400	35	220	36500	21000	4500	210	27400	10	17	330	10	100	3050	71	28	0.3	2	0.1	-0.1	
R448388	FABS1	6438750	424940	3.9	-6+2mm	magnetic fraction	I.S.	I.S.	21300	90	3300	52	1650	496000	6300	2050	440	5000	15	64	280	15	150	1550	140	50	-0.1	1.5	2.2	-0.1	
R448389	FABS1	6438750	424940	3.9	-6+2mm	non-magnetic fraction	6		80000	220	3000	49	600	51900	18300	4300	190	28900	10	20	340	10	500	3250	84	24	0.2	2.5	0.2	-0.1	
R448382	FABS3	6438739	424936	3.9	-2mm	magnetic fraction	3		25900	100	2700	92	800	487000	7050	2650	390	4300	10	63	280	15	200	2000	210	51	-0.1	2.5	0.7	-0.1	
R448386	FABS3	6438739	424936	3.9	-2mm	non-magnetic fraction	I.S.	I.S.	65600	260	13400	150	340	226000	26100	5950	270	11600	15	45	340	15	150	3850	190	42	0.7	3.5	0.4	-0.1	
R448392	FABS3	6438739	424936	3.9	-6+2mm	magnetic fraction	7		83300	250	3600	47	750	55300	18100	5850	250	26100	10	26	380	15	300	3900	93	32	0.2	3	0.2	-0.1	
R448393	FABS3	6438739	424936	3.9	-6+2mm	non-magnetic fraction	4		77500	200	2600	46	1000	47000	17000	4600	185	30200	5	20	390	15	200	3600	82	28	0.2	2.5	0.2	-0.1	
R448379	FABS6	6438707	424923	3.9	-2mm	magnetic fraction	I.S.	I.S.	40300	145	5450	300	71	389000	11800	4700	420	8650	20	60	280	15	150	4800	330	44	0.5	3	0.4	-0.1	
R448384	FABS6	6438707	424923	3.9	-2mm	non-magnetic fraction	3		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
R448394	FABS6	6438707	424923	3.9	-6+2mm	non-magnetic fraction	2		78800	240	4900	35	50	40000	20700	5650	250	28500	10	20	290	15	100	3100	69	25	0.2	2	0.1	-0.1	
R448380	FABS6	6438707	424923	3.9	-6+2mm	magnetic fraction	6	--	63500	210	5350	185	67	233000	20700	6300	400	16500	15	46	250	10	100	5150	230	37	0.6	2.5	0.2	-0.1	
R448381	FABS8	6438759	424942	3.9	-2mm	magnetic fraction	I.S.	I.S.	30800	150	9100	190	280	447000	10100	3650	300	5250	15	66	370	20	200	2750	300	58	0.2	4	0.5	-0.1	
R448385	FABS8	6438759	424942	3.9	-2mm	non-magnetic fraction	-1		74600	180	2000	43	800	42900	18000	3200	130	32600	5	14	310	5	150	2750	74	19	0.3	2	0.2	-0.1	
R448390	FABS8	6438759	424942	3.9	-6+2mm	magnetic fraction	2		79300	260	4750	44	63	49300	20500	6950	310	26700	10	24	300	10	150	3800	79	33	0.3	2.5	0.2	-0.1	
R448391	FABS8	6438759	424942	3.9	-6+2mm	non-magnetic fraction	-1		83600	270	3000	43	330	44500	21200	5700	270	26000	10	21	390	15	150	3800	81	34	0.3	2.5	0.2	-0.1	

Element	Ce	Co	Cs	Ga	In	La	Mo	Nd	Rb	Sb	Se	Sm	Sn	Sr	Te	Th	Tl	U	W	Y	Hf	Dy	Er	Eu	Gd	Ho	Lu	Pr	Tb	Tm	Yb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R
LLD	0.5	0.2	0.1	0.1	0.05	0.5	0.1	0.05	0.1	0.5	0.5	0.02	0.1	0.1	0.2	0.02	0.1	0.02	0.1	0.05	1	0.02	0.05	0.02	0.05	0.02	0.02	0.05	0.02	0.05	0.05
Sample_no																															
R448383	63	49	1.6	29.5	0.1	41	3.5	28.5	57	-0.5	2	5.5	5	40	0.4	32.5	0.3	8.5	1.7	11.5	4	2.3	1	1	3.3	0.39	0.19	8	0.38	0.15	1.2
R448387	66	13	2.2	24.5	0.05	44	1	28	110	-0.5	1.5	5	5	60	-0.2	19.5	0.5	4.3	2.1	9.5	3	1.85	0.75	0.93	3.1	0.3	0.14	8	0.34	0.15	0.9
R448388	39	125	1	23	0.15	24	5	17	37	-0.5	3	3.4	7.5	35.5	0.7	16	0.2	8.5	2.3	7	2	1.55	0.65	0.64	2.1	0.26	0.13	4.7	0.26	0.1	0.75
R448389	78	30	2.1	30	0.05	53	1.7	33.5	100	-0.5	2	6	6	71	-0.2	25	0.5	6	2.6	10.5	3	2.1	0.9	1.15	3.7	0.36	0.17	9.5	0.4	0.15	1.05
R448382	50	52	1.3	25	0.1	33.5	3.3	23	44.5	-0.5	1.5	4.5	6	35	0.4	23.5	0.3	7.5	1.7	10	3	2.1	0.9	0.84	2.9	0.35	0.17	6.5	0.33	0.15	1.05
R448386	81	27.5	2.7	37	0.15	51	2	33.5	165	-0.5	2	6.5	9.5	110	-0.2	33	0.8	10.5	2.7	12.5	7	2.4	1.05	1.2	3.7	0.39	0.22	9.5	0.43	0.15	1.3
R448392	115	30.5	2.8	28.5	0.05	78	1.6	49.5	105	-0.5	1.5	9	5.5	78	-0.2	27.5	0.5	4.9	2.4	15.5	4	3.1	1.3	1.65	5.5	0.49	0.21	14	0.6	0.2	1.35
R448393	99	18.5	2.4	26.5	0.05	64	1.4	41	105	-0.5	1	7.5	5.5	71	-0.2	28	0.5	4.2	2.5	13	4	2.6	1.05	1.35	4.4	0.43	0.18	11.5	0.47	0.15	1.15
R448379	80	51	2.1	32.5	0.05	47	2.9	36	78	-0.5	1.5	7.5	4.5	53	0.3	41.5	0.5	6.5	1.3	20	7	4	1.65	1.35	5	0.71	0.32	10	0.63	0.3	2
R448384	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R448394	71	14	2.1	23.5	0.05	48.5	0.8	32	105	-0.5	-0.5	6.5	4.5	67	-0.2	21.5	0.5	3	1.3	13.5	3	2.4	1.05	1.1	3.8	0.41	0.18	8.5	0.44	0.15	1.2
R448380	87	36	2.6	36	0.1	46	1.5	31.5	125	-0.5	2	6.5	7	58	-0.2	36	0.7	5.5	1.9	16.5	6	3.2	1.4	1.2	4.2	0.57	0.26	9	0.52	0.25	1.65
R448381	74	45	1.7	29	0.1	47.5	3.2	33	64	-0.5	2	6.5	4	77	0.3	34.5	0.4	10	1.4	15	6	2.9	1.25	1.15	4	0.5	0.26	9.5	0.49	0.25	1.6
R448385	53	19	1.5	26	0.05	34.5	1.5	22	92	-0.5	1.5	4	6.5	52	-0.2	20.5	0.4	3.7	2.8	7	3	1.35	0.6	0.8	2.3	0.22	0.11	6.5	0.26	0.1	0.65
R448390	80	21.5	3.1	26	0.05	54	1.1	38.5	125	-0.5	1.5	7.5	4.9	72	-0.2	25	0.7	3.3	1.6	17	4	3.1	1.35	1.35	4.6	0.53	0.23	10.5	0.54	0.2	1.55
R448391	92	16	3	27	0.05	61	1.3	40	130	-0.5	1	7.5	5	72	-0.2	24	0.6	5	2.4	13.5	4	2.6	1.1	1.35	4.3	0.43	0.2	11.5	0.48	0.15	1.25

Appendix 2.12
Statistical summaries

Faugh-a-Ballagh <6 mm soil samples

	AU	AL	BA	CA	CR
N of cases	129	129	129	129	129
Minimum	-1.000	5.090	85.000	0.245	15.000
Maximum	45.500	9.430	1650.000	5.040	76.000
Range	46.500	4.340	1565.000	4.795	61.000
Median	-1.000	7.530	260.000	0.440	45.000
Mean	0.640	7.438	310.853	0.557	44.364
Standard Dev	4.503	0.706	207.498	0.511	11.720
C.V.	7.040	0.095	0.668	0.918	0.264

	CU	FE	K	MG	MN
N of cases	129	129	129	129	129
Minimum	9.000	2.140	0.505	0.280	155.000
Maximum	1000.000	19.700	3.290	5750.000	1400.000
Range	991.000	17.560	2.785	5749.720	1245.000
Median	23.000	4.450	1.800	0.600	280.000
Mean	83.860	5.542	1.790	45.212	318.915
Standard Dev	162.986	2.881	0.637	506.203	146.830
C.V.	1.944	0.520	0.356	11.196	0.460

	NA	NB	NI	P	PB
N of cases	129	129	129	129	129
Minimum	0.585	-5.000	10.000	210.000	-5.000
Maximum	5.020	15.000	63.000	600.000	25.000
Range	4.435	20.000	53.000	390.000	30.000
Median	2.330	5.000	20.000	320.000	15.000
Mean	2.249	3.798	20.845	331.473	13.023
Standard Dev	0.869	6.578	6.671	69.204	5.776
C.V.	0.386	1.732	0.320	0.209	0.444

	S	TI	V	ZN	AG
N of cases	129	129	129	129	129
Minimum	50.000	2200.000	46.000	22.000	0.100
Maximum	3000.000	10300.000	260.000	105.000	0.400
Range	2950.000	8100.000	214.000	83.000	0.300
Median	150.000	3750.000	82.000	36.000	0.200
Mean	223.643	3930.620	85.008	39.132	0.241
Standard Dev	322.350	966.374	24.422	12.157	0.058
C.V.	1.441	0.246	0.287	0.311	0.241

	AS	BI	CD	CE	CO
N of cases	129	129	129	129	129
Minimum	1.000	-0.100	-0.100	22.000	5.500
Maximum	6.000	0.700	0.200	155.000	140.000
Range	5.000	0.800	0.300	133.000	134.500
Median	3.000	0.200	-0.100	81.000	14.000
Mean	3.085	0.178	-0.094	82.504	17.504
Standard Dev	0.853	0.110	0.041	23.565	13.902
C.V.	0.276	0.619	-0.437	0.286	0.794

	CS	GA	IN	LA	MO
N of cases	129	129	129	129	129
Minimum	0.900	14.500	-0.050	13.000	0.400
Maximum	7.000	29.500	0.100	90.000	16.500
Range	6.100	15.000	0.150	77.000	16.100
Median	2.400	23.500	0.050	47.000	0.900
Mean	2.638	23.659	0.006	48.484	1.316
Standard Dev	1.113	2.539	0.052	14.413	1.713
C.V.	0.422	0.107	8.970	0.297	1.302

	ND	RB	SB	SE	SM
N of cases	129	129	129	129	129
Minimum	13.000	7.500	-0.500	-0.500	2.800
Maximum	74.000	185.000	-0.500	1.000	15.000
Range	61.000	177.500	0.000	1.500	12.200
Median	39.500	89.000	-0.500	-0.500	7.500
Mean	39.771	87.368	-0.500	-0.438	7.779
Standard Dev	10.118	40.894	0.000	0.265	1.770
C.V.	0.254	0.468	0.000	-0.606	0.228

	SN	SR	TE	TH	TL
N of cases	129	129	129	129	129
Minimum	1.400	40.500	-0.200	8.500	0.200
Maximum	13.500	220.000	0.400	54.000	3.500
Range	12.100	179.500	0.600	45.500	3.300
Median	4.100	74.000	-0.200	21.000	0.600
Mean	4.260	80.969	-0.181	21.612	0.619
Standard Dev	1.288	26.859	0.098	6.984	0.356
C.V.	0.302	0.332	-0.545	0.323	0.574

	U	W	Y	HF	DY
N of cases	129	129	129	129	129
Minimum	0.720	0.100	9.000	2.000	1.800
Maximum	5.500	4.300	42.500	6.000	7.500
Range	4.780	4.200	33.500	4.000	5.700
Median	2.600	1.000	17.500	4.000	3.500
Mean	2.797	1.184	18.779	4.070	3.562
Standard Dev	1.001	0.736	5.301	0.802	0.817
C.V.	0.358	0.621	0.282	0.197	0.229

	ER	EU	GD	HO	LU
N of cases	129	129	129	129	129
Minimum	0.500	0.480	2.100	0.300	0.130
Maximum	2.800	2.100	9.500	1.200	0.500
Range	2.300	1.620	7.400	0.900	0.370
Median	1.450	1.400	5.000	0.520	0.230
Mean	1.493	1.374	5.333	0.545	0.244
Standard Dev	0.468	0.276	1.156	0.139	0.070
C.V.	0.313	0.201	0.217	0.256	0.285

	PR	TB	TM	YB
N of cases	129	129	129	129
Minimum	3.400	0.250	0.100	0.800
Maximum	19.500	1.050	0.500	3.100
Range	16.100	0.800	0.400	2.300
Median	10.500	0.570	0.200	1.450
Mean	10.434	0.584	0.238	1.559
Standard Dev	2.712	0.124	0.074	0.447
C.V.	0.260	0.213	0.310	0.287

Faugh-a-Ballagh - rock-chip samples

	AU	AL	BA	CA	CR
N of cases	32	32	32	32	32
Minimum	-1.000	0.115	5.000	0.021	-2.000
Maximum	260.000	6.530	1200.000	8.930	64.000
Range	261.000	6.415	1195.000	8.909	66.000
Median	9.000	0.510	152.500	0.070	12.500
Mean	29.484	1.501	209.062	0.401	15.469
Standard Dev	58.567	1.842	231.710	1.561	14.507
Variance	3430.056	3.394	53689.415	2.436	210.451

	CU	FE	K	MG	MN
N of cases	32	32	32	32	32
Minimum	5.000	6.740	0.045	0.016	70.000
Maximum	56200.000	61.500	2.120	3.070	3300.000
Range	56195.000	54.760	2.075	3.055	3230.000
Median	520.000	47.400	0.193	0.060	255.000
Mean	7869.875	42.417	0.414	0.230	440.156
Standard Dev	14637.573	16.712	0.535	0.552	612.125
Variance	2.14259E+08	279.306	0.286	0.305	374697.555

	NA	NB	NI	P	PB
N of cases	32	32	32	32	32
Minimum	0.008	-5.000	4.000	10.000	-5.000
Maximum	5.840	25.000	76.000	1450.000	20.000
Range	5.832	30.000	72.000	1440.000	25.000
Median	0.113	0.000	37.000	225.000	5.000
Mean	0.696	2.656	37.031	306.094	5.156
Standard Dev	1.360	8.612	18.211	286.156	8.278
Variance	1.849	74.168	331.644	81885.055	68.523

	S	TI	V	ZN	AG
N of cases	32	32	32	32	32
Minimum	-50.000	130.000	29.000	9.000	-0.100
Maximum	20500.000	10700.000	260.000	95.000	13.500
Range	20550.000	10570.000	231.000	86.000	13.600
Median	350.000	290.000	86.500	33.500	0.300
Mean	1398.438	869.062	96.625	38.250	0.841
Standard Dev	3614.877	1869.071	49.923	22.483	2.376
Variance	1.30673E+07	3493426.512	2492.306	505.484	5.646

	AS	BI	CD	CE	CO
N of cases	32	32	32	32	32
Minimum	-0.500	0.200	-0.100	1.500	3.600
Maximum	10.500	4.400	0.400	150.000	270.000
Range	11.000	4.200	0.500	148.500	266.400
Median	1.250	1.000	-0.100	7.250	54.000
Mean	1.484	1.347	-0.050	19.016	62.925
Standard Dev	2.194	1.090	0.132	35.260	51.174
Variance	4.814	1.187	0.017	1243.266	2618.780

	CS	GA	IN	LA	MO
N of cases	32	32	32	32	32
Minimum	-0.100	6.000	-0.050	1.000	0.700
Maximum	4.200	25.000	1.650	76.000	41.500
Range	4.300	19.000	1.700	75.000	40.800
Median	0.100	14.750	0.100	4.000	4.100
Mean	0.256	14.844	0.191	10.609	7.838
Standard Dev	0.749	5.265	0.354	18.427	11.070
Variance	0.561	27.717	0.125	339.544	122.535

	ND	RB	SB	SE	SM
N of cases	32	32	32	31	32
Minimum	0.840	-0.100	-0.500	-0.500	0.270
Maximum	89.000	72.000	0.500	15.000	16.000
Range	88.160	72.100	1.000	15.500	15.730
Median	3.650	9.000	-0.500	2.000	1.175
Mean	11.203	16.519	-0.469	2.677	2.692
Standard Dev	20.768	18.155	0.177	3.116	4.022
Variance	431.299	329.603	0.031	9.709	16.178

	SN	SR	TE	TH	TL
N of cases	32	32	32	32	32
Minimum	0.900	3.300	-0.200	0.600	-0.100
Maximum	22.500	230.000	2.500	41.000	0.800
Range	21.600	226.700	2.700	40.400	0.900
Median	9.500	15.250	0.250	3.950	-0.100
Mean	10.131	25.647	0.400	6.887	0.047
Standard Dev	5.536	39.691	0.673	8.038	0.209
Variance	30.653	1575.374	0.454	64.604	0.044

	U	W	Y	HF	PT
N of cases	32	32	32	32	20
Minimum	0.950	-0.100	0.600	-1.000	-0.200
Maximum	51.000	7.500	105.000	19.000	-0.200
Range	50.050	7.600	104.400	20.000	0.000
Median	5.500	1.550	3.850	-1.000	-0.200
Mean	9.891	1.687	10.809	1.156	-0.200
Standard Dev	12.946	1.549	20.033	4.136	0.000
Variance	167.593	2.398	401.325	17.104	0.000

	PD	DY	ER	EU	GD
N of cases	20	32	32	32	32
Minimum	-20.000	0.150	0.100	0.100	0.200
Maximum	-20.000	19.000	10.000	3.400	16.000
Range	0.000	18.850	9.900	3.300	15.800
Median	-20.000	0.715	0.350	0.290	0.875
Mean	-20.000	1.943	0.992	0.565	2.231
Standard Dev	0.000	3.483	1.840	0.770	3.404
Variance	0.000	12.129	3.386	0.593	11.590

	HO	LU	PR	TB	TM
N of cases	32	32	32	32	32
Minimum	0.030	-0.020	0.250	-0.020	-0.050
Maximum	3.700	1.500	26.000	2.500	1.600
Range	3.670	1.520	25.750	2.520	1.650
Median	0.125	0.060	0.850	0.115	0.000
Mean	0.353	0.174	2.966	0.285	0.116
Standard Dev	0.674	0.313	5.974	0.478	0.317
Variance	0.454	0.098	35.689	0.228	0.101

	YB	HG
N of cases	32	32
Minimum	0.100	-0.050
Maximum	9.500	0.450
Range	9.400	0.500
Median	0.375	-0.050
Mean	1.034	-0.025
Standard Dev	1.809	0.094
Variance	3.272	0.009

Faugh-a-Ballagh stream sediment samples

	AU	AL	BA	CA	CR
N of cases	16	16	16	16	16
Minimum	-1.000	6.280	100.000	0.285	38.000
Maximum	10.000	8.530	195.000	0.735	145.000
Range	11.000	2.250	95.000	0.450	107.000
Median	-1.000	6.960	127.500	0.610	65.000
Mean	0.125	7.149	137.500	0.604	74.875
Standard Dev	2.802	0.736	30.605	0.102	32.843
C.V.	22.414	0.103	0.223	0.169	0.439

	CU	FE	K	MG	MN
N of cases	16	16	16	16	16
Minimum	8.000	4.320	0.540	0.230	175.000
Maximum	185.000	15.900	1.410	0.345	320.000
Range	177.000	11.580	0.870	0.115	145.000
Median	18.500	8.555	0.767	0.260	210.000
Mean	28.937	9.071	0.898	0.266	223.437
Standard Dev	42.048	3.765	0.280	0.028	43.271
C.V.	1.453	0.415	0.312	0.105	0.194

	NA	NB	NI	P	PB
N of cases	16	16	16	16	16
Minimum	2.750	10.000	3.000	260.000	-5.000
Maximum	5.430	15.000	20.000	390.000	-5.000
Range	2.680	5.000	17.000	130.000	0.000
Median	4.260	10.000	9.500	320.000	-5.000
Mean	4.244	10.313	9.438	321.875	-5.000
Standard Dev	0.687	1.250	4.273	31.031	0.000
C.V.	0.162	0.121	0.453	0.096	0.000

	S	TI	V	ZN	AG
N of cases	16	16	16	16	16
Minimum	-50.000	2050.000	66.000	12.000	0.200
Maximum	150.000	3950.000	195.000	22.000	0.400
Range	200.000	1900.000	129.000	10.000	0.200
Median	50.000	2575.000	105.000	13.500	0.300
Mean	46.875	2734.375	115.063	14.563	0.275
Standard Dev	56.181	539.975	42.009	2.828	0.058
C.V.	1.199	0.197	0.365	0.194	0.210

	AS	BI	CD	CE	CO
N of cases	16	16	16	16	16
Minimum	-0.500	-0.100	-0.100	26.500	4.100
Maximum	5.500	0.600	-0.100	105.000	21.500
Range	6.000	0.700	0.000	78.500	17.400
Median	0.500	-0.100	-0.100	54.000	10.750
Mean	0.781	0.031	-0.100	57.563	10.756
Standard Dev	1.483	0.192	0.000	23.170	4.674
C.V.	1.898	6.152	0.000	0.403	0.435

	CS	GA	IN	LA	MO
N of cases	16	16	16	16	16
Minimum	0.400	20.000	-0.050	15.500	0.500
Maximum	1.200	23.000	0.050	65.000	1.700
Range	0.800	3.000	0.100	49.500	1.200
Median	0.500	21.500	-0.050	33.500	0.750
Mean	0.581	21.500	-0.044	34.375	0.825
Standard Dev	0.194	0.983	0.025	14.883	0.357
C.V.	0.334	0.046	-0.571	0.433	0.433

	ND	RB	SB	SE	SM
N of cases	16	16	16	16	16
Minimum	16.500	5.500	-0.500	-0.500	3.200
Maximum	50.000	70.000	0.500	-0.500	9.500
Range	33.500	64.500	1.000	0.000	6.300
Median	28.500	20.750	-0.500	-0.500	5.250
Mean	29.375	24.000	-0.375	-0.500	5.563
Standard Dev	9.451	16.819	0.342	0.000	1.713
C.V.	0.322	0.701	-0.911	0.000	0.308

	SN	SR	TE	TH	TL
N of cases	16	16	16	16	16
Minimum	3.300	45.500	-0.200	8.500	-0.100
Maximum	5.500	69.000	-0.200	22.000	0.300
Range	2.200	23.500	0.000	13.500	0.400
Median	4.150	58.000	-0.200	13.750	-0.100
Mean	4.362	56.688	-0.200	14.156	0.038
Standard Dev	0.667	6.126	0.000	4.578	0.163
C.V.	0.153	0.108	0.000	0.323	4.341

	U	W	Y	HF	DY
N of cases	16	16	16	16	16
Minimum	1.100	0.300	8.000	3.000	1.950
Maximum	4.200	1.500	20.000	4.000	4.300
Range	3.100	1.200	12.000	1.000	2.350
Median	2.050	0.500	11.250	4.000	2.600
Mean	2.097	0.637	12.344	3.875	2.822
Standard Dev	0.806	0.342	3.780	0.342	0.706
C.V.	0.384	0.537	0.306	0.088	0.250

	ER	EU	GD	HO	LU
N of cases	16	16	16	16	16
Minimum	0.950	0.580	2.200	0.340	0.170
Maximum	2.000	1.550	6.000	0.720	0.330
Range	1.050	0.970	3.800	0.380	0.160
Median	1.325	0.955	3.650	0.465	0.220
Mean	1.359	0.954	3.750	0.483	0.234
Standard Dev	0.327	0.254	1.083	0.117	0.051
C.V.	0.240	0.266	0.289	0.243	0.216

	PR	TB	TM	YB
N of cases	16	16	16	16
Minimum	4.400	0.280	0.150	1.050
Maximum	14.000	0.690	0.350	2.200
Range	9.600	0.410	0.200	1.150
Median	8.000	0.420	0.200	1.425
Mean	8.175	0.439	0.228	1.522
Standard Dev	2.713	0.117	0.060	0.348
C.V.	0.332	0.266	0.265	0.229

Faugh-a-Ballagh rock-chip samples

n=32

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe
Ag	1																
Al	0.123	1															
As	-0.207	0.291	1														
Au	0.626	-0.014	-0.002	1													
Ba	-0.148	0.196	0.329	-0.092	1												
Bi	0.161	-0.393	0.086	0.441	-0.245	1											
Ca	-0.053	0.695	0.146	0.139	0.129	-0.222	1										
Cd	0.28	0.179	0.167	0.087	0.273	-0.33	0.097	1									
Ce	0.52	0.474	0.088	0.445	0.139	-0.028	0.35	-0.048	1								
Co	-0.193	-0.303	0.142	0.144	0.149	0.323	-0.169	-0.103	-0.31	1							
Cr	0.025	0.471	0.311	0.086	0.225	-0.304	0.411	0.06	0.346	-0.173	1						
Cs	0.542	0.257	0.185	0.498	0.185	0.056	0.109	0.052	0.561	-0.03	0.068	1					
Cu	0.813	0.108	-0.145	0.774	-0.174	0.266	0.096	0.057	0.534	-0.096	0.083	0.71	1				
Dy	0.207	0.525	0.262	0.346	0.131	0.045	0.641	0.119	0.473	0.149	0.233	0.344	0.26	1			
Er	0.194	0.566	0.278	0.323	0.122	0.007	0.676	0.092	0.481	0.16	0.286	0.347	0.247	0.992	1		
Eu	0.061	0.555	0.276	0.222	0.341	-0.042	0.636	0.048	0.497	0.098	0.285	0.31	0.146	0.925	0.92	1	
Fe	-0.186	-0.746	-0.342	-0.321	0.073	0.047	-0.643	0.033	-0.515	0.218	-0.48	-0.218	-0.304	-0.456	-0.5	-0.399	1
Ga	0.094	0.265	-0.235	-0.214	0.335	-0.406	-0.007	0.11	0.309	-0.172	0.123	0.166	0.018	0.157	0.133	0.273	0.16
Gd	0.239	0.543	0.207	0.406	0.109	0.029	0.688	0.105	0.562	0.034	0.323	0.344	0.313	0.966	0.96	0.925	-0.522
Hf	0.269	0.85	0.234	0.014	0.298	-0.528	0.536	0.345	0.531	-0.288	0.557	0.244	0.142	0.536	0.563	0.55	-0.585
Hg	0.239	0.298	0.38	0.358	0.296	0.032	0.379	0.422	0.413	-0.212	0.411	0.188	0.219	0.315	0.31	0.366	-0.366
Ho	0.192	0.547	0.254	0.332	0.146	0.038	0.665	0.125	0.456	0.154	0.212	0.339	0.243	0.995	0.99	0.931	-0.455
In	0.705	0.28	0.057	0.711	-0.132	0.167	0.239	0.137	0.538	-0.188	0.15	0.673	0.887	0.38	0.359	0.263	-0.437
K	0.348	0.318	0.31	0.334	0.475	-0.108	0.023	0.303	0.352	-0.096	0.09	0.552	0.306	0.248	0.221	0.277	-0.101
La	0.442	0.439	0.041	0.387	0.214	-0.09	0.402	0.015	0.934	-0.331	0.317	0.608	0.488	0.479	0.487	0.537	-0.385
Lu	0.225	0.632	0.287	0.297	0.098	-0.052	0.665	0.124	0.49	0.086	0.318	0.376	0.239	0.969	0.984	0.892	-0.539
Mg	0.53	0.518	0.231	0.511	-0.047	0.013	0.466	0.032	0.57	-0.194	0.297	0.803	0.734	0.447	0.467	0.35	-0.605
Mn	0.254	-0.072	-0.082	0.181	-0.061	-0.029	0.055	0.049	0.143	0.067	-0.348	0.465	0.369	0.084	0.09	0.066	0.03
Mo	-0.103	-0.472	0.162	0.113	0.064	0.18	-0.555	0.183	-0.418	0.198	0.067	-0.309	-0.165	-0.354	-0.381	-0.383	0.349
Na	0.1	0.697	0.005	-0.101	0.229	-0.379	0.444	0.152	0.416	-0.41	0.589	-0.076	0.026	0.287	0.295	0.386	-0.521
Nb	0.078	-0.266	-0.077	-0.217	0.134	0.024	-0.448	0.225	-0.309	-0.001	-0.231	-0.172	-0.323	-0.159	-0.19	-0.143	0.53
Nd	0.216	0.629	0.226	0.322	0.105	-0.071	0.679	0.004	0.728	-0.067	0.375	0.404	0.303	0.881	0.893	0.902	-0.573
Ni	0.018	-0.687	-0.212	0.084	-0.06	0.508	-0.612	0.032	-0.513	0.502	-0.658	-0.277	-0.09	-0.33	-0.385	-0.388	0.616
P	-0.061	0.676	0.569	0.032	0.29	-0.121	0.48	0.234	0.232	-0.071	0.398	0.186	-0.072	0.415	0.431	0.391	-0.519
Pb	0.258	-0.166	0.003	0.047	0.19	0.032	-0.211	0.388	-0.153	0.14	-0.082	0.079	0.13	-0.127	-0.15	-0.224	0.192
Pr	0.282	0.647	0.185	0.308	0.107	-0.105	0.656	-0.025	0.831	-0.166	0.411	0.457	0.365	0.778	0.802	0.813	-0.584
Rb	0.501	0.142	0.145	0.383	0.404	0.039	-0.157	0.262	0.338	-0.03	-0.023	0.661	0.405	0.191	0.162	0.186	0.047
S	-0.031	-0.304	0.059	0.093	0.112	0.388	-0.125	0.115	-0.35	0.232	-0.021	-0.375	-0.187	0.051	0.021	-0.012	0.198
Sb	-0.098	0.243	0.287	-0.195	-0.263	-0.088	0.302	-0.077	0.019	-0.126	0.098	-0.04	-0.088	0.263	0.264	0.185	-0.243
Se	-0.006	-0.044	0.442	0.491	0.318	0.447	0.112	0.092	0.011	0.498	0.043	0.066	0.103	0.196	0.186	0.201	-0.139
Sm	0.125	0.559	0.217	0.301	0.171	-0.017	0.688	0.029	0.579	-0.007	0.345	0.296	0.215	0.927	0.927	0.958	-0.493
Sn	0.131	-0.298	-0.045	0.003	0.096	-0.127	-0.42	0.372	-0.26	-0.124	-0.16	-0.004	0.026	-0.404	-0.437	-0.292	0.423
Sr	-0.126	0.702	0.416	-0.082	0.444	-0.145	0.696	0.052	0.344	-0.116	0.522	0.109	-0.126	0.578	0.596	0.598	-0.497
Tb	0.234	0.544	0.225	0.383	0.12	0.01	0.67	0.111	0.537	0.089	0.276	0.386	0.314	0.986	0.981	0.93	-0.488
Te	-0.004	0.127	0.267	0.461	0.113	0.458	0.361	-0.039	0.144	0.382	0.136	-0.059	0.038	0.499	0.506	0.46	-0.356
Th	0.187	0.589	0.341	-0.037	0.444	-0.339	0.204	0.203	0.516	-0.271	0.589	0.214	0.048	0.346	0.356	0.422	-0.29
Ti	0.189	0.738	0.393	0.214	0.23	-0.194	0.563	0.09	0.579	-0.169	0.66	0.422	0.229	0.575	0.612	0.628	-0.643
Tl	0.365	0.17	0.249	0.38	0.214	0.243	-0.004	0.079	0.459	-0.136	0.092	0.715	0.398	0.275	0.257	0.24	-0.112
Tm	0.187	0.616	0.246	0.254	0.094	-0.13	0.637	0.11	0.439	0.097	0.296	0.322	0.228	0.915	0.93	0.839	-0.476
U	0.706	0.022	0.197	0.588	0.109	0.364	-0.159	0.167	0.421	0.063	-0.078	0.719	0.74	0.202	0.175	0.087	-0.105
V	-0.204	0.012	0.044	-0.439	0.307	-0.265	0.013	0.195	0.077	-0.11	0.112	-0.203	-0.488	-0.03	-0.014	0.093	0.308
W	0.493	-0.24	-0.088	0.235	-0.053	-0.054	-0.52	0.186	0.056	-0.052	-0.24	0.461	0.321	-0.229	-0.233	-0.287	0.283
Y	0.204	0.563	0.241	0.313	0.142	0.004	0.675	0.129	0.461	0.143	0.25	0.36	0.256	0.992	0.992	0.929	-0.455
Yb	0.225	0.604	0.294	0.296	0.108	-0.013	0.639	0.109	0.479	0.124	0.284	0.374	0.25	0.975	0.986	0.905	-0.505
Zn	0.251	0.069	0.068	0.184	0.056	-0.095	0.013	0.289	-0.016	0.17	-0.185	0.464	0.265	0.123	0.123	0.042	0.018

	Ga	Gd	Hf	Hg	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb
Ga	1																					
Gd	0.155	1																				
Hf	0.432	0.56	1																			
Hg	-0.163	0.389	0.315	1																		
Ho	0.138	0.958	0.537	0.309	1																	
In	0.083	0.416	0.294	0.249	0.353	1																
K	0.396	0.213	0.374	0.208	0.251	0.384	1															
La	0.359	0.576	0.487	0.39	0.473	0.496	0.377	1														
Lu	0.159	0.938	0.624	0.299	0.968	0.371	0.27	0.504	1													
Mg	0.01	0.464	0.426	0.241	0.443	0.792	0.392	0.534	0.507	1												
Mn	-0.145	0.021	-0.123	0.123	0.103	0.346	0.153	0.193	0.093	0.41	1											
Mo	-0.19	-0.401	-0.328	0.001	-0.377	-0.183	0.052	-0.482	-0.396	-0.427	-0.355	1										
Na	0.375	0.383	0.76	0.261	0.28	0.103	0.063	0.343	0.335	0.196	-0.349	-0.217	1									
Nb	0.274	-0.185	-0.037	-0.3	-0.16	-0.312	0.213	-0.233	-0.145	-0.406	-0.372	0.287	-0.105	1								
Nd	0.222	0.934	0.605	0.413	0.88	0.389	0.192	0.737	0.881	0.501	0.084	-0.516	0.433	-0.308	1							
Ni	-0.076	-0.411	-0.641	-0.376	-0.332	-0.185	0.008	-0.525	-0.436	-0.503	-0.016	0.417	-0.574	0.457	-0.572	1						
P	0.095	0.377	0.599	0.418	0.404	0.23	0.306	0.163	0.482	0.358	-0.094	-0.112	0.394	-0.136	0.358	-0.401	1					
Pb	0.185	-0.204	-0.027	-0.008	-0.127	0.097	0.266	-0.135	-0.155	-0.018	0.108	0.266	-0.216	0.193	-0.269	0.346	-0.073	1				
Pr	0.257	0.848	0.62	0.431	0.777	0.416	0.187	0.84	0.797	0.54	0.104	-0.561	0.461	-0.361	0.971	-0.637	0.331	-0.263	1			
Rb	0.387	0.149	0.243	0.142	0.193	0.356	0.909	0.364	0.209	0.39	0.181	0.091	-0.046	0.338	0.117	0.106	0.123	0.343	0.124	1		
S	-0.433	0.012	-0.256	0.21	0.057	-0.328	-0.168	-0.38	-0.047	-0.423	-0.409	0.499	-0.126	0.258	-0.185	0.31	-0.169	0.096	-0.272	-0.068	1	
Sb	-0.068	0.185	0.186	-0.058	0.263	0.212	-0.029	-0.01	0.283	0.302	0.302	-0.302	0.01	-0.168	0.204	-0.263	0.282	-0.04	0.146	-0.205	-0.292	1
Se	-0.393	0.206	-0.134	0.389	0.201	0.074	0.173	-0.045	0.118	0.012	-0.128	0.225	-0.16	-0.121	0.112	0.264	0.222	0.065	0.05	0.089	0.417	-0.284
Sm	0.203	0.971	0.543	0.426	0.923	0.337	0.169	0.603	0.901	0.386	0.025	-0.418	0.412	-0.23	0.956	-0.467	0.39	-0.29	0.881	0.086	-0.039	0.185
Sn	0.012	-0.369	-0.16	0.169	-0.394	-0.021	0.159	-0.243	-0.414	-0.143	0.232	0.382	-0.087	0.271	-0.365	0.258	-0.178	0.267	-0.372	0.214	-0.063	-0.185
Sr	0.173	0.548	0.671	0.332	0.595	0.045	0.252	0.349	0.607	0.314	-0.217	-0.292	0.528	-0.128	0.539	-0.561	0.677	-0.071	0.518	0.126	0.064	0.302
Tb	0.174	0.987	0.566	0.349	0.981	0.428	0.234	0.555	0.959	0.48	0.079	-0.4	0.315	-0.192	0.922	-0.397	0.402	-0.158	0.833	0.175	-0.007	0.224
Te	-0.339	0.521	0.02	0.431	0.503	0.016	0.074	0.132	0.471	-0.019	-0.109	0.057	0.013	-0.16	0.414	0.097	0.235	-0.029	0.332	0.025	0.412	-0.2
Th	0.555	0.368	0.804	0.343	0.329	0.134	0.484	0.446	0.391	0.199	-0.362	-0.029	0.619	0.155	0.438	-0.458	0.539	0.066	0.478	0.4	-0.088	-0.029
Ti	0.252	0.634	0.731	0.426	0.567	0.349	0.346	0.531	0.671	0.619	-0.03	-0.335	0.626	-0.171	0.699	-0.658	0.643	-0.155	0.696	0.25	-0.304	0.195
Tl	0.208	0.265	0.137	0.318	0.267	0.343	0.678	0.522	0.311	0.48	0.166	-0.066	-0.074	0.081	0.284	-0.133	0.219	0.121	0.318	0.802	-0.082	-0.151
Tm	0.214	0.864	0.604	0.259	0.912	0.356	0.298	0.444	0.933	0.443	0.083	-0.37	0.286	-0.198	0.82	-0.419	0.427	-0.108	0.74	0.194	-0.032	0.292
U	0.092	0.147	0.086	0.178	0.18	0.69	0.606	0.369	0.188	0.599	0.378	0.058	-0.117	-0.013	0.116	0.159	0.073	0.29	0.161	0.724	-0.11	-0.049
V	0.282	-0.04	0.13	0.2	-0.024	-0.476	0.036	0.192	0.032	-0.309	-0.006	-0.074	0.168	0.324	0.039	-0.12	0.073	-0.124	0.083	0.049	-0.041	0.01
W	-0.05	-0.269	-0.067	-0.046	-0.223	0.136	0.278	0.062	-0.18	0.161	0.258	0.231	-0.308	0.332	-0.229	0.109	-0.28	0.108	-0.173	0.515	0.016	-0.292
Y	0.153	0.959	0.553	0.303	0.996	0.357	0.242	0.486	0.974	0.467	0.11	-0.393	0.299	-0.166	0.886	-0.369	0.397	-0.13	0.789	0.191	0.039	0.263
Yb	0.169	0.931	0.611	0.293	0.976	0.368	0.259	0.486	0.992	0.494	0.098	-0.378	0.312	-0.139	0.875	-0.404	0.458	-0.135	0.79	0.21	-0.018	0.283
Zn	-0.059	-0.003	0.04	0.045	0.145	0.354	0.249	0.052	0.167	0.404	0.727	-0.014	-0.271	-0.141	0.004	0	0.174	0.393	-0.008	0.302	-0.291	0.302

	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Se	1															
Sm	0.165	1														
Sn	0.01	-0.338	1													
Sr	0.089	0.565	-0.428	1												
Tb	0.188	0.955	-0.386	0.56	1											
Te	0.687	0.503	-0.22	0.291	0.482	1										
Th	-0.012	0.392	-0.055	0.615	0.368	0.011	1									
Ti	0.143	0.634	-0.14	0.596	0.605	0.228	0.638	1								
Tl	0.065	0.236	-0.036	0.251	0.273	0.181	0.325	0.348	1							
Tm	0.156	0.834	-0.437	0.577	0.901	0.418	0.417	0.612	0.248	1						
U	0.152	0.058	0.112	-0.018	0.175	0.06	0.151	0.153	0.658	0.164	1					
V	-0.2	0.044	0.131	0.219	-0.053	-0.032	0.215	0.114	0.117	-0.012	-0.172	1				
W	-0.186	-0.331	0.38	-0.4	-0.227	-0.351	-0.002	-0.165	0.361	-0.233	0.441	-0.033	1			
Y	0.169	0.923	-0.4	0.593	0.981	0.473	0.335	0.59	0.269	0.919	0.178	-0.007	-0.215	1		
Yb	0.133	0.895	-0.401	0.606	0.961	0.458	0.4	0.647	0.298	0.934	0.207	0.024	-0.161	0.98	1	
Zn	-0.122	-0.034	0.274	-0.052	0.09	-0.131	-0.208	0.042	0.196	0.1	0.38	-0.068	0.377	0.154	0.17	1

At the 99.9% level, all values >0.54 or <-0.54 are significant; in this report, only values >0.65 or <-0.65 are discussed.

Faugh-a-Ballagh <6 mm soils n=129

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Ag	1																																																				
Al	0.376	1																																																			
As	0.113	0.148	1																																																		
Au	-0.003	-0.017	0.077	1																																																	
Ba	0.284	0.466	0.168	-0.214	1																																																
Bi	-0.049	-0.116	0.381	0.282	0.011	1																																															
Ca	-0.012	-0.19	0.063	-0.035	0.043	0.071	1																																														
Cd	0.121	0.075	0.244	0.212	-0.063	0.125	-0.032	1																																													
Ce	0.251	0.481	-0.004	-0.057	0.203	-0.091	-0.116	-0.038	1																																												
Co	-0.127	0.007	0.03	0.399	-0.328	0.319	-0.092	0.205	0.248	1																																											
Cr	-0.046	0.159	-0.063	0.253	-0.171	-0.028	0.025	0.193	0.194	0.52	1																																										
Cs	0.29	0.491	0.334	-0.204	0.703	0.089	0.024	-0.001	0.304	-0.263	-0.28	1																																									
Cu	-0.018	0.098	0.112	0.601	-0.083	0.145	-0.205	0.151	0.106	0.261	0.146	-0.018	1																																								
Dy	0.273	0.025	0.144	0.137	0.051	0.162	0.425	0.096	0.31	0.037	-0.009	0.156	0.024	1																																							
Er	0.345	0.05	0.288	0.102	0.282	0.349	0.391	0.136	-0.062	-0.195	-0.203	0.299	-0.018	0.64	1																																						
Eu	0.263	0.42	0.141	0.044	0.289	0.122	0.035	0.102	0.805	0.266	0.154	0.429	0.101	0.55	0.229	1																																					
Fe	-0.206	-0.299	-0.103	0.363	-0.418	0.175	0.06	0.124	-0.067	0.672	0.649	-0.63	0.171	0.018	-0.172	-0.049	1																																				
Ga	0.383	0.633	0.071	0.057	0.076	-0.079	-0.029	0.072	0.412	0.171	0.362	0.173	0.013	0.159	0.169	0.377	0.014	1																																			
Gd	0.274	0.305	0.037	0.061	0.063	0.067	0.078	0.008	0.791	0.255	0.14	0.229	0.025	0.7	0.223	0.86	-0.003	0.372	1																																		
Hf	0.182	0.142	-0.134	0.066	-0.216	-0.125	-0.337	0.041	0.244	0.098	-0.021	-0.216	0.095	0.087	-0.168	0.157	-0.003	0.239	0.285	1																																	
Ho	0.183	-0.11	0.171	0.236	-0.012	0.179	0.442	0.129	0.104	0.017	-0.001	-0.007	0.108	0.92	0.643	0.34	0.133	0.064	0.471	0.083	1																																
In	-0.004	0.359	0.071	0.142	0.282	0.001	0.002	0.088	0.149	0.11	0.202	0.319	0.25	0.091	0.092	0.285	0.015	0.237	0.09	-0.049	0.074	1																															
K	0.337	0.573	0.111	-0.223	0.815	-0.088	-0.196	-0.106	0.319	-0.286	-0.268	0.802	-0.063	0.031	0.176	0.358	-0.592	0.163	0.18	-0.039	-0.095	0.301	1																														
La	0.316	0.538	0.063	-0.111	0.328	0.003	-0.102	-0.031	0.939	0.156	0.093	0.458	0.037	0.323	0.113	0.81	-0.21	0.464	0.772	0.161	0.101	0.174	0.455	1																													
Lu	0.113	-0.245	0.193	0.301	-0.121	0.183	0.467	0.134	-0.129	-0.022	-0.062	-0.19	0.148	0.724	0.562	0.067	0.17	-0.035	0.186	0.118	0.892	0.008	-0.27	-0.157	1																												
Mg	0.181	0.442	0.009	-0.092	0.398	-0.071	0.382	0.1	0.349	0.05	0.102	0.537	-0.017	0.281	0.211	0.496	-0.17	0.339	0.367	-0.106	0.139	0.463	0.357	0.401	-0.022	1																											
Mn	0.07	-0.003	0.075	0.019	0.314	0.093	0.685	0.064	-0.027	-0.12	0.171	0.227	-0.003	0.437	0.455	0.216	0.076	0.105	0.133	-0.32	0.47	0.229	0.045	-0.009	0.411	0.521	1																										
Mo	-0.091	-0.135	0.035	0.222	-0.468	0.242	-0.205	0.115	0.122	0.625	0.289	-0.486	0.168	-0.013	-0.31	0.059	0.581	0.013	0.163	0.161	-0.015	-0.139	-0.442	-0.011	0.043	-0.224	-0.307	1																									
Na	-0.151	-0.181	-0.18	0.09	-0.626	-0.215	-0.079	-0.018	-0.126	0.071	0.298	-0.738	-0.028	-0.17	-0.299	-0.314	0.377	0.107	-0.133	0.246	-0.091	-0.238	-0.674	-0.234	0.048	-0.435	-0.273	0.301	1																								
Nb	0.362	0.434	0.145	0.032	0.393	0.016	-0.105	0.045	0.186	-0.163	0.072	0.356	0.202	0.108	0.371	0.191	-0.243	0.3	0.099	0.028	0.093	0.221	0.421	0.258	-0.029	0.155	0.196	-0.372	-0.205	1																							
Nd	0.27	0.48	0.052	-0.02	0.213	0.024	-0.084	0	0.936	0.232	0.198	0.348	0.04	0.415	0.09	0.863	-0.087	0.455	0.881	0.212	0.184	0.158	0.333	0.95	-0.093	0.385	0.02	0.093	-0.135	0.198	1																						
Ni	0.122	0.524	0.072	0.169	0.206	0.044	0.003	0.189	0.425	0.488	0.531	0.343	0.153	0.12	-0.019	0.518	0.217	0.476	0.397	-0.091	-0.022	0.342	0.226	0.425	-0.206	0.624	0.237	0.145	-0.246	0.074	0.454	1																					
P	-0.249	-0.19	-0.183	-0.124	-0.383	0.031	0.08	-0.095	0.02	0.265	0.081	-0.347	-0.19	0	-0.19	-0.072	0.271	0.031	0.052	0.012	-0.003	-0.085	-0.335	-0.019	0.005	-0.014	-0.187	0.344	0.366	-0.345	0.034	-0.027	1																				
Pb	0.234	0.05	0.28	-0.128	0.388	0.233	0.245	0.005	-0.094	-0.257	-0.279	0.404	-0.215	0.183	0.487	0.031	-0.285	-0.031	-0.01	-0.285	0.133	-0.123	0.292	0.039	0.118	0.114	0.263	-0.227	-0.377	0.002	-0.036	0.059	-0.202	1																			
Pr	0.274	0.494	0.054	-0.025	0.244	0.006	-0.082	-0.001	0.942	0.217	0.197	0.36	0.051	0.389	0.078	0.844	-0.096	0.447	0.857	0.187	0.166	0.156	0.352	0.961	-0.109	0.383	0.016	0.064	-0.145	0.197	0.993	0.452	0.011	-0.021	1																		
Rb	0.343	0.582	0.121	-0.166	0.774	0.043	-0.197	-0.052	0.35	-0.205	-0.234	0.835	0.032	0.058	0.284	0.415	-0.564	0.204	0.221	-0.091	-0.081	0.356	0.935	0.518	-0.284	0.44	0.085	-0.435	-0.734	0.539	0.39	0.298	-0.375	0.27	0.406	1																	
S	-0.203	-0.147	-0.038	0.062	-0.167	0.288	0.057	0.022	0.095	0.573	0.188	-0.287	-0.003	-0.034	-0.14	0.05	0.389	-0.075	0.064	0.003	-0.02	-0.072	-0.273	0.025	0.022	0.03	-0.086	0.509	0.008	-0.203	0.07	0.109	0.377	-0.182	0.048	-0.195	1																
Se	-0.115	-0.1	-0.13	0.223	-0.133	0.28	-0.106	0.188	-0.005	0.308	0.224	-0.199	0.21	-0.136	-0.186	-0.088	0.307	-0.102	-0.082	0.03	-0.091	0.001	-0.14	-0.035	-0.041	-0.166	-0.131	0.231	0.01	0.05	-0.049	0.033	0.245	-0.261	-0.044	-0.086	0.273	1															
Sm	0.323	0.417	0.009	0.005	0.175	0.019	-0.028	0.018	0.884	0.231	0.169	0.286	0.021	0.526	0.158	0.87	-0.053	0.447	0.939	0.26	0.292	0.094	0.294	0.89	0.008	0.37	0.053	0.119	-0.131	0.182	0.961	0.434	0.044	-0.02	0.945	0.344	0.055	-0.059	1														
Sn	0.149	0.454	-0.12	0.082	-0.033	-0.146	-0.305	-0.05	0.245	0.225	0.236	0.046	0.04	-0.128	-0.187	0.122	0.09	0.445	0.099	0.314	-0.129	0.201	0.177	0.245	-0.152	0.102	-0.285	0.069	0.082	0.236	0.209	0.288	0.166	-0.343	0.194	0.189	-0.005	0.213	0.197	1													
Sr	0.191	0.26	0.163	-0.17	0.569	0.165	0.518	0.105	0.202	-0.069	-0.129	0.423	-0.101	0.25	0.358	0.312	-0.179	0.081	0.142	-0.181	0.211	0.114	0.315	0.281	0.192	0.53	0.45	-0.248	-0.451	0.083	0.163	0.234	-0.13	0.338	0.193	0.335	0.12	0.052	0.162	-0.065	1												
Tb	0.281	0.189	0.098	0.087	0.048	0.15	0.238	0.081	0.606	0.207	0.098	0.236	0.018	0.875	0.4	0.799	0.003	0.28	0.915	0.196	0.684	0.132	0.125	0.601	0.421	0.381	0.278	0.116	-0.188	0.116	0.714	0.319	0.047	0.046	0.683	0.174	0.042	-0.1	0.793	0.016	0.191	1											
Te	-0.201	-0.267	0	0.027	-0.105	0.303	0	-0.031	-0.294	0.261	-0.069	-0.233	-0.163	-0.099	-0.068	-0.207	0.316	-0.298	-0.163	-0.071	-0.075	-0.14	-0.158	-0.282	-0.022	-0.146	-0.135	0.325	-0.088	-0.205	-0.266	-0.124	0.271	-0.012	-0.281	-0.171	0.324	0.311	-0.228	0.043	-0.037	-0.118	1										
Th	0.145	0.293	-0.214	0.056	0.024	-0.142	-0.222	-0.063	0.64	0.315	0.109	-0.016	0.149	0.194	-0.31	0.454	0.118	0.168	0.551	0.549	0.1	0.079	0.184	0.498	-0.004	0.122	-0.188	0.344	-0.06	-0.038	0.539	0.237	0.121	-0.288	0.53	0.119	0.141	0.152	0.559	0.373	0.061	0.419	-0.021	1									
Ti	0.279	0.547	0.162	-0.13	0.526	-0.006	0.248	0.112	0.342	-0.048	0.282	0.609	-0.066	0.175	0.256	0.437	-0.189	0.49	0.263	-0.181	0.049	0.365	0.45	0.423	-0.109	0.694	0.524	-0.351	-0.404	0.328	0.387	0.576	-0.263	0.229	0.4	0.496	-0.157	-0.194	0.316	0.058	0.444	0.26	-0.288	-0.006	1								
Tl	0.302	0.544	0.139	-0.201	0.768	-0.038	-0.142	-0.062	0.331	-0.258	-0.244	0.863	-0.017	0.063	0.189	0.377	-0.594	0.144	0.206	-0.109	-0.087	0.36	0.92	0.474	-0.295	0.46	0.112	-0.472	-0.679	0.419	0.365	0.303	-0.345	0.27	0.386	0.93	-0.263	-0.134	0.31	0.15	0.334	0.165	-0.195	0.12	0.477	1							
Tm	0.096	-0.253	0.195	0.266	-0.106	0.168	0.481	0.128	-0.103	-0.054	-0.118	-0.138	0.16	0.748	0.574	0.092	0.122	-0.06	0.211	0.067	0.897	-0.047	-0.229	-0.132	0.938	-0.025	0.421	-0.028	0.021	0.019	-0.073	-0.216	-0.029	0.105	-0.091	-0.245	-0.041	-0.069	0.038	-0.188	0.198	0.437	-0.082	-0.017	-0.115	-0.24	1						
U	0.008	0.198	-0.238	0.197	-0.138	-0.027	-0.418	-0.087	0.36	0.417	0.093	-0.179	0.351	-0.065	-0.372	0.2	0.191	0.099	0.242	0.507	-0.111	0.113	0.042	0.235	-0.137	-0.043	-0.353	0.47	0.048	0.037	0.256	0.185	0.092	-0.414	0.241	0.07	0.271	0.22	0.248	0.367	-0.152	0.146	0.038	0.698	-0.236	0.027	-0.157	1					
V	-0.057	-0.016	0.05	0.295	-0.304	0.153	0.114	0.208	0.148	0.63	0.78	-0.358	0.157	0.11	-0.128	0.194	0.802	0.277	0.214	-0.057	0.117	0.02	-0.435	0.041	0.088	0.063	0.149	0.51	0.28	-0.199	0.169	0.519	0.184	-0.138	0.166	-0.398	0.271	0.241	0.179	0.089	-0.041	0.188	0.09	0.079	0.175	-0.416	0.036	0.059	1				
W	-0.188	0.154	0.083	0.232	-0.234	0.026	-0.318	0.119	0.133	0.448	0.257	-0.244	0.373	-0.183	-0.476	0.068	0.306	0.016	-0.013	0.344	-0.075	0.195	-0.147	0	0.001	-0.108	-0.276	0.477	0.155	-0.057	0.045	0.161	0.181	-0.493	0.03	-0.169	0.329	0.278	-0.017	0.379	-0.153	-0.046	0.102	0.432	-0.211	-0.185	-0.062	0.562	0.217	1			
Y	0.13	-0.169	0.19	0.193	-0.001	0.151	0.502	0.104	0.026	-0.032	-0.028	-0.039	0.057	0.871	0.587	0.241	0.126	0.001	0.372	0.034	0.955	0.037	-0.148	-0.001	0.922	0.114	0.49	0	-0.079	-0.009	0.075	-0.089	0.005	0.187	0.059	-0.166	0	-0.101	0.177	-0.206	0.258	0.602	-0.037	0.057	0.024	-0.159	0.907	-0.182	0.102	-0.089	1		
Yb	0.111	-0.231	0.228	0.333	-0.093	0.221	0.428	0.141	-0.133	-0.035	-0.065	-0.16	0.201	0.727	0.621	0.089	0.166	-0.027	0.183	0.071	0.9	0.029	-0.236	-0.138	0.975	-0.028	0.411	0.001	0.022	0.027	-0.081	-0.195	-0.019	0.111	-0.094	-0.233	-0.027	-0.037	0.016	-0.153	0.176	0.417	-0.032	-0.053	-0.106	-0.25	0.946	-0.164	0.08	-0.02	0.905	1	
Zn	0.171	0.215	0.357	-0.143	0.587	0.261	0.309	0.055	0.173	-0.125	-0.183	0.746	-0.005	0.285	0.416	0.4	-0.336	0.035	0.197	-0.33	0.179	0.228	0.488	0.282	0.046	0.594	0.5	-0.303	-0.742	0.137	0.21	0.37	-0.21	0.538	0.218	0.557	-0.01	-0.149	0.184	-0.224	0.602	0.276	-0.045	-0.093	0.615	0.567	0.062	-0.262	-0.102	-0.252	0.189	0.062	1

At the 99.9% level, all values >0.28 or <-0.28 are significant; in the report, only values >0.5 or <-0.5 are discussed.

Faugh-a-Ballagh <2 mm stream sediments

n=16

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pr	Rb	S	Sb	Sm	Sn	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Ag	1																																																	
Al	0.164	1																																																
As	0.139	0.146	1																																															
Au	-0.147	0.027	0.219	1																																														
Ba	-0.296	-0.263	-0.054	-0.202	1																																													
Bi	0.101	-0.051	0.038	0.353	-0.37	1																																												
Ca	0.155	-0.287	-0.132	0.113	-0.377	0.051	1																																											
Ce	0.194	-0.614	-0.19	-0.261	0.051	-0.301	0.446	1																																										
Co	-0.085	-0.705	-0.053	-0.305	0.499	-0.22	-0.085	0.677	1																																									
Cr	0.245	-0.629	-0.215	-0.041	-0.025	0.023	0.396	0.852	0.696	1																																								
Cs	-0.332	-0.368	0.28	-0.266	0.608	-0.343	-0.516	0.021	0.393	-0.219	1																																							
Cu	-0.39	-0.675	-0.098	0.129	0.147	0.261	0.037	0.485	0.704	0.614	0.181	1																																						
Dy	0.273	-0.48	-0.377	-0.228	-0.187	-0.246	0.555	0.912	0.449	0.809	-0.256	0.312	1																																					
Er	0.363	-0.38	-0.29	-0.159	-0.362	-0.153	0.651	0.836	0.285	0.75	-0.387	0.191	0.97	1																																				
Eu	0.129	-0.67	-0.25	-0.326	0.14	-0.279	0.418	0.961	0.725	0.828	0.043	0.499	0.906	0.811	1																																			
Fe	0.045	-0.674	-0.166	-0.124	0.126	0.062	0.216	0.815	0.852	0.924	-0.017	0.804	0.683	0.583	0.819	1																																		
Ga	0.655	0.294	0.168	-0.128	-0.633	0.118	0.249	0.261	-0.202	0.228	-0.501	-0.279	0.383	0.496	0.208	0.082	1																																	
Gd	0.233	-0.567	-0.231	-0.305	0.068	-0.349	0.439	0.982	0.674	0.845	-0.037	0.423	0.941	0.862	0.977	0.793	0.278	1																																
Hf	0.529	0	0.265	0.216	-0.331	0.319	-0.041	0.328	0.165	0.492	-0.308	0.165	0.35	0.412	0.267	0.41	0.583	0.329	1																															
Ho	0.352	-0.38	-0.329	-0.145	-0.339	-0.165	0.664	0.845	0.299	0.784	-0.418	0.207	0.973	0.994	0.812	0.606	0.478	0.869	0.39	1																														
In	-0.361	-0.084	0.392	-0.147	0.396	0.187	-0.422	-0.056	0.422	-0.084	0.451	0.422	-0.338	-0.394	-0.028	0.252	-0.256	-0.112	0.098	-0.42	1																													
K	-0.352	-0.241	0.029	-0.112	0.982	-0.345	-0.415	-0.046	0.458	-0.094	0.629	0.148	-0.284	-0.452	0.047	0.062	-0.696	-0.029	-0.328	-0.433	0.42	1																												
La	0.178	-0.703	-0.129	-0.248	0.116	-0.277	0.354	0.982	0.756	0.866	0.143	0.547	0.858	0.768	0.95	0.85	0.191	0.955	0.328	0.776	0	0.029	1																											
Lu	0.385	-0.308	-0.299	-0.137	-0.426	-0.098	0.687	0.783	0.226	0.732	-0.486	0.153	0.934	0.987	0.744	0.558	0.515	0.807	0.411	0.986	-0.393	-0.518	0.705	1																										
Mg	0.053	0.324	0.484	0.066	-0.435	0.547	0.108	-0.264	-0.403	-0.278	-0.191	-0.114	-0.281	-0.128	-0.296	-0.206	0.395	-0.325	0.309	-0.174	0.423	-0.396	-0.299	-0.077	1																									
Mn	0.564	-0.382	-0.207	-0.112	-0.252	0.04	0.544	0.765	0.442	0.85	-0.426	0.299	0.798	0.816	0.691	0.709	0.394	0.773	0.535	0.835	-0.225	-0.326	0.727	0.841	-0.146	1																								
Mo	0.54	0.034	0.366	-0.176	0.073	0.311	-0.056	0.056	0.281	0.234	-0.175	-0.023	-0.026	0.007	0.124	0.279	0.433	0.097	0.501	-0.004	0.371	0.064	0.084	0.031	0.35	0.298	1																							
Na	0.027	0.731	0.143	0.293	-0.5	0.143	-0.009	-0.717	-0.966	-0.717	-0.346	-0.686	-0.484	-0.333	-0.746	-0.868	0.197	-0.694	-0.164	-0.349	-0.42	-0.439	-0.784	-0.289	0.352	-0.52	-0.292	1																						
Nb	0.131	-0.252	0	-0.147	-0.283	-0.218	0.366	0.42	0.309	0.364	-0.12	0.169	0.422	0.422	0.421	0.364	0.284	0.421	0.098	0.42	-0.067	-0.252	0.421	0.421	0	0.421	0.228	-0.308	1																					
Nd	0.243	-0.585	-0.159	-0.322	0.05	-0.331	0.423	0.988	0.652	0.812	0.047	0.423	0.917	0.842	0.971	0.771	0.318	0.986	0.329	0.842	-0.084	-0.049	0.971	0.776	-0.254	0.728	0.09	-0.677	0.421	1																				
Ni	-0.127	-0.753	-0.064	-0.177	0.448	-0.108	-0.087	0.675	0.948	0.7	0.401	0.77	0.467	0.308	0.739	0.863	-0.185	0.659	0.247	0.312	0.422	0.424	0.765	0.232	-0.31	0.397	0.257	-0.931	0.365	0.658	1																			
P	0.323	0.439	-0.124	-0.219	-0.421	-0.404	0.218	0.216	-0.129	0.241	-0.552	-0.307	0.396	0.459	0.133	0.045	0.484	0.282	0.23	0.489	-0.428	-0.445	0.125	0.511	-0.094	0.405	-0.001	0.189	0.343	0.222	-0.22	1																		
Pr	0.244	-0.567	-0.165	-0.266	0.04	-0.363	0.452	0.993	0.643	0.822	0.005	0.406	0.924	0.854	0.959	0.766	0.306	0.99	0.33	0.86	-0.113	-0.058	0.968	0.798	-0.291	0.758	0.063	-0.672	0.423	0.993	0.632	0.259	1																	
Rb	-0.253	-0.559	-0.062	-0.311	0.841	-0.411	-0.267	0.366	0.807	0.268	0.675	0.425	0.086	-0.109	0.437	0.465	-0.502	0.358	-0.287	-0.09	0.42	0.8	0.461	-0.18	-0.534	0	0.105	-0.798	0.084	0.357	0.747	-0.379	0.346	1																
S	0.061	-0.242	0.39	-0.288	0.313	-0.309	-0.446	0.14	0.574	0.137	0.592	0.272	-0.043	-0.138	0.17	0.287	-0.186	0.154	0.046	-0.157	0.342	0.359	0.271	-0.196	-0.25	0.003	0.246	-0.451	0.342	0.18	0.56	-0.013	0.144	0.555	1															
Sb	0.192	0.205	0.199	-0.216	0.248	-0.319	-0.041	0.123	0	0.041	-0.022	-0.309	0.144	0.124	0.226	-0.041	0.395	0.205	0.143	0.123	-0.098	0.205	0.103	0.062	0.021	-0.123	0.334	0.082	-0.098	0.226	0.021	0.23	0.186	0.082	0.046	1														
Sm	0.247	-0.607	-0.219	-0.322	0.089	-0.344	0.38	0.979	0.707	0.858	0.027	0.443	0.927	0.84	0.976	0.809	0.26	0.993	0.329	0.846	-0.112	-0.007	0.972	0.778	-0.359	0.759	0.1	-0.721	0.422	0.987	0.701	0.257	0.984	0.4	0.233	0.206	1													
Sn	0.483	-0.235	-0.174	-0.399	0.132	-0.396	0.105	0.731	0.609	0.729	-0.059	0.179	0.666	0.602	0.658	0.652	0.244	0.752	0.391	0.632	-0.084	0.05	0.734	0.597	-0.385	0.772	0.273	-0.633	0.394	0.716	0.531	0.536	0.735	0.35	0.39	0.124	0.774	1												
Sr	-0.156	-0.495	-0.067	-0.249	0.688	-0.467	-0.004	0.549	0.708	0.394	0.373	0.293	0.387	0.226	0.677	0.488	-0.132	0.595	0	0.231	0.253	0.644	0.573	0.131	-0.377	0.127	0.243	-0.68	0.196	0.578	0.706	-0.183	0.565	0.759	0.268	0.493	0.592	0.342	1											
Tb	0.22	-0.569	-0.279	-0.268	0.01	-0.349	0.488	0.968	0.61	0.822	-0.078	0.387	0.968	0.901	0.969	0.747	0.279	0.992	0.308	0.903	-0.196	-0.084	0.932	0.846	-0.343	0.766	0.026	-0.632	0.421	0.973	0.607	0.291	0.98	0.295	0.092	0.185	0.981	0.705	0.562	1										
Th	0.022	-0.723	-0.137	-0.286	0.324	-0.202	0.118	0.852	0.936	0.82	0.259	0.741	0.661	0.515	0.853	0.917	-0.067	0.837	0.247	0.53	0.253	0.258	0.894	0.454	-0.389	0.631	0.154	-0.928	0.309	0.824	0.893	-0.026	0.819	0.655	0.429	-0.041	0.857	0.686	0.614	0.787	1									
Ti	0.522	-0.402	-0.244	-0.118	-0.232	-0.116	0.442	0.687	0.379	0.761	-0.261	0.174	0.728	0.749	0.577	0.576	0.245	0.675	0.39	0.773	-0.365	-0.295	0.685	0.774	-0.309	0.9	0.075	-0.455	0.421	0.641	0.336	0.451	0.679	0.037	0.118	-0.226	0.693	0.81	0.011	0.68	0.537	1								
Tl	-0.326	-0.131	0.055	-0.262	0.881	-0.464	-0.58	-0.062	0.504	-0.131	0.7	0.126	-0.323	-0.486	-0.031	0.065	-0.665	-0.061	-0.373	-0.465	0.478	0.879	0.025	-0.523	-0.467	-0.311	-0.012	-0.465	-0.223	-0.081	0.391	-0.282	-0.074	0.828	0.531	0.023	-0.024	0.184	0.468	-0.129	0.292	-0.189	1							
Tm	0.261	-0.215	-0.273	-0.103	-0.478	-0.141	0.644	0.746	0.149	0.652	-0.472	0.161	0.903	0.955	0.708	0.506	0.558	0.763	0.361	0.952	-0.377	-0.567	0.662	0.961	-0.018	0.702	-0.066	-0.191	0.435	0.749	0.194	0.546	0.764	-0.224	-0.196	0.149	0.734	0.507	0.113	0.804	0.38	0.639	-0.56	1						
U	-0.059	-0.714	-0.071	-0.285	0.431	-0.147	0.053	0.775	0.955	0.755	0.298	0.718	0.563	0.415	0.833	0.905	-0.05	0.764	0.246	0.424	0.42	0.372	0.831	0.352	-0.252	0.491	0.337	-0.954	0.364	0.76	0.961	-0.136	0.739	0.733	0.444	0.123	0.786	0.591	0.765	0.705	0.93	0.366	0.339	0.307	1					
V	0.191	-0.651	-0.327	-0.128	0.048	-0.052	0.358	0.884	0.74	0.985	-0.166	0.623	0.844	0.758	0.882	0.933	0.191	0.886	0.411	0.791	-0.084	-0.035	0.893	0.728	-0.362	0.816	0.184	-0.763	0.365	0.851	0.742	0.216	0.857	0.352	0.137	0.062	0.899	0.737	0.48	0.867	0.86	0.726	-0.068	0.658	0.802	1				
W	0.447	0.299	0.577	-0.241	0.203	0.094	-0.381	-0.215	0.126	-0.097	0.084	-0.253	-0.368	-0.344	-0.21	-0.052	0.273	-0.191	0.359	-0.35	0.433	0.223	-0.172	-0.325	0.325	-0.016	0.819	-0.077	-0.058	-0.18	0.017	0.04	-0.199	0.097	0.34	0.338	-0.177	0.168	0.091	-0.28	-0.043	-0.128	0.259	-0.414	0.073	-0.16	1			
Y	0.256	-0.485	-0.297	-0.217	-0.201	-0.211	0.572	0.916	0.437	0.78	-0.226	0.313	0.987	0.973	0.911	0.68	0.416	0.934	0.371	0.965	-0.253	-0.3	0.862	0.938	-0.172	0.768	0.01	-0.484	0.422	0.924	0.472	0.338	0.927	0.081	-0.053	0.165	0.917	0.619	0.4	0.96	0.643	0.684	-0.343	0.922	0.578	0.813	-0.353	1		
Yb	0.385	-0.308	-0.32	-0.15	-0.447	-0.094	0.699	0.779	0.192	0.709	-0.48	0.129	0.933	0.987	0.736	0.528	0.537	0.797	0.391	0.985	-0.421	-0.541	0.697	0.996	-0.062	0.822	0.006	-0.261	0.421	0.774	0.204	0.497	0.793	-0.202	-0.236	0.062	0.768	0.569	0.118	0.838	0.429	0.76	-0.554	0.961	0.326	0.71	-0.345	0.936	1	
Zn	0.107	-0.769	0.21	-0.22	0.267	0.059	0.027	0.677	0.83	0.679	0.453	0.68	0.409	0.32	0.654	0.793	-0.034	0.606	0.336	0.313	0.43	0.229	0.779	0.262	-0.061	0.488	0.311	-0.844	0.229	0.656	0.833	-0.281	0.626	0.586	0.518	-0.084	0.656	0.511	0.443	0.54	0.844	0.453	0.257	0.175	0.834	0.664	0.178	0.439	0.246	1

At the 99.9% level, all values >0.71 or <-0.71 are significant; in the report, only values >0.71 or <-0.71 are discussed.

APPENDIX 3.

BLUE ROSE

Appendix 3.1
Analyses of >6 mm augered samples

Appendix 3.1. BlueRose augered samples >6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05
Sample_no	Field_no	Northing	Easting	Error	Description																							
R447936	BRA1	6389099	427639	6.3	soil and nodular calcrete; 0.7m	0.1	30200	6.5	6		200	0.3	197000	0.2	38	11	19	1.6	18	3.6	1.8	1.25	19400	8	4.6	2	0.68	-0.05
R447937	BRA2	6389001	427641	4	soil and nodular calcrete; 0.7m	-0.1	21500	5	3		800	0.1	235000	0.3	27.5	10	14	1.2	17	3.4	1.7	1.3	13100	5.5	4.4	1	0.64	-0.05
R447938	BRA3	6388898	427633	5.2	soil and nodular calcrete; 0.6m	-0.1	24200	4.5	2		330	-0.1	229000	0.2	31	11	13	1.3	20	2.4	1.25	0.83	15300	6	3	1	0.46	-0.05
R447939	BRA4	6388798	427634	6.2	nodular and massive calcrete; 0.2m	-0.1	17500	3.5	2		230	-0.1	269000	0.1	28	9.5	10	0.9	18	1.75	0.9	0.64	10900	4.4	2.3	-1	0.34	-0.05
R447940	BRA5	6388702	427631	5.8	nodular and massive calcrete; 0.2m	-0.1	15100	4.5	2		220	-0.1	264000	0.2	26	9.5	11	0.8	22	1.7	0.9	0.61	11500	4	2.2	-1	0.32	-0.05
R447941	BRA6	6388601	427627	5.7	nodular calcrete; 0.5m	-0.1	17300	3.5	2		240	-0.1	246000	0.1	25	9	14	0.9	18	1.75	0.9	0.63	10300	4.3	2.1	-1	0.34	-0.05
R447942	BRA7	6388503	427628	5.6	nodular calcrete; 0.6m	-0.1	21900	4.5	3		1050	-0.1	264000	0.2	24.5	9.5	16	1.2	17	2.8	1.4	1.2	12000	5.5	3.5	1	0.52	-0.05
R447943	BRA8	6388404	427625	5.5	soil and nodular calcrete; 0.64m	0.1	28200	6	2		250	0.6	190000	0.2	37	9.5	22	1.4	21	3.3	1.65	1.1	26300	7.5	4.2	2	0.62	-0.05
R447944	BRA9	6388302	427623	5.6	nodular calcrete; 0.65m	0.1	24100	4.5	1		550	0.2	218000	0.2	40.5	9	17	1.3	20	2.7	1.35	1.05	18000	6	3.4	2	0.49	-0.05
R447945	BRA10	6388203	427623	5.5	soil and nodular calcrete; 0.6m	-0.1	15200	2.5	-1		500	-0.1	288000	0.2	20.5	6.5	10	0.8	16	1.95	1	0.74	9250	3.7	2.3	-1	0.38	-0.05
R447946	BRA11	6388094	427615	4.4	soil and nodular calcrete; 0.65m	-0.1	28800	3.5	-1		340	0.1	161000	0.2	43.5	9	18	1.4	20	2.4	1.2	0.9	20400	7.5	3.1	2	0.44	-0.05
R447947	BRA12	6388003	427618	4.7	soil and nodular calcrete; 0.63m	-0.1	35400	5	-1		340	0.3	134000	0.1	41.5	8	21	2	28	3.7	1.7	1.35	22300	8.5	5	2	0.65	-0.05
R447948	BRA13	6387902	427616	4.6	orbn calcareous soil, becoming more calcareous with depth; 0.62m	0.2	59100	6	-1	-1	280	0.3	57300	0.1	58	12	35	3.6	41	3.5	1.7	1.25	32900	14.5	4.5	3	0.63	0.05
R447949	BRA14	6387804	427613	3.7	orbn calcareous soil	0.2	65900	6	-1		280	0.3	36300	0.1	71	12.5	43	3.9	64	4.1	1.95	1.45	38300	16.5	5.5	3	0.71	0.05
R447950	BRA15	6387705	427611	3.7	orbn soil; nodular calcrete at depth; 0.65m	0.1	44300	7	-1		300	0.2	131000	0.1	47	9.5	29	2.6	53	3.3	1.55	1.15	33900	11	4.3	2	0.59	-0.05
R447951	BRA16	6387605	427610	4.5	soil and nodular calcrete; 0.65m	-0.1	21900	9	4		1250	0.2	194000	0.2	32	8	18	1.2	100	3.8	1.7	1.55	22500	6	5	1	0.66	-0.05
R447952	BRA17	6387598	428810	3.7	nodular calcrete; 0.41m	-0.1	25000	5.5	1		195	0.1	246000	0.2	29	8	16	1.5	27	3.2	1.55	1.1	17800	6	4.2	1	0.58	-0.05
R447953	BRA18	6387696	428801	3.7	nodular calcrete; 0.42m	-0.1	19200	3	1		165	-0.1	264000	0.2	22.5	6.5	11	1.2	27	1.95	0.95	0.66	11600	4.7	2.5	1	0.34	-0.05
R447954	BRA19	6387797	428804	4.2	nodular calcrete; 0.63m	-0.1	17600	3	2		220	-0.1	301000	0.1	19.5	6.5	9	1.1	23	2.4	1.1	0.84	9750	4.3	3	-1	0.41	-0.05
R447955	BRA20	6387879	428815	4.2	nodular calcrete; 0.49m	0.2	19600	4	1		190	-0.1	275000	0.2	23	8.5	14	1.2	27	3.1	1.45	0.98	12500	4.9	3.8	1	0.55	-0.05
R447956	BRA21	6387930	428823	4.3	nodular calcrete; 0.5m	-0.1	18700	4.5	1		360	-0.1	277000	0.2	19.5	7.5	13	1.2	25	2.1	1.05	0.75	12200	4.6	2.6	1	0.39	-0.05
R447957	BRA22	6387981	428822	3.6	nodular calcrete; 0.43m	-0.1	21200	6	2	2	250	0.2	243000	0.2	23.5	8	16	1.3	24	2.4	1.2	0.83	21800	6	3.1	1	0.43	-0.05
R447958	BRA23	6388031	428821	4.3	nodular calcrete; 0.4m	-0.1	24600	9.5	-1		290	0.1	191000	0.1	29	8.5	22	1.4	26	2.8	1.35	0.98	30600	7	3.6	2	0.51	-0.05
R447959	BRA24	6388074	428818	3.6	nodular calcrete; 0.6m	-0.1	24300	6	1		180	-0.1	261000	0.2	21	6.5	14	1.5	24	3.1	1.5	0.99	15300	6	3.8	1	0.55	-0.05
R447960	BRA25	6388131	428825	4.3	nodular calcrete; 0.6m	-0.1	26600	8.5	1		280	0.1	224000	0.2	29	8.5	23	1.5	27	3.1	1.5	1.05	30300	7	3.9	2	0.55	-0.05
R447961	BRA26	6388187	428825	4.3	nodular calcrete; 0.66m	0.5	26400	11	-1		195	2.2	231000	0.2	31.5	7.5	15	1.6	26	2.6	1.25	0.93	17600	6.5	3.5	1	0.47	-0.05
R447962	BRA27	6388230	428822	4	nodular calcrete; 0.6m	0.1	30600	7	-1		380	0.6	184000	0.2	31.5	7.5	16	2	27	2.6	1.3	0.94	20300	7.5	3.2	2	0.47	-0.05
R447963	BRA28	6388277	428821	4.8	nodular calcrete; 0.57m	-0.1	26800	5	-1		430	0.3	224000	0.2	28.5	7	15	1.7	25	3.3	1.55	1.1	15700	6.5	4.1	2	0.59	-0.05
R447964	BRA29	6388330	428819	7.1	nodular calcrete; 0.6m	-0.1	21600	5	-1		180	0.2	275000	0.2	26	6	13	1.3	22	2.8	1.3	0.92	13300	5.5	3.6	1	0.5	-0.05
R447965	BRA30	6388378	428827	4.7	nodular calcrete; 0.61m	-0.1	25500	5.5	1		370	-0.1	250000	0.3	26.5	7.5	14	1.6	26	3	1.4	1.05	15000	6	3.8	1	0.54	-0.05
R447966	BRA31	6388482	428833	6.1	nodular calcrete; 0.6m	0.2	29900	8.5	2		260	0.3	185000	0.2	36	8.5	19	1.9	26	2.7	1.3	0.9	21600	7.5	3.3	2	0.47	-0.05
R447967	BRA32	6388577	428833	4	nodular calcrete; 0.64m	0.1	38400	6	3		380	0.2	158000	0.2	46.5	9.5	19	2.5	29	3	1.45	1.05	24100	9.5	3.9	2	0.54	-0.05
R447968	BRA33	6388675	428831	3.8	nodular calcrete; 0.25m	-0.1	18600	7.5	2		470	-0.1	238000	0.2	34.5	14	14	1.2	43	2.1	1	0.78	22200	4.8	2.7	1	0.38	-0.05
R447969	BRA34	6388777	428836	3.9	nodular calcrete; 0.4m	-0.1	32000	5.5	2		240	0.1	181000	0.2	39	9	19	2.1	28	2.6	1.25	0.92	22200	8	3.3	2	0.46	-0.05
R447970	BRA35	6388877	428838	4.1	nodular calcrete; 0.65m	-0.1	26600	7	2		210	0.2	197000	0.2	31.5	9	15	1.6	26	3.1	1.45	1.05	23200	6.5	3.9	2	0.56	-0.05
R447971	BRA36	6388965	428838	5.5	nodular calcrete; 0.55m	-0.1	26500	8.5	2		250	0.2	171000	0.2	33	12.5	17	1.4	30	2.7	1.25	0.92	32600	6.5	3.5	2	0.46	-0.05
R447972	BRA37	6389090	428247	4.6	nodular calcrete; 0.53m	-0.1	21200	4	8		185	-0.1	242000	0.2	26.5	6.5	11	1.4	23	2.2	1.05	0.76	14100	5	2.9	1	0.4	-0.05
R447973	BRA38	6388991	428245	2.9	nodular calcrete; 0.65m; close to N edge of bluebush	-0.1	23200	6	4		700	-0.1	255000	0.2	29	8.5	15	1.5	26	2.6	1.2	1	16600	6	3.3	1	0.47	-0.05
R447974	BRA39	6388889	428242	3.8	nodular calcrete; 0.67m	0.1	20500	15	5		1000	0.8	252000	0.2	28.5	9	18	1.3	30	2.3	1.05	1	23000	5.5	3.1	1	0.4	-0.05
R447975	BRA40	6388791	428236	3.8	nodular calcrete, above massive calcrete; 0.2m; close to S boundary of bluebush	-0.1	25300	7	3		250	0.2	216000	0.1	32.5	9.5	18	1.5	26	2.5	1.25	0.83	24300	6.5	3.1	2	0.44	-0.05
R447976	BRA41	6388690	428234	3.8	nodular calcrete; 0.65m	-0.1	24300	8	3		650	0.1	234000	0.2	31.5	9	14	1.5	26	3.1	1.45	1.1	18100	6	4	2	0.55	-0.05
R447977	BRA42	6388589	428236	3.2	nodular calcrete; 0.61m	-0.1	24500	6	3		155	-0.1	266000	0.2	23	6.5	13	1.5	24	3.6	1.7	1.15	14200	6	4.5	1	0.65	-0.05
R447978	BRA43	6388489	428232	3.6	nodular calcrete; 0.65m	-0.1	30300	5.5	2		420	-0.1	220000	0.2	30	8	23	2	25	3.9	1.85	1.35	19700	7.5	5	2	0.7	-0.05
R447979	BRA44	6388450	428235	3.4	nodular calcrete; 0.65m	-0.1	33100	5.5	2		280	0.1	164000	0.2	38.5	8.5	18	2	27	3.1	1.45	1.05	23900	8.5	4	2	0.56	-0.05
R447980	BRA45	6388387	428229	3.6	nodular calcrete; 0.65m	-0.1	17700	5.5	2	2	1150	-0.1	275000	0.2	25	7.5	11	1.2	23	2.7	1.3	1.15	10700	4.5	3.5	1	0.49	-0.05
R447981	BRA46	6388301	428229	2.9	nodular calcrete; 0.6m	-0.1	18700	5.5	2		390	-0.1	259000	0.1	24	8	11	1.2	24	2.3	1.1	0.83	13400	4.6	2.8	1	0.42	-0.05
R447982	BRA47	6388243	428228	4.3	nodular calcrete; 0.6m	0.5	23300	6	3		470	-0.1	225000	0.1	27.5	8	14	1.4	25	2.2	1	0.77	16000	5.5	2.6	1	0.37	-0.05
R447983	BRA48	6388201	428230	4.6	nodular calcrete; 0.65m	0.1	23500	9	2		210	-0.1	182000	0.1	28.5	9	18	1.2	27	2.2	1.05	0.77	21200	6.5	2.8	1	0.39	-0.05
R447984	BRA49	6388139	428227	4.5	nodular to massive calcrete; 0.21m	-0.1	19600	5	1		185	-0.1	243000	0.1	27.5	10	13	1.2	25	2	0.95	0.7	14500	4.8	2.5	1	0.35	-0.05
R447985	BRA50	6388101	428223	4.4	nodular to massive calcrete; 0.55m	-0.1	23100	8	2		195	0.2	233000	0.2	32.5	10.5	19	1.4	32	2.5	1.15	0.85	28400	6.5	3.2	2	0.43	-0.05
R447986	BRA51	6387994	428215	7.2	nodular to massive calcrete; 0.43m	-0.1	21600	4.5	2		190	-0.1	253000	0.2	28	10.5	12	1.3	29	2.5	1.2	0.85	15000	5.5	3.2	1	0.45	-0.05
R447987	BRA52	6389097	430597	3.5	nodular at depth; 0.65m	-0.1	27000	7	2		180	0.2	175000	0.1	32.5	9.5	15	1.8	26	2.3	1.1	0.83	20900	7	3	2	0.42	-0.05
R447988	BRA53	6388998	430595	3.6	nodular at depth; 0.6m	-0.1	36500	7.5	1		220	0.2	126000	0.2	41	10	21	2.5	27	2.7	1.25	0.97	23700	9.5	3.6	2	0.47	-0.05
R447989	BRA54	6388901	430596	4.8	soil; nonodules; 0.55m	0.1	46300	13.5	2		260	0.3	14000	-0.1	56	11	37	3.3	30	2.9	1.35	1.1	36400	12.5	3.8	3	0.5	-0.05
R447990	BRA55	6388799	430595	4.9	nodular calcrete; 0.62m	0.2	23200	4.5	3		200	0.2	241000	0.2	34	7	16	1.6	19	2.4	1.25	0.87	16400	6	3.4	2	0.46	-0.05
R447991	BRA56	6388700	430595	5	nodular calcrete; 0.44m	0.2	22100	6	4		230	0.3	245000	0.2	37	9	17	1.4	20	2.3	1.15	0.85	20000	5.5	3.3	2	0.43	-0.05
R447992	BRA57	6388601	430598	4.7	nodular calcrete; 0.65m	-0.1	24000	5.5	2		175	0.2	260000	0.2	34	6.5	15	1.6	17	2.5	1.25	0.89	17200	6	3.4	2	0.48	-0.05
R447993	BRA58	6388499	430602	4.3	nodular calcrete; 0.47m	-0.1	29100	5	2		500	0.3	205000	0.1	44	8	18	1.9	19	2.4	1.25	0.96	21600	7	3.4	2	0.45	-0.05
R447994	BRA59	6388402	430600	4.3	nodular calcrete; 0.41m	-0.1	21300	4.5	3		185	0.2	258000	0.2	36	7.5	15	1.4	17	2.9	1.45	1	16200	5.5	4	1	0.54	-0.05
R447995	BRA60	6388301	430601	4.2	nodular calcrete; 0.6m	-0.1	34500	5	2		195	0.3	179000	0.2	48.5	9	21	2.2	21	2.8	1.4	1	26100	8.5	3.8	2	0.52	-0.05
R447996	BRA61	6388199	430597	4.1	nodular calcrete; 0.4m	0.1	28400	7	5		190	0.5	206000	0.2	72	7.5	27	1.8	19	3.5	1.6	1.35	23300	7	5.5	2	0.63	-0.05
R447997	BRA62	6388100	430600	4.2	nodular calcrete; 0.4m	0.1	35200	6.5	6		210	0.4	153000	0.2	52	9	25	2.3	20	2.9	1.4	1.05	29200	9	3.9	2	0.54	-0.05
R447998	BRA63	6387997	430601	3.9	nodular calcrete; 0.63m; close to edge of small creek	-0.1	27900	7	2		230	0.8	131000	0.2	64	9.5	22	1.8	26	2.6	1.25	0.99	31300	7.5	3.9	2	0.47	-0.05
R447999	BRA64	6387897	430603	4	nodular calcrete; 0.68m	-0.1	29600	10.5	4	3	230	0.6	151000	0.2	62	10.5	21	1.9	23	2.6	1.25	1.05	30800	8	3.9	2	0.46	-0.05
R448000	BRA65	6387800	430601	3.8	nodular calcrete; 0.49m; abundant qz and some qz-mica schist and ferrug.siltstone lag	-0.1	26000	6.5	2		185	0.4	137000	0.1	43.5	9	18	1.6	19	3.2	1.4	1.45	25900	7	5.5	2	0.54	-0.05
R448001	BRA66	6388198	430005	3.7	soil; few nodules; 0.66m	-0.1	40800	6.5	2		210	0.5	56900	0.1	59	9.5	29	2.8	28	2.6	1.3	0.95	33800	10.5	3.5	3	0.48	-0.05

Appendix 3.1. BlueRose augered samples >6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05
R448002	BRA67	6388099	429995	3.7	nodular calcrete; 0.66m	-0.1	25800	7	2		260	0.5	180000	0.2	70	8	19	1.7	22	2.8	1.3	1.15	24200	6.5	4.4	2	0.49	-0.05
R448003	BRA68	6388004	429997	3.9	soil with some nodules; 0.65m; in old calcreted drainage, on margin of current drainage	-0.1	28600	5.5	2		220	0.4	155000	0.2	42.5	8	20	1.8	19	2.7	1.35	0.99	25200	7.5	3.8	2	0.52	-0.05
R448004	BRA69	6388301	430000	3.5	nodular calcrete; 0.33m	-0.1	29400	10.5	3		230	0.8	193000	0.2	43.5	9.5	21	2	22	3.2	1.6	1.1	28000	7.5	4.3	2	0.6	-0.05
R448005	BRA70	6388401	430001	3.9	nodular calcrete; 0.45m	0.1	33800	6.5	3		250	0.3	194000	0.2	50	10	20	2.3	22	2.7	1.4	0.98	24100	9	3.7	2	0.51	-0.05
R448006	BRA71	6388502	430001	4.2	nodular calcrete; 0.65m	-0.1	27200	5	8		750	0.2	219000	0.2	35.5	6	17	1.7	16	3.5	1.7	1.25	17900	6.5	4.5	1	0.63	-0.05
R448007	BRA72	6388600	429999	4.1	nodular calcrete; 0.67m; relatively common qz lag	-0.1	31200	6	2		190	0.5	46300	0.1	63	8.5	26	2	23	2.1	1	0.91	38400	8.5	3.3	2	0.38	-0.05
R448008	BRA73	6388702	430000	3.9	nodular calcrete and qz fragments; 0.3m; relatively common qz and siltstone/sst lag	-0.1	21400	26	8		180	1.1	201000	0.3	81	10.5	19	1.4	37	2.6	1.1	1.1	32800	5.5	4.6	2	0.43	-0.05
R448009	BRA74	6388804	430002	3.5	nodular calcrete; 0.67m; relatively common qz and siltstone/sst lag	-0.1	24100	7	3	1	185	1.3	126000	0.1	57	9	20	1.4	22	2.3	1.1	0.98	23300	6	3.6	2	0.41	-0.05
R448010	BRA75	6388900	430002	3.5	soil and nodular calcrete; 0.7m	-0.1	34400	5.5	2		210	0.4	97200	0.1	59	8	22	2.2	19	3.1	1.45	1.15	28400	9	4.4	3	0.56	-0.05
R448011	BRA76	6389004	429997	3.5	soil and minor nodular calcrete; 0.65m	-0.1	30000	6	3		330	0.4	197000	0.2	41	7.5	19	1.9	19	2.9	1.5	1.05	23600	8	3.9	2	0.55	-0.05
R448012	BRA77	6389104	429997	3.5	nodular calcrete and ?bedrock; 0.3m	-0.1	23800	9.5	3		190	0.5	187000	0.2	40	10.5	19	1.3	31	2.4	1.2	0.85	24800	6.5	3.3	2	0.44	-0.05
R448013	BRA78	6389097	429395	4.1	nodular calcrete; 0.64m	-0.1	20700	5.5	2		175	0.5	107000	-0.1	34.5	5.5	14	1.4	15	1.75	0.85	0.63	18400	5.5	2.4	1	0.32	-0.05
R448014	BRA79	6388999	429402	4	nodular calcrete; 0.65m; quartzlag	-0.1	22600	5.5	2		340	0.5	170000	0.2	49.5	7	16	1.4	16	2.4	1.15	0.96	19300	6	3.5	2	0.45	-0.05
R448015	BRA80	6388897	429399	4.7	nodular calcrete; 0.65m	-0.1	23800	5	2		390	0.2	205000	0.3	42	6.5	17	1.5	17	3.2	1.5	1.15	22300	6.5	4.4	2	0.59	-0.05
R448016	BRA81	6388799	429428	4	nodular calcrete; 0.65m	-0.1	30300	10.5	2		230	0.7	147000	0.2	56	10	22	2.1	22	2.4	1.2	0.93	25400	8	3.6	2	0.45	-0.05
R448017	BRA82	6388696	429427	3.9	soil and nodular calcrete; 0.65m	0.1	42300	7	3		300	0.3	96700	0.1	61	9	26	3.1	24	2.7	1.4	1	27000	11	3.7	3	0.51	-0.05
R448018	BRA83	6388600	429421	3.9	nodular calcrete; 0.65m	-0.1	24800	4.5	3		210	0.2	200000	0.2	42	7	16	1.6	20	2.4	1.2	0.82	16800	6.5	3.2	2	0.44	-0.05
R448019	BRA84	6388495	429422	4	nodular calcrete; 0.52m	-0.1	24300	3	2		310	0.1	214000	0.2	35	7	14	1.7	19	3	1.55	0.99	14500	6	3.9	2	0.58	-0.05
R448020	BRA85	6388418	429428	4.5	nodular calcrete; 0.68m; calcite veining and bedrock(?siltstone); on edge of major creek	-0.1	23200	9	2		220	1.1	193000	0.2	38	10	21	1.4	34	2.5	1.25	0.92	25100	6	3.5	2	0.46	-0.05
R448021	BRA86	6388264	429420	3.7	nodular calcrete; 0.65m; on edge of creek	-0.1	22300	8.5	1		280	0.5	187000	0.2	39.5	8	20	1.4	24	2.5	1.25	0.92	28400	6.5	3.4	2	0.46	-0.05
R448022	BRA87	6388214	429419	3.7	nodular calcrete; 0.65m	-0.1	29300	6	5		200	0.3	116000	0.1	44.5	7	22	1.8	17	2.3	1.15	0.84	25900	7.5	3.2	2	0.44	-0.05
R448023	BRA88	6388161	429417	3.2	nodular calcrete; 0.59m	0.1	27100	7	2		220	0.3	154000	0.2	48	8	19	1.9	20	2.6	1.3	0.92	25200	7	3.7	2	0.48	-0.05
R448024	BRA89	6388108	429418	3.2	nodular calcrete; 0.5m	-0.1	19400	3.5	4		165	0.1	253000	0.1	31.5	6.5	11	1.6	17	1.95	1	0.64	14500	4.9	2.4	1	0.37	-0.05
R448025	BRA90	6388059	429418	3.2	nodular calcrete; 0.3m; ?underlain by massive calcrete	-0.1	18200	4.5	4		155	-0.1	263000	0.2	50	7	11	1.3	16	2.6	1.2	0.94	12800	4.8	3.8	1	0.47	-0.05
R448026	BRA91	6387961	429412	3.8	nodular calcrete; 0.66m; close to edge of creek	-0.1	18200	5	3		160	0.2	265000	0.3	25.5	6.5	19	1.4	14	2.8	1.5	0.87	12100	4.8	3.3	-1	0.55	-0.05
R448027	BRA92	6387862	429410	4	nodular calcrete; 0.41m	-0.1	22700	4	3		220	0.1	236000	0.2	32	7	18	1.5	17	2.5	1.35	0.86	17200	6	3.3	1	0.5	-0.05
R448028	BRA93	6387763	429407	4.5	nodular calcrete; 0.64m	-0.1	21500	4.5	3		350	0.1	233000	0.2	32	5.5	18	1.4	16	2.6	1.25	0.88	16400	5.5	3.3	1	0.49	-0.05
R448029	BRA94	6387663	429406	4.6	nodular calcrete; 0.48m	-0.1	19800	2.5	3		180	0.1	251000	0.2	31.5	6.5	14	1.3	17	2.2	1.1	0.77	12900	5	2.9	1	0.42	-0.05
R448030	BRA95	6387564	429404	4.7	nodular calcrete; 0.65m; pegmatite lag close to pegmatite subcrop	0.2	41600	2	3		140	-0.1	167000	0.2	41.5	7	11	1.3	20	2	1.1	0.59	9750	9.5	2.5	2	0.38	-0.05
R448031	BRA96	6387596	430000	5.1	nodular calcrete; 0.65m; felsic(?) lag	-0.1	18700	2	2		140	-0.1	47800	0.1	31.5	6.5	13	1	23	2.2	1.15	0.59	13200	4.8	2.5	-1	0.42	-0.05
R448032	BRA97	6387700	430001	4.2	soil and nodular calcrete; 0.65m	0.1	35600	4.5	2		230	0.3	96300	0.1	36	10.5	18	1.7	23	1.1	0.5	0.38	22300	8	1.35	-1	0.19	-0.05
R448033	BRA98	6387799	430001	4.4	nodular calcrete(?from palaeodrainage); 0.4m; quartzlag; edge of major drainage	0.1	17900	5.5	2	1	420	0.3	208000	0.3	23	9	14	1.1	17	2.4	1.15	0.86	19800	4.5	2.9	-1	0.42	-0.05
R448034	BRA99	6387596	430602	3.5	soil with some nodules; 0.65m	0.2	39200	6.5	2		250	0.3	61700	0.1	77	32.5	24	2	44	6.5	2.8	2.2	31800	10.5	8.5	2	1.1	-0.05
R448035	BRA100	6388157	428917	3.6	nodular calcrete; 0.61m; close to BRRC18	0.1	23500	6	3		500	0.2	232000	0.2	25.5	9.5	18	1.4	18	2.8	1.4	1.1	19700	6	3.5	1	0.5	-0.05
R448036	BRA101	6387887	428217	3.4	nodular calcrete; 0.62m; minor qz lag	0.1	19100	3	2		340	-0.1	247000	0.2	23.5	8	15	1.2	16	3.5	1.6	1.25	12500	4.7	4.6	-1	0.61	-0.05
R448037	BRA102	6387787	428213	3.5	nodular calcrete; 0.65m	0.1	27800	3.5	2		300	-0.1	210000	0.2	30	8.5	23	1.6	19	3	1.45	1.05	17200	6.5	3.7	1	0.54	-0.05
R448038	BRA103	6387689	428211	3.5	nodular calcrete; 0.66m	0.2	34900	3.5	2		195	0.1	175000	0.2	37	10	24	2	25	3.8	1.85	1.3	22700	8.5	4.8	2	0.68	-0.05
R448039	BRA104	6387588	428206	3.9	nodular calcrete; 0.66m	0.1	28200	3	2		650	-0.1	209000	0.2	31.5	9.5	18	1.6	23	3.1	1.55	1.25	17400	6.5	4	1	0.56	-0.05

Appendix 3.1. BlueRose augered samples >6mm

	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																
R447936	7950	31.5	0.25	14600	240	0.3	2300	-5	29	13	260	10	7	33.5	350	-0.5	-0.5	6	1.5	400	0.52	-0.2	7	2450	0.2	0.3	0.97	51	1.3	23.5	1.8	33
R447937	5900	26.5	0.24	28100	180	0.3	2050	-5	26	10	200	-5	6	26.5	600	-0.5	-0.5	6	1.2	650	0.49	-0.2	5	1650	0.2	0.25	1.3	43	0.9	21.5	1.65	20
R447938	7050	21	0.2	10400	210	0.3	2150	-5	18	13	270	-5	4.4	28.5	450	-0.5	0.5	3.9	1.3	450	0.34	-0.2	5	1900	0.2	0.2	0.72	42	0.9	15.5	1.3	25
R447939	5100	17	0.14	10200	145	0.2	1700	-5	14.5	6	250	-5	3.6	20	450	-0.5	-0.5	3.1	1	550	0.26	-0.2	4.7	1550	0.2	0.15	0.8	31	0.7	11	0.95	19
R447940	4850	16	0.14	15900	160	0.2	1850	-5	14	7	340	-5	3.5	18	500	-0.5	1	2.9	1	600	0.24	-0.2	4.4	1400	0.2	0.15	0.73	29	0.7	10.5	0.95	17
R447941	5000	16	0.14	12100	155	0.1	1700	-5	14	7	190	-5	3.4	20	400	-0.5	1	2.9	1	550	0.25	-0.2	4.1	1350	0.2	0.15	0.79	32	0.6	11	0.95	18
R447942	5650	23.5	0.21	13800	155	0.2	1900	-5	20	6	220	-5	4.9	24.5	700	-0.5	1	4.7	1.2	500	0.38	-0.2	4.5	1450	0.2	0.2	0.84	40	0.9	18.5	1.4	20
R447943	8200	29	0.24	10900	280	0.5	2200	-5	25.5	12	320	10	6	30	350	-0.5	1	5.5	1.6	280	0.48	-0.2	7.5	2200	0.5	0.25	0.87	55	1.2	20.5	1.65	29
R447944	7550	27.5	0.2	9500	220	0.4	2300	-5	23	10	270	5	5.5	27.5	550	-0.5	1	4.8	1.4	370	0.37	-0.2	10	2000	0.3	0.2	0.9	44	1	16	1.35	26
R447945	4400	15.5	0.15	9300	125	0.3	1450	-5	13.5	7	230	-5	3.3	16	800	-0.5	1	3.2	1	500	0.27	-0.2	4.5	1100	0.1	0.15	0.8	26	0.7	12.5	1	15
R447946	9350	26.5	0.19	10400	280	0.3	4450	-5	21.5	12	320	-5	5.5	34.5	550	-0.5	0.5	4.4	1.5	310	0.35	-0.2	8	2700	0.3	0.2	1.05	48	0.8	14	1.25	32
R447947	10700	38.5	0.25	9600	290	0.5	3600	-5	34	12	300	5	8.5	42.5	500	-0.5	-0.5	7	2	200	0.59	-0.2	7.5	2650	0.6	0.25	1.2	51	0.8	20.5	1.65	35
R447948	17200	34.5	0.27	12800	460	0.6	3850	5	30.5	22	320	10	8	72	300	-0.5	-0.5	6	2.9	135	0.56	-0.2	10.5	3800	0.6	0.3	1.3	71	1.1	18.5	1.85	55
R447949	18200	42	0.3	13500	550	0.6	5400	10	38	25	420	10	10	76	350	-0.5	-0.5	7.5	3.2	135	0.66	-0.2	12.5	4350	0.6	0.35	1.5	77	1.1	20	2.1	66
R447950	12400	32.5	0.25	9250	380	0.5	4900	-5	29	18	360	10	7.5	53	450	-0.5	-0.5	6	2.3	160	0.53	-0.2	10	3200	0.4	0.25	1.15	86	0.9	17.5	1.65	46
R447951	6250	35.5	0.24	8600	400	0.6	2700	-5	32	12	290	10	8	26.5	750	-0.5	-0.5	7	1.3	300	0.6	-0.2	6	1950	0.6	0.25	1.05	64	0.8	21.5	1.7	26
R447952	7000	27	0.23	8150	195	0.3	1750	-5	25.5	10	230	5	6	29.5	300	-0.5	-0.5	5	2.1	310	0.5	-0.2	5.5	1900	0.3	0.25	0.85	45	0.7	19.5	1.55	26
R447953	5500	17	0.15	18200	135	0.2	1700	-5	16.5	8	210	5	4	23	250	-0.5	-0.5	3.3	1.1	370	0.31	-0.2	4	1400	0.2	0.15	0.87	31	0.6	11.5	1	20
R447954	4550	19.5	0.16	11200	110	0.1	1250	-5	19.5	7	185	5	4.8	21	300	-0.5	-0.5	4.1	1.1	440	0.37	-0.2	3.7	1100	0.1	0.15	0.77	28	0.6	13	1.1	21
R447955	5000	23.5	0.21	14700	160	0.7	1350	-5	22.5	9	240	5	5.5	22.5	350	-0.5	-0.5	4.6	1.3	400	0.46	-0.2	4	1300	0.2	0.25	0.95	37	0.8	18.5	1.45	21
R447956	5000	16.5	0.17	9600	145	0.3	1600	-5	16	9	195	-5	3.9	22.5	350	-0.5	-0.5	3.4	1.3	410	0.32	-0.2	4	1400	0.2	0.15	0.71	38	0.7	12.5	1.05	20
R447957	5700	19	0.17	10700	170	0.5	1800	-5	19	8	230	5	4.6	25.5	250	-0.5	-0.5	3.9	1.4	330	0.38	-0.2	5	1850	0.2	0.2	0.77	57	0.7	14	1.2	25
R447958	6100	25	0.19	6600	260	0.6	1850	-5	22.5	11	260	10	5.5	28.5	250	-0.5	-0.5	4.6	1.5	210	0.45	-0.2	7	2050	0.2	0.2	0.75	63	0.7	17	1.35	27
R447959	5250	23.5	0.22	10100	140	0.3	1450	-5	22	9	240	5	5.5	26.5	250	-0.5	-0.5	4.6	1.4	290	0.47	-0.2	4.7	1700	0.2	0.25	0.74	45	0.7	20	1.45	24
R447960	6600	26.5	0.21	7650	210	0.4	1550	-5	24	10	270	5	6	30	250	-0.5	-0.5	4.9	1.5	240	0.47	-0.2	6.5	1850	0.2	0.25	0.82	69	0.7	19	1.5	29
R447961	6400	24.5	0.19	11200	180	2.4	1900	-5	23.5	12	280	-5	6	29.5	300	-0.5	-0.5	4.7	1.7	290	0.42	-0.2	6	2000	0.2	0.2	0.93	48	0.8	14.5	1.25	28
R447962	7950	24	0.21	9900	220	0.9	2200	-5	21.5	13	300	5	5.5	36	400	-0.5	-0.5	4.3	1.8	230	0.41	-0.2	6	2300	0.2	0.2	0.85	53	0.8	15	1.35	34
R447963	6650	27	0.22	20800	195	0.5	1900	-5	25.5	8	260	-5	6	30.5	350	-0.5	-0.5	5.5	1.4	320	0.5	-0.2	5.5	2000	0.2	0.25	1.05	44	0.7	19	1.55	28
R447964	4850	25.5	0.2	18300	135	0.4	1200	-5	23	5	240	-5	5.5	23.5	200	-0.5	-0.5	4.7	1.2	310	0.44	-0.2	6	1400	0.2	0.2	0.96	42	0.7	16	1.3	22
R447965	6450	26	0.21	14200	170	0.4	1750	-5	23.5	10	270	10	6	28.5	400	-0.5	-0.5	4.8	1.4	320	0.46	-0.2	5	1700	0.2	0.25	1.05	45	0.7	17.5	1.45	26
R447966	8400	25	0.2	23200	270	0.7	2550	-5	22	11	260	-5	5.5	36.5	300	-0.5	-0.5	4.5	1.6	320	0.42	-0.2	7	2600	0.2	0.2	1.15	54	1.5	14.5	1.35	34
R447967	10600	31	0.23	10800	310	0.5	2850	-5	26	13	370	5	6.5	45.5	300	-0.5	-0.5	5.5	1.9	180	0.48	-0.2	8.5	2950	0.3	0.25	1	55	1.2	16.5	1.6	43
R447968	5450	20	0.17	7500	650	0.4	1400	-5	17.5	14	340	5	4.4	24	350	-0.5	-0.5	3.7	1.3	330	0.34	-0.2	5.5	1500	0.2	0.15	1.2	48	1.2	12	1.05	29
R447969	9150	25.5	0.19	8250	280	0.3	2700	-5	23	13	310	10	6	39.5	250	-0.5	-0.5	4.7	1.6	190	0.41	-0.2	7.5	2700	0.2	0.2	0.82	47	0.9	13.5	1.35	37
R447970	7250	28.5	0.21	11400	240	0.4	2250	-5	25	14	290	-5	6	32.5	400	-0.5	-0.5	5	1.6	230	0.47	-0.2	6	2000	0.2	0.25	0.99	50	0.9	18	1.5	30
R447971	7900	25	0.19	18000	270	0.4	3400	-5	22.5	16	270	5	6	35.5	350	-0.5	-0.5	4.7	1.7	260	0.42	-0.2	6	2050	0.2	0.2	1.05	66	0.9	14	1.3	29
R447972	5700	20.5	0.16	16600	150	0.3	1600	-5	19	7	230	-5	4.8	25.6	300	-0.5	-0.5	3.9	1.3	420	0.35	-0.2	4.8	1600	0.2	0.15	0.91	38	0.7	12	1.05	22
R447973	6200	23	0.19	11500	175	0.2	1800	-5	20.5	9	260	10	5	27	500	-0.5	-0.5	4.5	1.3	480	0.41	-0.2	5.5	1850	0.2	0.2	0.87	48	0.7	15	1.25	25
R447974	5300	22	0.17	11100	210	1.4	2500	-5	20	10	230	-5	5	23	550	-0.5	-0.5	4.4	1.3	500	0.37	-0.2	7	1400	0.2	0.15	1.05	60	1.9	12.5	1.05	22
R447975	7400	22.5	0.2	8350	270	0.6	2500	-5	20.5	12	300	10	5	31	350	-0.5	-0.5	4.1	1.5	350	0.38	-0.2	7	2350	0.3	0.2	0.81	53	1.2	14.5	1.3	31
R447976	6100	27.5	0.21	10000	210	0.5	2050	-5	25	11	300	-5	6	27	500	-0.5	-0.5	5.5	1.4	390	0.47	-0.2	6	2050	0.2	0.25	0.97	52	1.1	17.5	1.5	27
R447977	5600	28	0.23	8550	165	1	1450	-5	27.5	8	240	-5	6.5	26.5	300	-0.5	-0.5	5.5	1.5	270	0.54	-0.2	4.5	1750	0.2	0.25	0.7	43	1	21	1.6	25
R447978	7550	33	0.27	9450	210	2.7	1850	-5	31	10	240	5	7.5	34.5	350	-0.5	-0.5	6.5	1.7	270	0.61	-0.2	6	2300	0.2	0.3	0.8	49	1	23	1.75	31
R447979	9000	29	0.22	20000	290	0.6	2850	-5	26	14	260	10	6.5	39	300	-0.5	-0.5	5.5	1.8	260	0.49	-0.2	7.5	2700	0.3	0.25	0.95	53	1	17	1.55	37
R447980	4450	23.5	0.2	20100	180	0.5	1650	-5	21	8	260	-5	5	21.5	650	-0.5	-0.5	4.8	1.1	500	0.42	-0.2	3.9	1250	0.1	0.2	0.85	37	0.8	16.5	1.35	19
R447981	5250	19	0.16	12600	165	0.3	1600	-5	18	7	250	-5	4.5	22.5	550	-0.5	-0.5	3.8	1.2	470	0.36	-0.2	4.4	1700	0.2	0.15	0.86	36	0.8	13	1.15	20
R447982	6450	19	0.15	14900	175	0.5	2300	-5	17	8	250	-5	4.3	27.5	500	-0.5	-0.5	3.6	1.4	500	0.33	-0.2	5	2000	0.2	0.15	0.86	42	0.7	11.5	1.05	25
R447983	6600	20.5	0.17	7250	250	0.7	2650	-5	18.5	13	230	5	4.6	29	300	-0.5	-0.5	3.8	1.5	260	0.35	-0.2	5.5	1750	0.2	0.15	0.74	54	0.8	12.5	1.1	25
R447984	5600	18.5	0.15	8050	200	0.3	1800	-5	17	10	280	-5	4.3	24	400	-0.5	-0.5	3.5	1.2	400	0.32	-0.2	4.7	1800	0.2	0.15	0.61	33	0.7	11	1.05	21
R447985	6200	23.5	0.18	7600	240	0.6	2000	-5	20.5	14	290	10	5	27.5	300	-0.5	-0.5	4.2	1.4	330	0.38	-0.2	6.5	2050	0.2	0.2	0.78	57	0.8	13.5	1.2	29
R447986	6200	21	0.19	10800	210	0.2	1800	-5	20	8	260	5	4.9	26.5	350	-0.5	-0.5	4.1	1.3	410	0.39	-0.2	4.7	1700	0.2	0.2	0.72	39	0.7	14	1.25	25
R447987	7400	23.5	0.19	7550	260	0.4	2150	-5	20.5	15	230	5	5	35.5	200	-0.5	-0.5	4.2	1.7	220	0.37	-0.2	6	2050	0.2	0.2	0.79	50	0.8	12.5	1.2	34
R447988	10000	27	0.21	9650	330	0.6	2950	-5	24	17	280	20	6	48.5	250	-0.5	-0.5	4.8	2.1	200	0.43	-0.2	7.5	2500	0.3	0.2	1.05	56	0.9	14	1.4	48
R447989	13900	32.5	0.23	9600	460	0.9	4350	5	27.5	20	330	15	7	66	150	-0.5	-0.5	5.5	3.1	90	0.46	-0.2	10.5	3150	0.4	0.25	1.2	74	1	14.5	1.6	56
R447990	6450	25	0.18	8950	220	0.6	2000	-5	20	11	230	-5	5	19.5	250	-0.5	-0.5	4.4	1.5	300	0.41	-0.2	5.5	1800	0.3	0.2	0.91	44	0.8	14.5	1.3	32
R447991	6650	25	0.18	10300	260	0.3	2000	-5	21	15	290	-5	5.5	18.5	300	-0.5	-0.5	4.4	1.5	330	0.39	-0.2	6	2650	0.2	0.2	0.9	57	0.7	13.5	1.25	36
R447992	6600	25.5	0.19	8300	200	0.2	1900	-5	20.5	12	240	-5	5	20	200	-0.5	-0.5	4.5	1.4	290	0.42	-0.2	5.5	1950	0.2	0.2	0.86	46	0.6	15.5	1.3	30
R447993	8350	27	0.2	8450	260	0.1	2550	-5	21.5	16	240	10	5.5	24	350	-0.5	-0.5	4.8	1.6	280	0.42	-0.2	8	2350	0.2	0.2	0.93	50	0.6	13.5	1.3	35
R447994	6050	28	0.21	8800	200	0.1	1750	-5	24	12	220	5	6	17	300	-0.5	-0.5	5.5	1.3	360	0.49	-0.2	5.5	1800	0.2	0.25	0.72	41	0.5	17	1.45	32
R447995	9350	30	0.23	8850	320	0.2	2600	-5	24.5	19	260	15	6	26.5	250	-0.5	-0.5	5	1.8	240	0.48	-0.2	8.5	3000	0.3	0.25	0.94	60	0.6	16	1.55	52
R447996	7550	48.5	0.25	7550	260	0.9	2150	-5	37.5	18	250	5	10	21.5	250	-0.5	-0.5	8	1.6	230	0.63	-0.2	8	2300	0.2	0.25	0.91	52	1.1	19.5	1.6	36
R447997	9800	32	0.22	8500	330	0.4	2850	-5	25.5	21	260	10	6.5	28.5	250	-0.5	-0.5	5.5	1.9	250	0.49	-0.2	10	3100	0.3	0.25	1	63	1	15.5	1.5	45
R447998	9300	37.5	0.21	8700	360	0.5	3400	-5	28.5	23	600	15	7.5	26.5	300	-0.5	-0.5	6	1.9	200	0.45	-0.2	9.5	2500	0.3	0.2	1.05	63	0.9	14	1.4	42
R447999	9800	36.5	0.21	11800	390	0.6	3700	-5	27	22	430	10	7	28	350	-0.5	-0.5	5.5	1.9	260	0.47	-0.2	9.5	2600	0.3	0.2	1.25	68	0.9	14	1.4	44
R448000	7650	51	0.2	8750	300	0.6	2850	-5	41.5	18	240	10	10.5	22.5	200	-0.5	-0.5	8	1.6	230	0.6	-0.2	8	2500	0.3	0.2	0.88	54	0.9	15.5	1.35	38
R448001	11700	32	0.21	8850	400	1.4	3300	-5	24	24	280	20	6	33.5	200	-0.5	-0.5	5	2.3	110	0.45	-0.2	11	3500	0.3	0.2	1.05	68	1.2	14	1.45	60

Appendix 3.1. BlueRose augered samples >6mm

	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
R448002	7750	43	0.21	9650	360	0.8	3050	-5	31.5	19	340	15	8.5	24	300	-0.5	-0.5	6.5	1.5	250	0.51	-0.2	7	2350	0.3	0.2	1.1	54	0.8	14.5	1.4	36
R448003	8000	30	0.23	9800	360	0.5	3400	-5	23.5	20	310	10	6	24	250	-0.5	-0.5	5	1.6	230	0.48	-0.2	7.5	2300	0.2	0.25	0.96	54	0.8	16	1.55	47
R448004	8350	30.5	0.24	9750	270	0.5	2300	-5	25.5	18	330	10	6.5	25	300	0.5	-0.5	5.5	1.8	270	0.54	-0.2	7.5	2350	0.2	0.25	1	65	0.9	19	1.65	41
R448005	9150	30.5	0.22	9050	360	0.3	2650	-5	23.5	18	260	-5	6	26	350	-0.5	-0.5	5	1.9	300	0.46	-0.2	8.5	2850	0.3	0.25	0.98	59	0.9	15.5	1.5	41
R448006	7200	30.5	0.24	8950	220	0.2	1950	-5	26.5	12	260	-5	6.5	21	450	-0.5	-0.5	6	1.6	310	0.56	-0.2	7.5	2050	0.2	0.25	0.91	47	0.7	21	1.7	31
R448007	9700	34	0.17	6850	320	0.7	3400	-5	24	22	260	15	6.5	27	200	-0.5	-0.5	5	2	125	0.4	-0.2	9.5	2600	0.3	0.15	0.85	65	0.9	11	1.15	42
R448008	6600	46	0.18	8100	280	1.3	2100	-5	35.5	32	300	40	9	19	250	1.5	0.5	7.5	1.5	250	0.51	-0.2	7	1700	0.2	0.2	1.15	57	0.8	12.5	1.2	105
R448009	7250	33.5	0.17	6750	360	1.3	3800	-5	25.5	21	340	20	6.5	21	250	-0.5	-0.5	5.5	1.5	210	0.42	-0.2	7.5	2150	0.2	0.15	0.88	51	0.7	12	1.15	34
R448010	10000	35.5	0.23	8450	330	0.6	2950	-5	28.5	19	290	10	7	28	200	-0.5	-0.5	6	2.1	190	0.54	-0.2	11	2850	0.3	0.25	1.05	64	0.9	16.5	1.6	42
R448011	8650	29	0.24	9200	240	0.4	2500	-5	22.5	17	320	5	6	24	300	-0.5	-0.5	4.9	1.8	300	0.49	-0.2	7	2300	0.2	0.25	1.05	60	0.8	17.5	1.6	36
R448012	7850	27.5	0.19	9500	300	0.6	3650	-5	21	22	430	25	5.5	24	300	-0.5	-0.5	4.5	1.6	260	0.4	-0.2	6.5	1500	0.3	0.2	1.2	60	0.9	14	1.3	45
R448013	6100	20.5	0.13	6050	195	0.7	1800	-5	16	14	180	10	4.1	17.5	300	-0.5	-0.5	3.4	1.3	230	0.3	-0.2	5.5	2000	0.2	0.15	0.64	42	0.6	9.5	0.9	28
R448014	6500	31	0.17	10000	240	0.5	2150	-5	23	13	260	5	6	19	350	-0.5	-0.5	5	1.5	320	0.41	-0.2	7	2050	0.2	0.2	0.95	52	0.7	13	1.2	32
R448015	6250	34.5	0.23	25600	270	0.3	2000	-5	27	13	270	-5	7	20	300	-0.5	-0.5	6	1.4	380	0.54	-0.2	8	2050	0.2	0.25	1.05	46	0.7	19.5	1.6	30
R448016	9150	33	0.21	19700	320	0.4	3600	-5	23.5	21	320	10	6	27	350	-0.5	-0.5	5	2	380	0.42	-0.2	9.5	2850	0.3	0.2	1.45	62	1	13.5	1.35	42
R448017	13000	34	0.24	24300	390	0.4	5400	-5	25.5	18	330	10	6.5	39	400	-0.5	-0.5	5.5	2.4	430	0.46	-0.2	11	2900	0.4	0.25	1.75	68	1.1	14.5	1.6	50
R448018	7500	26	0.18	9300	190	0.3	1900	-5	20	11	260	5	5	21.5	350	-0.5	-0.5	4.3	1.5	370	0.39	-0.2	6	1850	0.2	0.2	1	46	0.7	13.5	1.3	27
R448019	6400	26.5	0.24	34600	230	0.1	1850	-5	21	11	240	-5	5.5	20	300	-0.5	-0.5	4.8	1.4	440	0.47	-0.2	5.5	1700	0.2	0.25	1.25	38	0.6	19	1.6	25
R448020	7850	29	0.21	10300	370	2.4	3250	-5	21	23	440	25	5.5	23	250	-0.5	-0.5	4.6	1.8	250	0.42	-0.2	6.5	1400	0.2	0.2	1.15	58	0.9	14.5	1.4	52
R448021	7000	28.5	0.2	11700	320	0.6	3050	-5	21.5	16	360	15	5.5	21	300	-0.5	-0.5	4.6	1.6	280	0.42	-0.2	6.5	1700	0.2	0.2	1.2	64	0.7	14.5	1.35	44
R448022	9100	28.5	0.19	8850	300	0.7	4100	-5	20.5	15	370	5	5.5	26.5	250	-0.5	-0.5	4.4	1.8	200	0.39	-0.2	8.5	2250	0.3	0.2	0.98	55	0.8	13	1.3	36
R448023	8300	32	0.2	7800	340	0.4	2950	-5	23	15	290	-5	6	25	250	-0.5	-0.5	5	2.2	185	0.45	-0.2	8	2350	0.2	0.2	0.98	53	0.8	15	1.4	36
R448024	4750	18	0.16	14100	180	0.2	1550	-5	14.5	7	240	-5	3.7	16	400	-0.5	-0.5	3.2	1.2	500	0.3	-0.2	5.5	1700	0.2	0.15	1.1	41	0.7	11	1.1	23
R448025	4850	34.5	0.18	8350	160	0.1	1350	-5	26	8	220	-5	6.5	14.5	300	-0.5	-0.5	5.5	1.1	400	0.44	-0.2	6.5	1400	0.2	0.2	0.84	33	0.5	15	1.2	20
R448026	4800	23.5	0.21	11700	290	-0.1	1150	-5	18.5	10	210	-5	4.6	14.5	350	-0.5	-0.5	4.1	1.2	460	0.43	-0.2	3.7	1150	0.2	0.25	0.79	34	1.1	19.5	1.5	19
R448027	6050	24.5	0.21	7300	200	0.2	1700	-5	19.5	11	240	-5	4.8	18	300	-0.5	-0.5	4.3	1.3	320	0.41	-0.2	5.5	1850	0.2	0.2	0.75	44	0.8	16	1.35	24
R448028	5650	24	0.19	9200	170	0.2	1900	-5	19	9	220	-5	4.8	16.5	300	-0.5	-0.5	4.3	1.2	360	0.41	-0.2	5.5	1650	0.2	0.2	0.76	42	0.6	16	1.3	23
R448029	4850	23.5	0.17	12600	155	-0.1	3050	-5	17.5	8	220	5	4.4	14.5	300	-0.5	-0.5	3.9	1.2	440	0.36	-0.2	5.5	1950	0.2	0.2	0.85	38	0.8	13.5	1.15	22
R448030	4800	24	0.19	6800	220	1.2	24200	5	16	6	170	5	4.2	13.5	200	-0.5	-0.5	3.5	1.4	310	0.33	-0.2	10	1150	0.2	0.2	1.25	26	2.4	12.5	1.3	22
R448031	3750	18.5	0.18	12700	440	1	3850	-5	14	13	600	-5	3.4	11.5	150	-0.5	-0.5	3.2	1.5	98	0.33	-0.2	5.5	1400	0.2	0.2	0.78	31	1.3	12.5	1.15	28
R448032	9050	25.5	0.08	21300	430	0.9	8050	-5	9	17	460	-5	2.4	44.5	400	-0.5	1	1.9	1.1	220	0.16	-0.2	3	2300	-0.1	0.1	0.44	53	-0.1	15	0.55	38
R448033	4550	24.5	0.17	15500	350	1	2450	-5	17.5	12	270	-5	4.5	30	450	-0.5	0.5	3.8	0.8	420	0.33	-0.2	4.2	1250	0.2	0.15	1	39	0.2	17	1.1	23
R448034	9650	55	0.43	13200	1050	1	4550	5	53	26	480	15	13	53	200	-0.5	-0.5	11.5	1.6	130	1	-0.2	9	2850	0.4	0.45	1.55	65	1.1	34	2.9	55
R448035	5550	27	0.2	8800	200	0.6	1750	-5	21.5	8	240	-5	5.5	33	350	-0.5	-0.5	4.7	0.9	340	0.41	-0.2	5.5	1650	0.1	0.2	0.83	54	0.4	19.5	1.35	24
R448036	4750	33.5	0.23	21800	170	0.4	1450	-5	27.5	7	230	-5	6.5	29.5	400	-0.5	-0.5	6	0.8	360	0.51	-0.2	4.5	1450	-0.1	0.25	1.05	36	0.2	24	1.5	20
R448037	7200	28	0.22	12800	210	0.4	2000	-5	22.5	11	220	-5	5.5	38.5	400	-0.5	-0.5	4.8	1	310	0.43	-0.2	6	2100	0.1	0.25	1	43	0.3	20.5	1.45	28
R448038	9450	35	0.27	10100	270	0.9	2650	-5	29	13	260	-5	7.5	46	350	-0.5	-0.5	6	1.4	260	0.56	-0.2	6.5	2400	0.2	0.3	1.05	52	0.4	25	1.8	36
R448039	7250	29	0.23	10100	220	0.5	2100	-5	24.5	10	260	5	6	37.5	500	-0.5	-0.5	5.5	1.1	310	0.47	-0.2	6	2000	0.1	0.25	0.92	45	0.3	20.5	1.55	29

Appendix 3.2
Analyses of <2 mm soil samples

Appendix 3.2. BlueRose soil <2mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M	IC3R
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5	0.02
Sample_no	Field_no	Northing	Easting	Error	Description																										
R447904	BRS1	6388028	428817	3.7	greyish yell-bn soil	0.2	54600	5	1		280	0.4	31900	-0.1	59	15	41	2.7	27	3	1.55	1.15	41000	15.5	4	3	0.55	0.05	15100	34	0.24
R447905	BRS2	6387979	428820	4.7	pale greyish orbn soil	0.2	49500	5.5	2		270	0.4	44000	-0.1	58	14	34	2.3	25	2.9	1.45	1.1	41000	14	3.9	3	0.53	0.05	14500	32.5	0.23
R447906	BRS3	6387929	428819	3.6	greyish, orbn calcareous soil	0.2	50800	5	-1		270	0.3	42200	-0.1	58	13.5	32	2.5	25	2.9	1.45	1.15	37300	14.5	4	3	0.53	-0.05	15100	32	0.23
R447907	BRS4	6387879	428818	4.7	pale greyish orbn soil	0.2	52600	4.5	-1		290	0.3	46400	-0.1	63	13.5	31	2.6	27	3	1.5	1.2	38100	14.5	4.2	3	0.55	0.05	15600	36	0.23
R447908	BRS5	6388180	428822			0.2	56000	5	1		290	0.3	38600	-0.1	63	14.5	35	2.9	29	3.2	1.6	1.25	38500	16	4.4	3	0.58	0.05	16000	35.5	0.25
R447909	BRS6	6388078	428822			0.2	56400	6	1		280	0.4	38200	0.1	63	14.5	37	2.8	35	3.2	1.55	1.2	40100	15.5	4.3	3	0.57	0.05	15700	34.5	0.25
R447910	BRS7	6387791	428802	6.6	orbn at surface; greyish orbn, calcareous at depth	0.2	49800	3	-1		280	0.4	20000	-0.1	60	13.5	33	2.3	24	3.2	1.55	1.2	41600	13.5	4.2	3	0.58	0.05	15500	33.5	0.23
R447911	BRS8	6387694	428796	3.9		0.1	47000	2.5	1		240	0.3	6950	-0.1	58	12	30	2.2	23	2.8	1.4	1.1	39700	13	3.8	2	0.51	-0.05	14700	32	0.22
R447912	BRS9	6387597	428802	3.5		0.2	56400	4.5	-1		280	0.3	37900	-0.1	75	14	37	2.7	31	3.3	1.6	1.3	41300	15	4.6	3	0.59	0.05	16400	41.5	0.24
R447913	BRS10	6388230	428827	4.5	greyish,orbn calcareous soil	0.2	58100	4.5	2		290	0.3	40800	-0.1	59	14	37	2.9	31	3.2	1.6	1.15	39900	15.5	4.1	3	0.59	0.05	16100	32	0.26
R447914	BRS11	6388128	428819	6.9	greyish orbn calcareous soil	0.2	57100	5	1		290	0.3	50300	-0.1	63	14	35	2.8	30	3.2	1.6	1.2	39700	15	4.3	3	0.58	0.05	15100	34.5	0.25
R447915	BRS12	6388278	428821	4.7	greyish orbn calcareous soil	0.2	59300	5	2		300	0.3	39000	-0.1	62	13	35	3.1	31	3.2	1.6	1.2	39300	16	4.1	3	0.59	0.05	16200	33.5	0.25
R447916	BRS13	6388327	428822	5.5	greyish orbn calcareous soil	0.2	58100	5.5	2		300	0.3	49000	-0.1	65	12.5	30	3	31	3.2	1.6	1.25	36100	15.5	4.3	3	0.58	0.05	15500	35.5	0.26
R447917	BRS14	6388377	428836	6.4	yellowish greyish orbn calcareous soil	0.2	58700	5	1		300	0.3	35100	0.1	59	13	35	3	31	3.2	1.6	1.2	39300	15.5	4	3	0.58	0.05	16400	31.5	0.25
R447918	BRS15	6388476	428828	3.5	yellowish greyish orbn calcareous soil	0.1	53600	4	1		290	0.3	35300	0.1	66	13	31	2.7	27	3.1	1.55	1.2	40400	14.5	4.3	3	0.56	0.05	15700	36	0.24
R447919	BRS16	6388574	428831	4.3	greyish orbn calcareous soil	0.2	59900	5	1	1	300	0.3	39100	-0.1	66	13.5	36	3.1	31	3.3	1.65	1.25	38300	16	4.3	3	0.6	0.05	16500	35.5	0.26
R447920	BRS17	6388678	428833	3.6	pale greyish orbn calcareous soil	0.1	43300	3.5	1		270	0.3	51600	-0.1	56	12	27	2.1	22	2.7	1.3	1.05	36400	11.5	3.8	2	0.48	-0.05	13100	31	0.21
R447921	BRS18	6388779	428836	4.3	pale greyish orbn calcareous soil	0.1	56900	3.5	2		300	0.3	33200	-0.1	86	14	32	2.9	29	3.5	1.7	1.45	41300	15	5	3	0.63	0.05	16400	48.5	0.26
R447922	BRS19	6388879	428838	4.5	greyish orbn calcareous soil	0.2	63400	4.5	-1		280	0.3	34000	-0.1	68	14.5	34	3.2	34	3.4	1.7	1.3	40900	16.5	4.6	3	0.63	0.05	17400	36	0.27
R447923	BRS20	6388961	428840	4.8	greyish orbn calcareous soil; rel.abundant calcrete nodules	0.2	54900	4.5	1		260	0.5	32600	-0.1	79	13.5	35	2.7	29	3.5	1.6	1.35	43800	14.5	5	3	0.59	-0.05	16000	44	0.24
R448326	BRS21	6387904	428818	4.3		0.2	53500	6	-1		260	0.3	50800	-0.1	69	12	31	3.2	27	3.3	1	1.2	39900	14.5	4.3	3	0.56	-0.05	14100	34	0.26
R448327	BRS22	6387953	428816	3.2		0.2	47800	6	2		250	0.3	73700	0.1	67	12	28	2.9	26	2.9	0.85	1.1	37900	13	3.9	2	0.51	-0.05	13200	32.5	0.22
R448328	BRS23	6388006	428817	3.7		0.2	50900	6.5	1		250	0.4	47200	-0.1	89	13	34	3.2	26	3.5	1	1.35	41400	14	4.9	3	0.59	0.05	13200	43.5	0.27
R448329	BRS24	6388054	428815	3.8		0.2	58100	8.5	2	2	270	0.4	41600	-0.1	84	12.5	41	3.5	27	3.5	1.05	1.35	41700	15.5	4.7	3	0.54	0.05	14200	41	0.28
R448330	BRS25	6388104	428816	3.9		0.2	57600	7.5	5		270	0.3	44700	0.2	74	13.5	41	3.6	29	3.4	1.05	1.2	40300	16	4.2	3	0.58	0.05	14800	36	0.28
R448331	BRS26	6388155	428815	4		0.2	57700	6.5	3		270	0.3	50100	0.1	85	13	38	3.8	29	3.6	1	1.25	38600	15.5	4.6	3	0.56	0.05	14600	41.5	0.29
R448332	BRS27	6388201	428821	3.8		0.2	58000	7	2		270	0.4	43600	-0.1	85	13	36	3.8	28	3.5	1	1.25	39900	15	4.5	3	0.58	-0.05	14900	41.5	0.27
R448333	BRS28	6388253	428822	5.8		0.2	59000	7.5	2		280	0.3	46400	0.1	88	12.5	38	4.1	30	3.5	1	1.25	37800	15.5	4.4	3	0.59	-0.05	15000	42	0.29
R448334	BRS29	6388300	428820	4		0.2	61000	7	3		290	0.3	46900	0.2	84	13.5	37	4.3	30	3.6	1.05	1.2	38600	16.5	4.4	3	0.61	0.05	15200	40.5	0.27
R448335	BRS30	6388360	428820	3.9		0.2	59600	7.5	3		280	0.3	43700	0.1	110	13.5	38	4.2	30	3.7	1.05	1.3	40100	16.5	4.8	3	0.61	-0.05	15600	49	0.31
R448336	BRS31	6388050	427617	3.5		0.2	62800	5.5	2		270	0.3	18100	0.1	120	16	43	4.2	34	4.4	1.25	1.6	41400	18	6	3	0.68	0.05	18600	62	0.32
R448337	BRS32	6387998	427618	3.9		0.3	56400	5.5	-1		270	0.5	31800	-0.1	65	14	40	3.7	31	3.4	1.85	1.25	39500	14.5	4.6	3	0.61	-0.05	16300	38.5	0.29
R448338	BRS33	6387949	427618	3.1		0.2	69100	5.5	-1		290	0.4	11800	0.1	81	16	47	4.9	38	4.1	2.1	1.7	42700	19	6	3	0.75	0.05	20300	48	0.33
R448339	BRS34	6387899	427617	3.2		0.3	72600	5.5	-1		290	0.4	7550	0.2	79	16	50	5	40	4.2	2.1	1.55	44500	20.5	5.5	4	0.76	0.05	20100	43.5	0.34
R448340	BRS35	6387849	427616	3.1		0.3	98700	5	-1		300	0.4	8600	0.2	77	18	55	5.5	49	4.2	2.2	1.5	46000	22	5.5	4	0.77	0.05	21600	38	0.37
R448341	BRS36	6387803	427611	5.2		1.8	104000	4	-1		290	0.4	10000	0.1	73	17.5	52	4.5	69	4.2	2.1	1.45	43800	20	5.5	4	0.75	0.1	19300	40	0.33
R448342	BRS37	6387741	427609	4.6		0.2	60700	5.5	2		270	0.4	33700	0.1	63	14	49	3.7	63	3.9	1.95	1.4	40000	16	4.8	3	0.68	-0.05	16500	34.5	0.34
R448343	BRS38	6387695	427612	6.4		0.3	55600	5.5	1		290	0.4	49600	0.1	56	13.5	43	3.4	45	3.3	1.7	1.2	37200	14.5	4	3	0.57	-0.05	15000	30.5	0.29
R448344	BRS39	6387647	427609	4.7		0.2	48600	5.5	2	2	250	0.3	52700	-0.1	63	12.5	39	2.9	55	3.2	1.55	1.25	35600	12.5	4.4	3	0.56	-0.05	13800	33.5	0.27
R448345	BRS40	6387593	427609	4.8		0.2	43900	5	3		250	0.3	72400	0.1	56	12	36	2.6	110	2.9	1.5	1.15	34300	11.5	4.1	2	0.53	-0.05	12600	29.5	0.24
R448346	BRS41	6387554	427608	6.3		0.2	49700	4	17		240	0.5	37600	0.1	64	15	31	3.1	280	3.3	1.7	1.25	36200	13	4.3	3	0.57	-0.05	14000	35.5	0.26
R448347	BRS42	6387501	427610	4.8		0.3	61900	5	6		260	0.3	24000	0.1	73	19	38	4.4	185	4.1	2.1	1.45	40400	17	5	3	0.75	0.05	16600	40	0.35
R448348	BRS43	6387450	427610	4.4		0.2	61600	5	19	24	260	0.5	27800	0.2	68	19.5	36	4	220	4	2	1.45	40600	17	5	3	0.73	0.05	16200	39	0.34
R448349	BRS44	6387403	427605	5.2		0.2	61400	5	2		260	0.4	25000	-0.1	72	18.5	38	4.2	85	4.2	2.2	1.55	41300	17	5.5	3	0.77	-0.05	16200	43.5	0.36
R448350	BRS45	6387351	427611	4.6		0.2	68500	5	-1		250	0.5	10100	0.1	71	21.5	43	4.9	65	4.9	2.5	1.65	44600	19.5	6	3	0.87	0.05	16900	41.5	0.39
R448351	BRS46	6387303	427614	5.6		0.2	64100	4.5	-1		290	0.5	8800	0.2	92	20.5	42	4.3	64	4.9	2.5	1.75	42700	18	6	3	0.86	0.05	15700	46.5	0.4

Appendix 3.2. BlueRose soil <2mm

	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																													
R447904	9550	450	0.5	4850	10	28.5	22	310	-5	7.5	68	250	0.5	-0.5	5.5	1.3	97	0.44	-0.2	13.5	5500	0.4	0.25	1.05	80	0.6	19.5	1.7	61
R447905	8700	420	0.5	4800	5	29	22	270	5	7.5	62	250	-0.5	-0.5	6	1.8	105	0.44	-0.2	12.5	4750	0.4	0.25	0.98	76	0.8	17	1.6	55
R447906	9050	430	0.4	4800	5	29	19	260	10	7.5	65	200	-0.5	-0.5	5.5	2	110	0.45	-0.2	14	5050	0.4	0.25	1.05	72	0.8	17	1.55	54
R447907	9400	410	0.4	4800	5	31	21	270	10	8	67	250	-0.5	-0.5	6	2	110	0.46	-0.2	12.5	4800	0.4	0.25	1.05	75	0.9	18	1.65	56
R447908	10800	440	0.7	4600	5	31.5	21	290	5	8	72	250	-0.5	-0.5	6	2.3	110	0.49	-0.2	13	4950	0.4	0.25	1.1	77	3	19	1.75	61
R447909	10900	440	0.5	4700	10	31	22	270	15	8	70	350	-0.5	-0.5	6	2.2	105	0.48	-0.2	13.5	4750	0.4	0.25	1.05	81	2.1	18.5	1.7	61
R447910	8550	480	0.5	5450	10	31	22	270	15	8	65	250	-0.5	-0.5	6	2	86	0.48	-0.2	12.5	4900	0.4	0.25	0.99	73	1	18	1.65	58
R447911	7700	440	0.4	4850	10	28.5	22	250	10	7.5	59	200	-0.5	-0.5	5.5	1.8	69	0.43	-0.2	12	4500	0.4	0.25	0.95	69	0.6	16	1.55	53
R447912	9750	440	0.5	4850	10	36	20	290	10	9.5	66	300	-0.5	-0.5	7	2.2	105	0.51	-0.2	16	4550	0.4	0.25	1.2	80	1.1	18.5	1.7	58
R447913	10800	450	0.5	4400	10	29.5	21	290	15	7.5	69	250	-0.5	-0.5	6	2.2	105	0.47	-0.2	13	4900	0.4	0.25	1.1	83	1.1	18.5	1.75	61
R447914	10800	420	0.4	4300	5	31	23	280	-5	8	67	250	-0.5	-0.5	6	2.2	110	0.49	-0.2	14	4850	0.4	0.25	1.15	82	1	19	1.75	59
R447915	11400	430	0.4	4150	5	30	23	290	10	8	71	250	-0.5	-0.5	6	2.3	105	0.48	-0.2	13	4750	0.4	0.25	1.1	85	1	18.5	1.8	63
R447916	11200	390	0.3	4150	5	32	22	290	10	8.5	68	250	-0.5	-0.5	6.5	2.2	110	0.48	-0.2	14	4650	0.4	0.25	1.1	83	1.1	18.5	1.75	59
R447917	11400	430	0.4	4250	10	28.5	23	280	10	7.5	69	250	-0.5	-0.5	6	2.3	97	0.46	-0.2	12.5	4850	0.4	0.25	1.15	82	0.9	18	1.75	63
R447918	10600	450	0.3	4650	10	31.5	23	290	10	8.5	65	250	-0.5	-0.5	6.5	2.1	100	0.48	-0.2	13	5100	0.4	0.25	1.1	78	0.3	17.5	1.7	62
R447919	11500	430	0.4	4100	10	32	24	310	10	8	69	250	-0.5	-0.5	6.5	2.4	100	0.5	-0.2	13.5	4650	0.4	0.25	1.15	82	0.9	19	1.8	63
R447920	8400	370	0.2	4500	5	28.5	19	270	5	7.5	52	250	-0.5	-0.5	5.5	1.7	110	0.41	-0.2	12	4400	0.3	0.2	0.99	68	0.2	15	1.45	51
R447921	10700	450	0.5	4550	5	39.5	24	310	10	10.5	67	250	-0.5	-0.5	7.5	2.2	94	0.55	-0.2	16.5	5250	0.4	0.25	1.2	77	0.6	19	1.8	64
R447922	11800	460	0.3	4350	5	32.5	25	280	10	8.5	72	250	-0.5	-0.5	6.5	2.4	105	0.51	-0.2	14	5050	0.4	0.3	1.2	84	0.8	19.5	1.85	66
R447923	10100	450	0.4	4800	5	38.5	26	290	15	10	65	300	-0.5	-0.5	7.5	2.2	105	0.55	-0.2	17	5300	0.4	0.25	1.3	79	1	18	1.65	60
R448326	9100	410	0.4	4950	-5	29	24	260	10	7	41.5	200	-0.5	-0.5	5.5	1.8	125	0.52	-0.2	14.5	5300	0.3	0.3	1.15	80	0.4	21.5	1.7	54
R448327	8500	370	0.5	4800	-5	27	21	260	15	7	37	250	-0.5	-0.5	5	1.6	150	0.45	-0.2	14	5200	0.3	0.2	1	75	0.5	19.5	1.5	54
R448328	8700	410	0.4	4650	-5	35.5	23	260	10	9	40	250	-0.5	-0.5	7	1.6	115	0.57	-0.2	17.5	5350	0.3	0.25	1.2	83	0.4	22.5	1.75	56
R448329	10000	420	0.6	4550	-5	33	24	260	15	8.5	43.5	200	-0.5	-0.5	6.5	2	125	0.52	-0.2	16.5	5350	0.3	0.3	1.15	88	2.3	22.5	1.75	59
R448330	10400	430	0.7	4500	-5	29	24	280	15	7.5	44.5	200	-0.5	-0.5	5.5	2.2	120	0.5	-0.2	15.5	5400	0.3	0.3	1.15	86	1.6	22.5	1.8	61
R448331	10700	430	0.7	4550	-5	31.5	23	280	10	8	45.5	200	-0.5	-0.5	6	2.1	140	0.54	-0.2	16.5	5200	0.4	0.3	1.25	82	1.2	24	1.8	58
R448332	10700	420	0.8	4950	-5	30.5	24	280	10	8	45.5	200	-0.5	-0.5	6	2.1	135	0.54	-0.2	16	5300	0.3	0.3	1.15	88	1.4	23	1.75	61
R448333	10900	400	0.6	4200	-5	31	23	280	15	8	47.5	200	0.5	-0.5	6	2.3	130	0.52	-0.2	16	5050	0.3	0.3	1.15	87	1.6	23.5	1.95	60
R448334	11600	430	0.8	4750	-5	29.5	24	290	10	7.5	48	250	-0.5	-0.5	6	2.5	140	0.5	-0.2	16	5300	0.4	0.3	1.2	89	1.7	23.5	1.9	62
R448335	11000	430	0.7	4450	-5	33	23	290	15	8.5	47.5	250	0.5	-0.5	6.5	2.5	125	0.56	-0.2	18	5300	0.4	0.3	1.3	87	1.8	25.5	1.85	62
R448336	13400	600	0.8	5400	-5	41.5	26	340	15	10.5	52	200	-0.5	-0.5	8	2.5	125	0.66	-0.2	18	5100	0.4	0.3	1.4	83	2	28.5	1.95	64
R448337	11700	550	0.4	6200	-5	32.5	24	380	15	8.5	55	250	-0.5	-0.5	6.5	2.1	110	0.53	-0.2	10	5000	0.5	0.3	1.3	80	0.3	20.5	1.85	53
R448338	13900	650	0.4	5250	-5	41	28	350	15	11	72	250	-0.5	-0.5	8.5	2.7	91	0.69	-0.2	12	5500	0.6	0.35	1.5	89	0.6	25	2.1	70
R448339	12900	700	0.4	5450	-5	38.5	28	330	15	10	73	250	0.5	-0.5	8	3	100	0.67	-0.2	12	5600	0.5	0.4	1.55	92	0.6	24	2.1	72
R448340	15500	750	0.5	4750	-5	36	32	390	20	9	78	250	-0.5	-0.5	7.5	3.2	100	0.65	-0.2	12	5700	0.6	0.35	1.65	96	0.7	24	2.2	82
R448341	14100	650	0.9	6050	90	38	29	390	20	10	65	250	-0.5	-0.5	8	18.5	80	0.64	-0.2	12.5	5350	0.4	0.35	1.65	88	0.9	23	2.1	76
R448342	11900	500	0.6	7650	-5	33	26	320	20	8.5	58	200	-0.5	-0.5	7	2.5	115	0.6	-0.2	10	5000	0.5	0.3	1.3	88	0.5	21.5	1.9	61
R448343	10100	500	0.4	6200	-5	28	25	350	10	7.5	55	250	-0.5	-0.5	6	2.2	115	0.47	-0.2	9.5	4800	0.4	0.25	1.2	86	0.4	18.5	1.6	57
R448344	9050	490	0.2	6650	-5	31	22	340	10	8	52	250	-0.5	-0.5	6.5	1.8	140	0.49	-0.2	10	4950	0.4	0.25	1.2	81	0.2	17.5	1.5	55
R448345	10000	490	0.1	5950	-5	27.5	22	390	10	7	45	250	-0.5	-0.5	6	1.5	140	0.47	-0.2	9	4500	0.3	0.25	1.1	75	0.2	16	1.45	50
R448346	12500	600	0.3	6250	-5	30	23	370	10	8	48.5	250	-0.5	-0.5	6	1.9	110	0.52	-0.2	9.5	4950	0.4	0.25	1.2	73	0.2	18.5	1.75	58
R448347	13600	650	0.4	5350	-5	35	29	350	15	9	60	200	-0.5	-0.5	7.5	2.5	115	0.6	-0.2	10.5	5050	0.5	0.35	1.25	83	0.2	24	2	67
R448348	14700	750	0.4	5300	-5	34	29	350	15	8.5	57	200	-0.5	-0.5	7	2.4	105	0.6	-0.2	10.5	5100	0.4	0.3	1.25	83	0.3	24	2	69
R448349	17300	650	0.3	4900	-5	37	31	360	15	9.5	58	200	-0.5	-0.5	7.5	2.6	100	0.62	-0.2	10.5	4950	0.5	0.35	1.2	84	0.4	24.5	2.2	68
R448350	17200	700	0.5	4600	-5	37.5	33	260	20	9.5	64	200	-0.5	-0.5	8	2.6	87	0.72	-0.2	11.5	5050	0.5	0.4	1.3	91	0.5	27.5	2.4	77
R448351	14200	700	0.4	5700	-5	40	31	280	20	10.5	59	200	-0.5	-0.5	8.5	2.7	89	0.76	-0.2	11.5	4900	0.4	0.45	1.4	86	0.4	26.5	2.5	73

Appendix 3.3
Analyses of rock-chip samples

Appendix 3.3. Blue Rose Rock Chips

					Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Hg	Ho	In	K	La	Lu
					Units	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E	IC3M	IC3R
					LLD	0.1	10	0.5	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.05	0.02	0.05	10	0.5	0.02
Sample_no	Field_no	Northing	Easting	Error	Description																										
R448433	BRR1	6387759	430422		lizardite -bearing outcrop in creek and on S bank	0.7	11900	1.5	11	45	0.2	8700	-0.1	15.5	7.5	7	0.5	33	1.1	0.6	0.26	25400	4.9	1.25	1	-0.05	0.2	-0.05	550	8.5	0.09
R448434	EBRR2	6387914	429581	4.8	siliceous rock, partly silcreted, with dissem pyr and Feoxides after pyr	0.5	6000	8.5	10	280	3.2	10500	0.2	8.5	21.5	31	0.4	950	2.1	1.35	0.59	53000	2.9	2	-1	-0.05	0.44	0.2	650	10	0.21
R448435	EBRR3	6387936	429773	10.5	yellow-bn silcreted rock with minor fg dissem pyr and boxworks after pyr	0.1	5350	4	-1	750	0.2	8750	-0.1	13	6	15	0.3	62	2.3	1.3	0.94	57400	2.1	2.5	-1	-0.05	0.48	0.05	450	7.5	0.19
Element	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
LLD	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																															
R448433	144000	420	0.8	380	-5	8	10	170	360	-20	1.95	-0.2	2.6	100	-0.5	-0.5	1.65	0.3	18.5	0.16	-0.2	4	850	0.1	0.1	1.3	29	0.7	5.5	0.65	59
R448434	9250	500	4.2	250	-5	10	14	155	35		2.4		2.6	13300	-0.5	32	2.4	0.9	48.5	0.28	0.5	1.7	470	0.8	0.25	7.5	44	0.5	12	1.35	97
R448435	10800	2000	3.3	195	-5	8.5	8	270	-5		2.1		2.2	1950	-0.5	2.5	3.2	0.4	70	0.32	-0.2	1.1	360	1.7	0.2	1.3	32	1.9	15	1.1	16

Appendix 3.4
Augered and rock chip sample plots

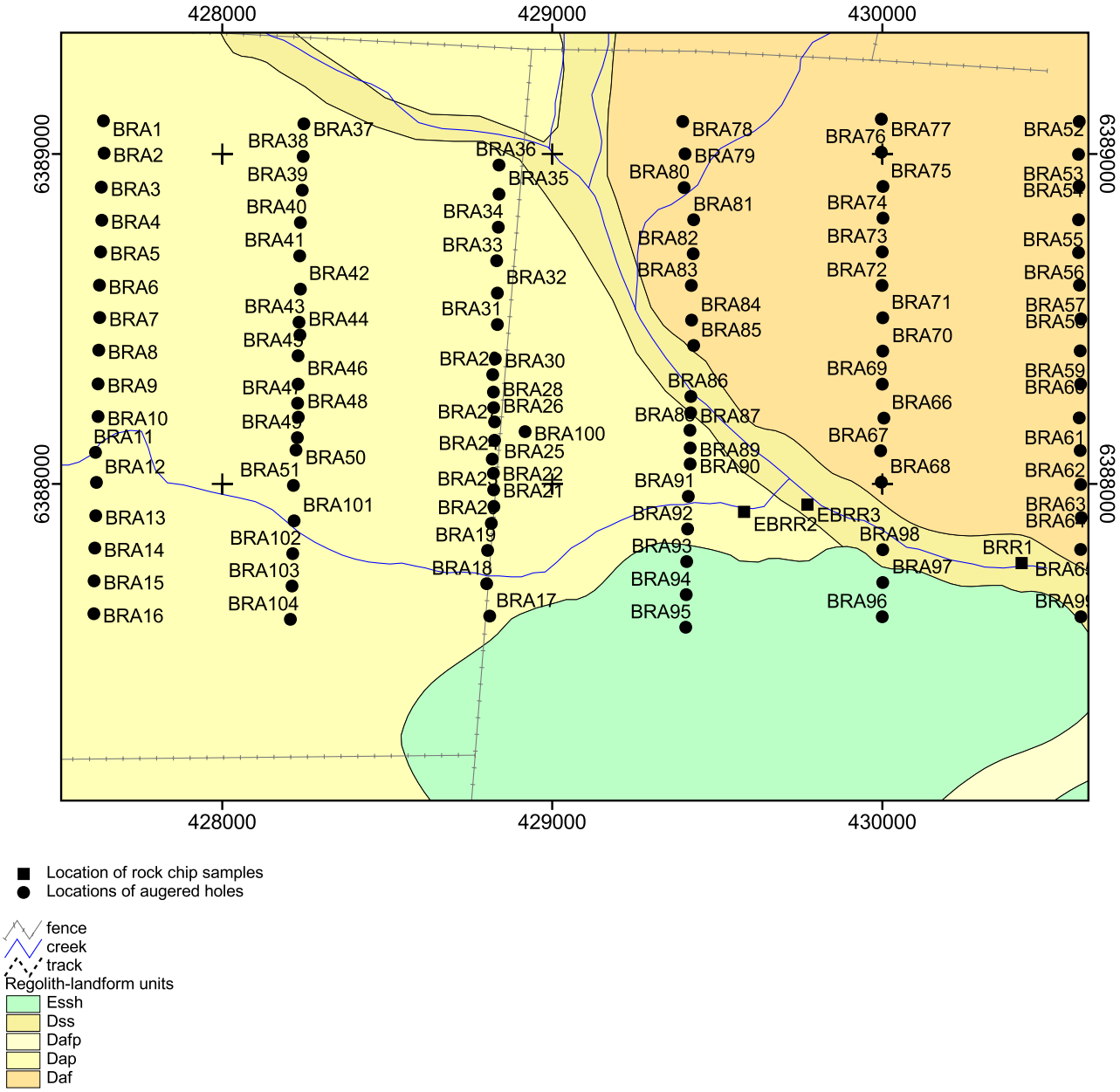


Figure A3.4.1. Distribution of augered and rock chip samples at Blue Rose

Regolith landform units used at Blue Rose are described below:

Essh - Lags of siltstone, mudstone and shale fragments on saprock, and in places saprolite is developed along fracture zones or drainage line. Low hills.

Dss - Unconsolidated fluvial sands and gravel. Modern stream channels.

Dafp - Alluvium and fluvial gravels, commonly carbonate-cemented. Floodplains.

Dap - Brown soil with lenses of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.

Daf - Brown soil with lags of river gravel and lenses of nodular calcretes on middle channel and overbank sediments. Gently sloping alluvial fans.

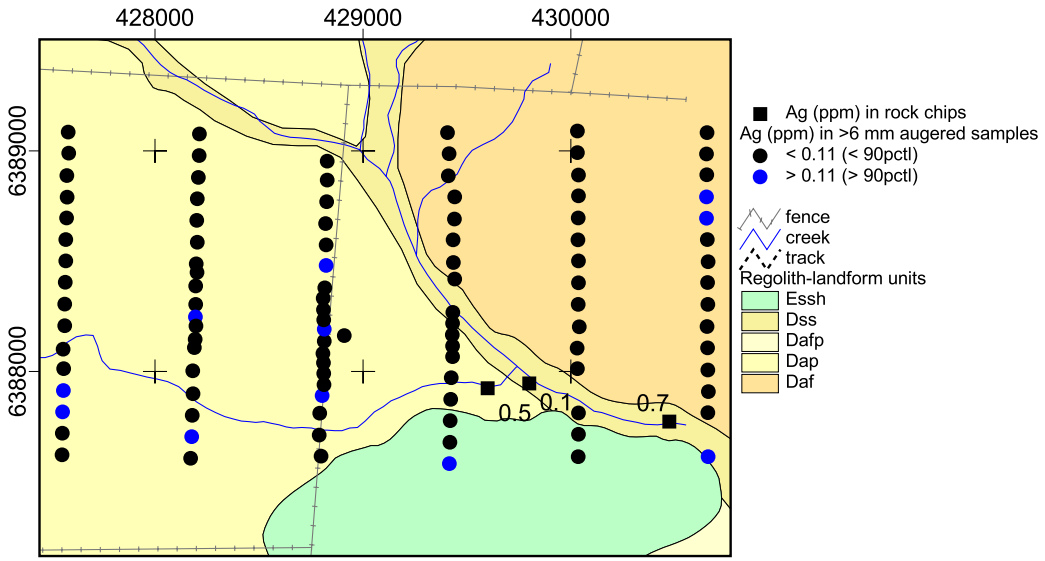


Figure A3.4.2. Distribution of Ag (ppm) in augered and rock chip samples

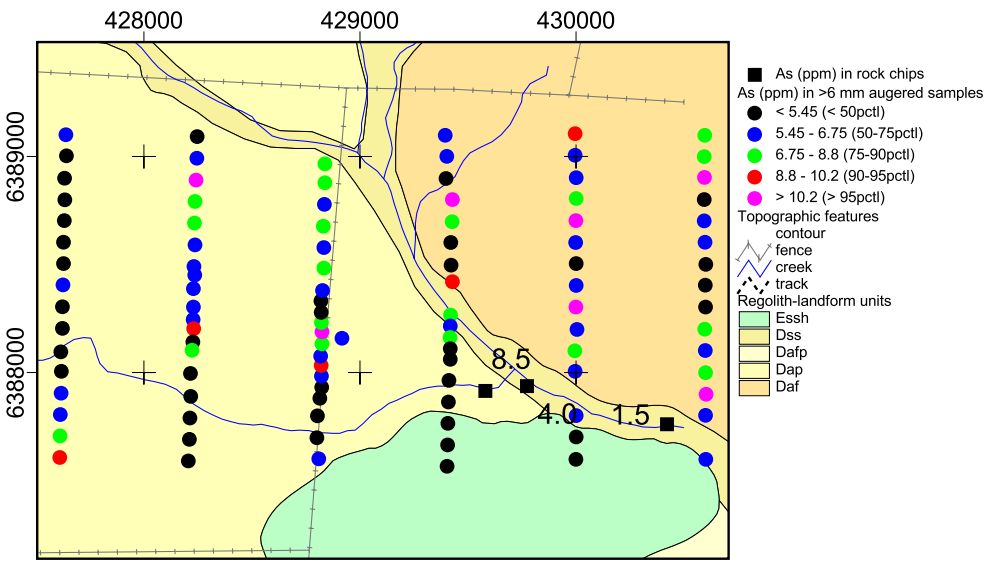


Figure A3.4.4. Distribution of As (ppm) in augered and rock chip samples

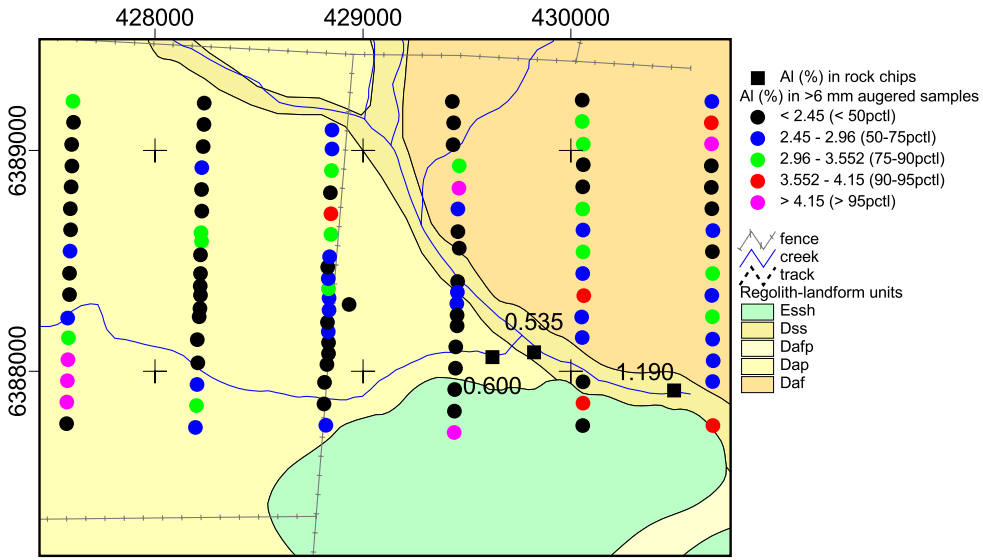


Figure A3.4.3. Distribution of Al (%) in augered and rock chip samples

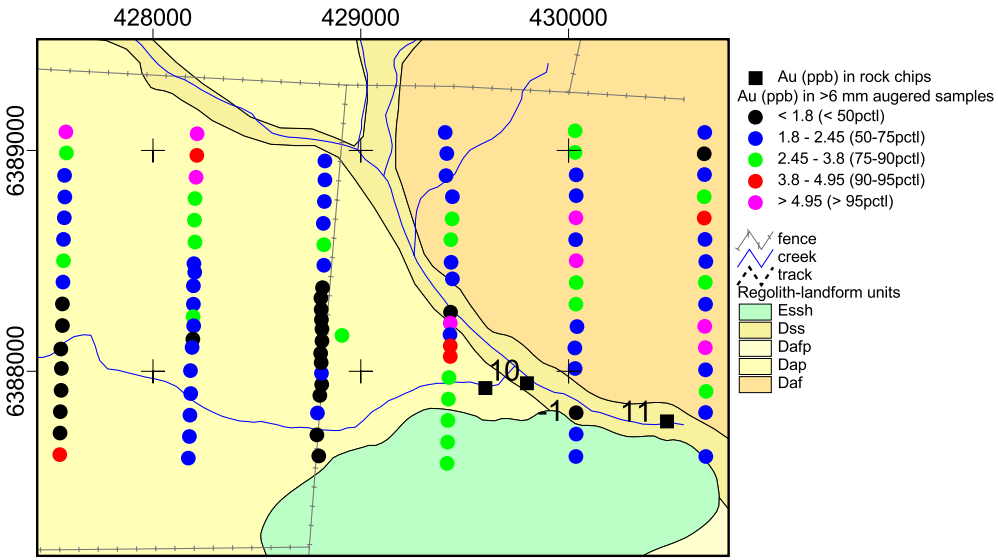


Figure A3.4.5. Distribution of Au (ppb) in augered and rock chip samples

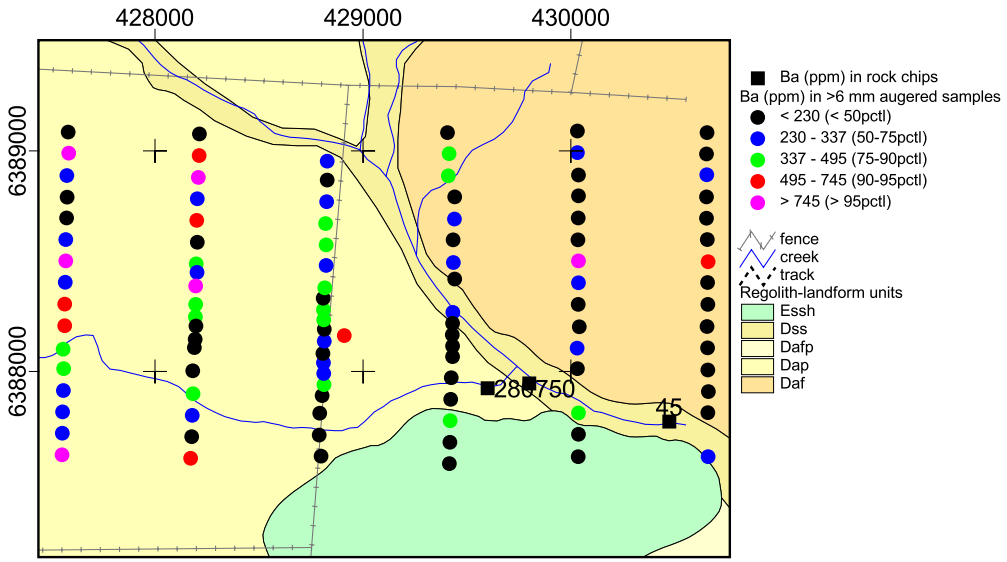


Figure A3.4.6. Distribution of Ba (ppm) in augered and rock chip samples

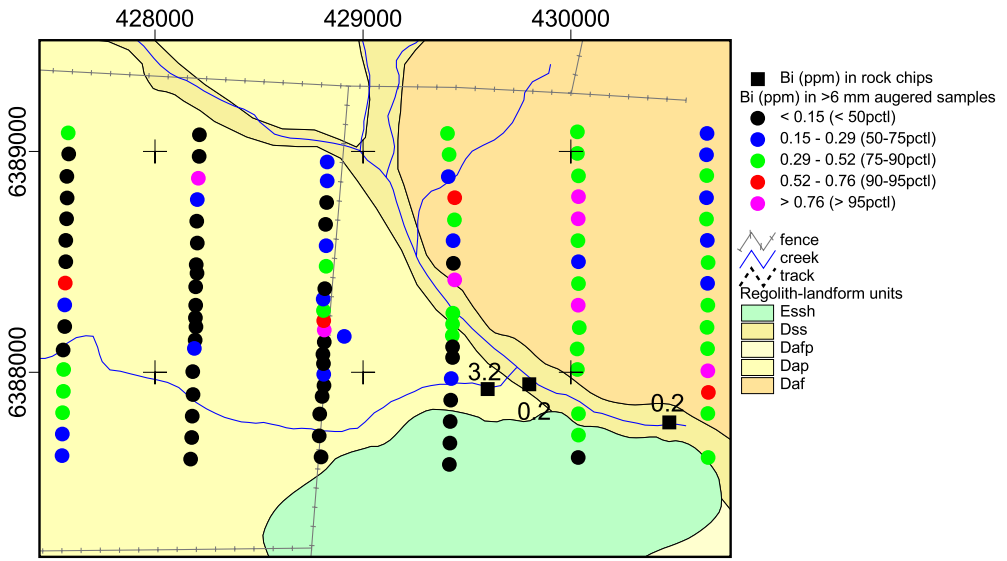


Figure A3.4.7. Distribution of Bi (ppm) in augered and rock chip samples

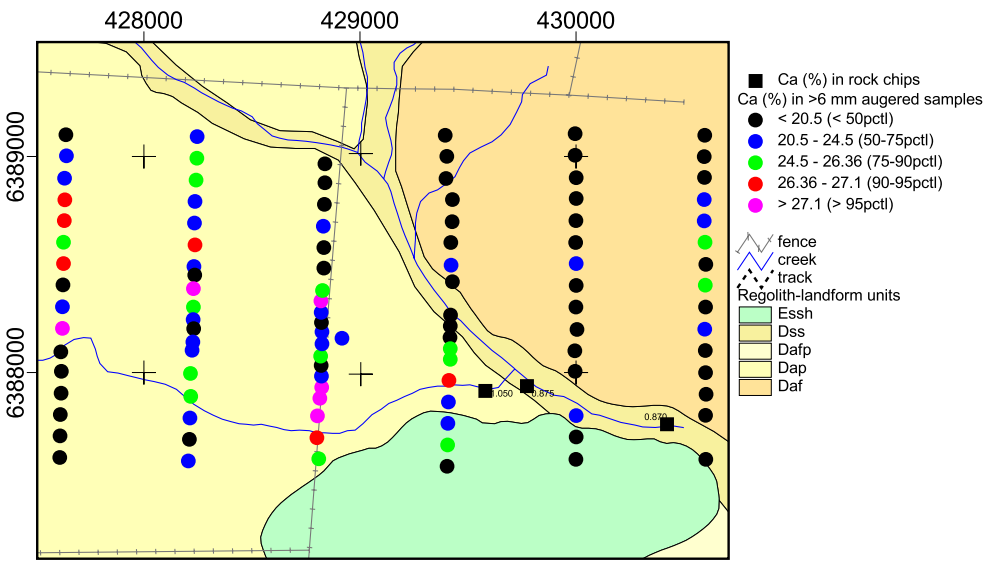


Figure A3.4.8. Distribution of Ca (%) in augered and rock chip samples

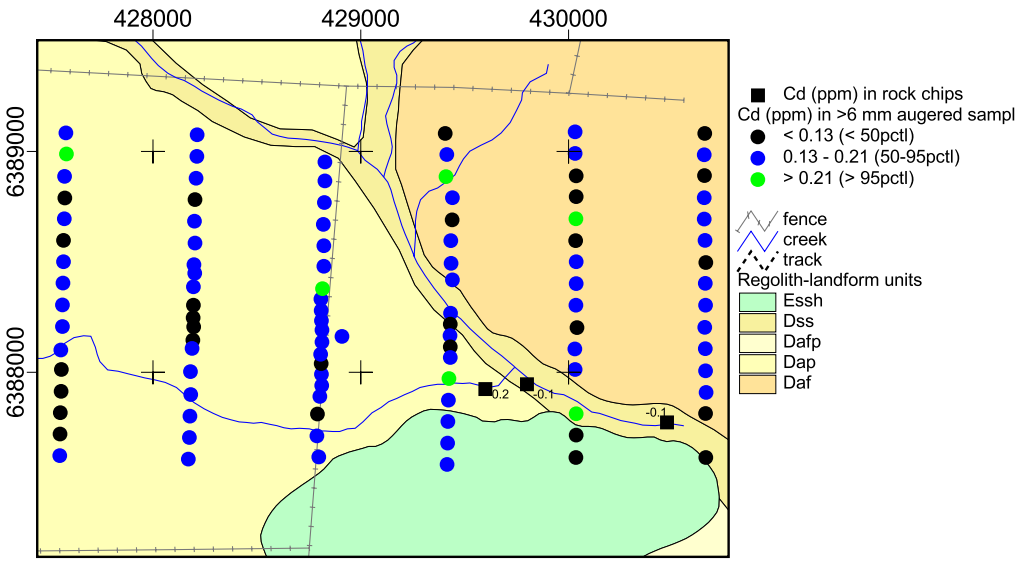


Figure A3.4.9. Distribution of Cd (ppm) in augered and rock chip samples

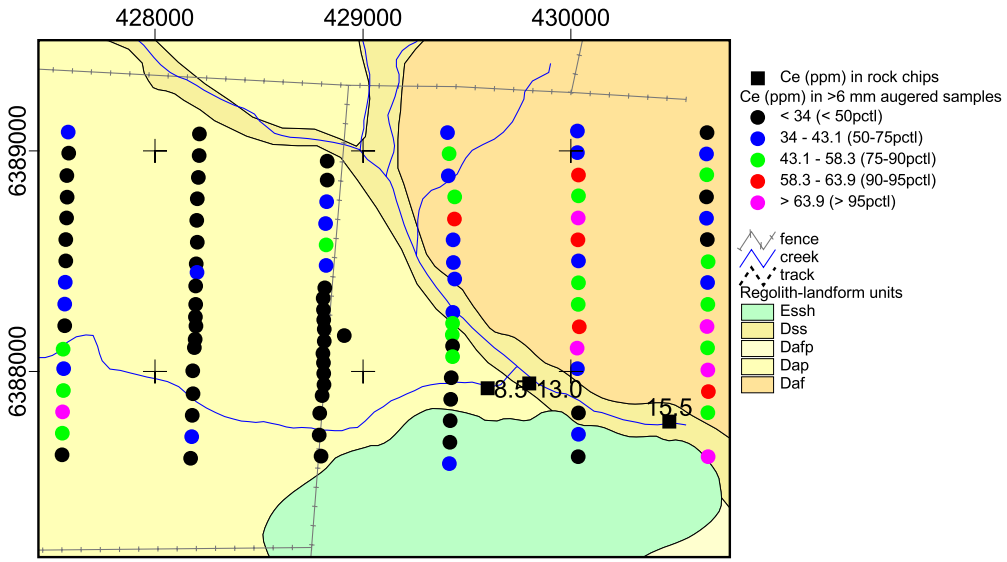


Figure A3.4.10. Distribution of Ce (ppm) in augered and rock chip samples

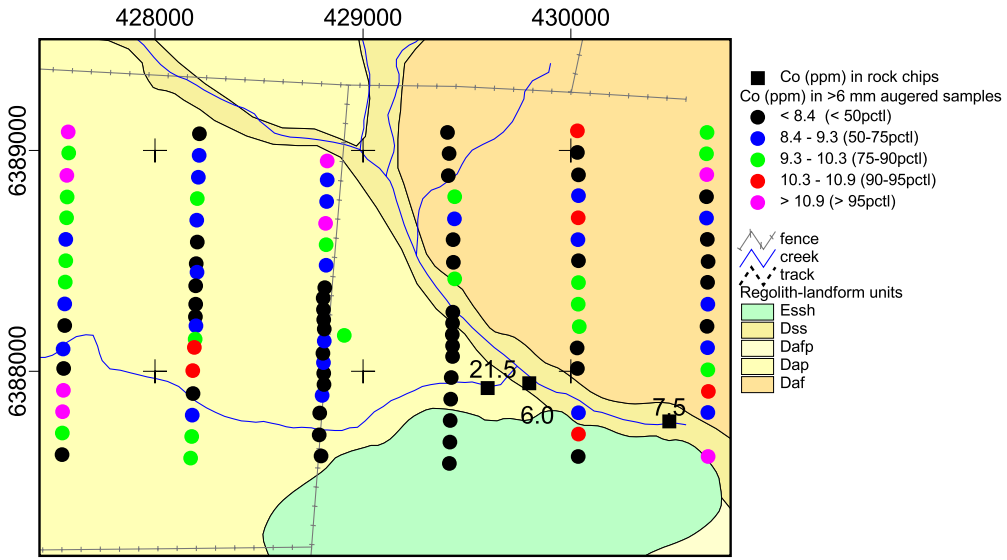


Figure A3.4.11. Distribution of Co (ppm) in augered and rock chip samples

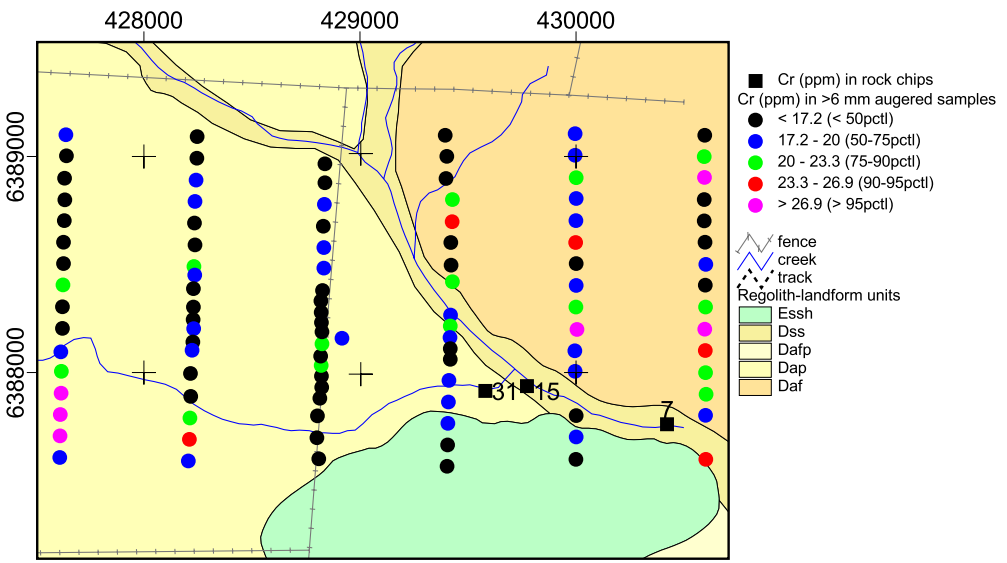


Figure A3.4.12. Distribution of Cr (ppm) in augered and rock chip samples

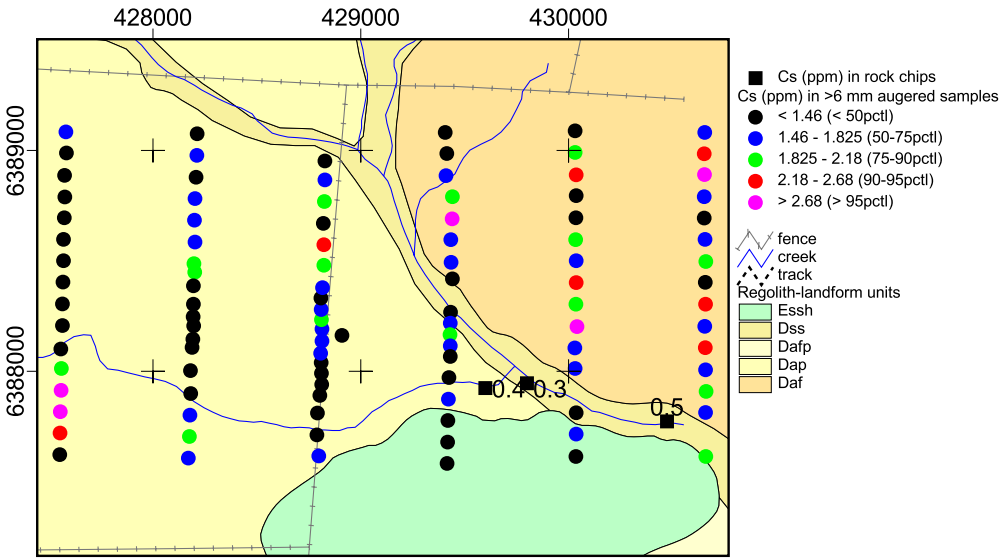


Figure A3.4.13. Distribution of Cs (ppm) in augered and rock chip samples

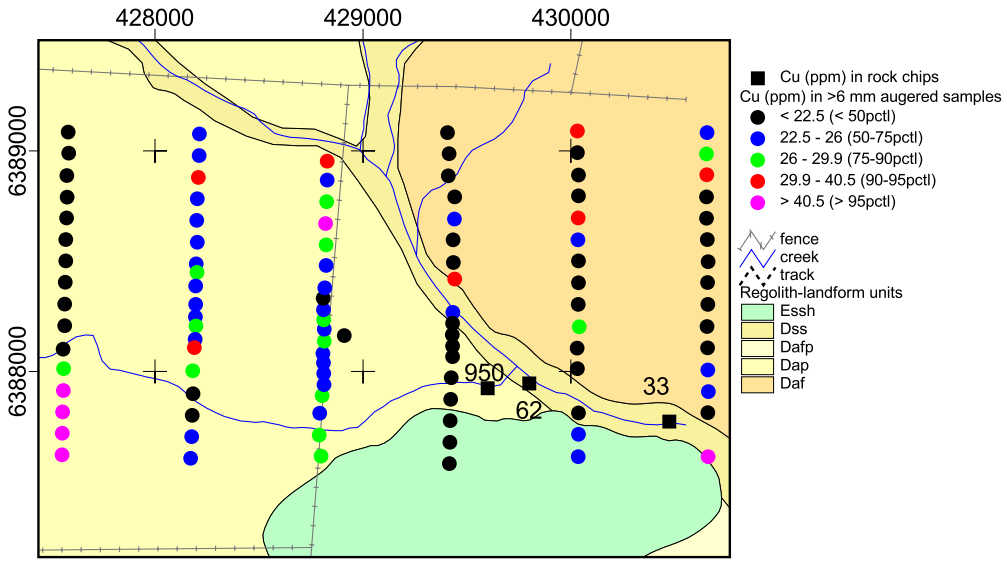


Figure A3.4.14. Distribution of Cu (ppm) in augered and rock chip samples

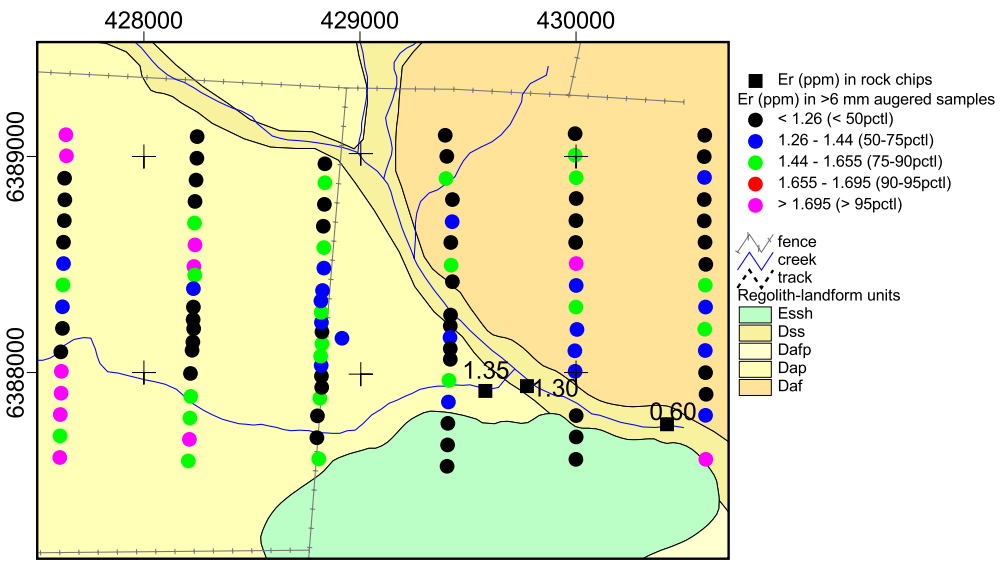


Figure A3.4.16. Distribution of Er (ppm) in augered and rock chip samples

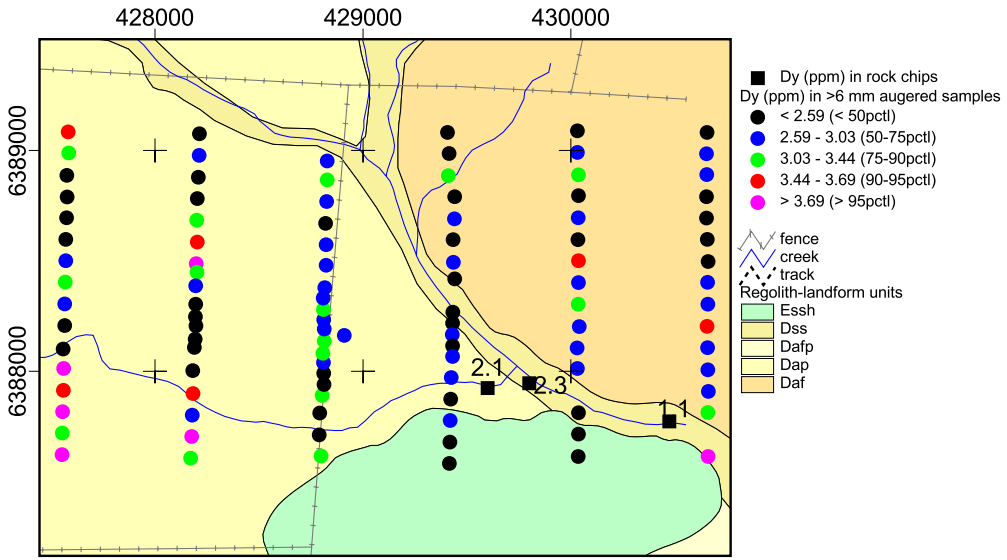


Figure A3.4.15. Distribution of Dy (ppm) in augered and rock chip samples

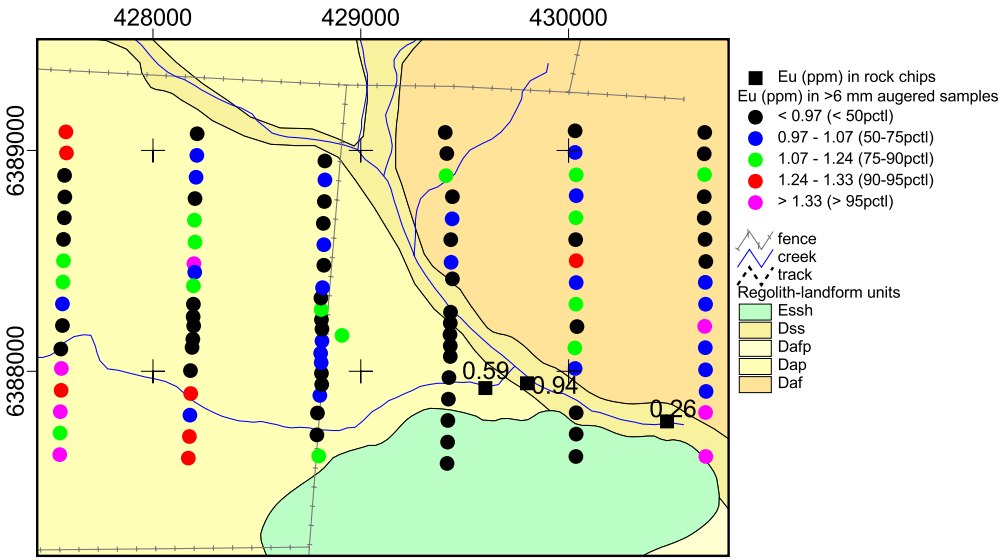


Figure A3.4.17. Distribution of Eu (ppm) in augered and rock chip samples

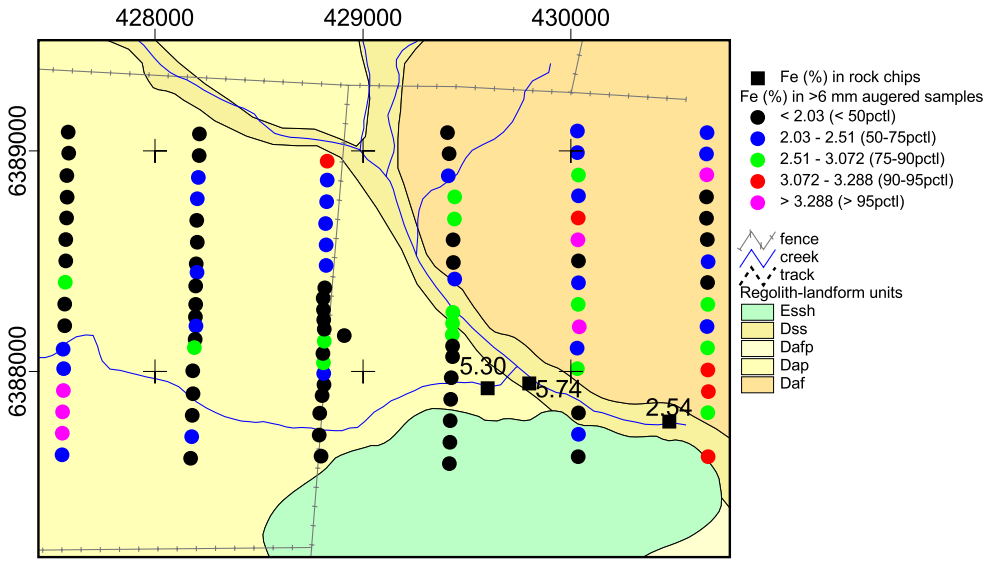


Figure A3.4.18. Distribution of Fe (%) in augered and rock chip samples

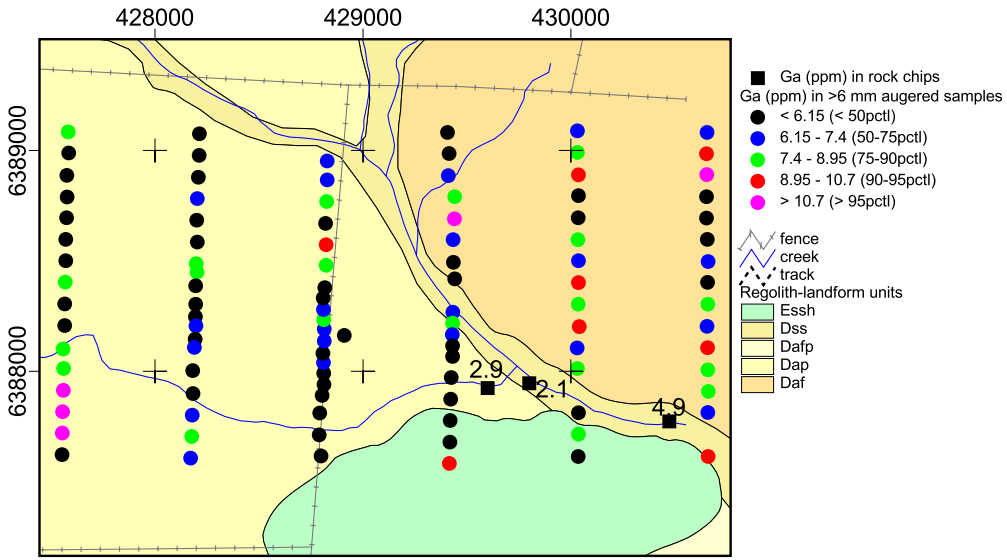


Figure A3.4.19. Distribution of Ga (ppm) in augered and rock chip samples

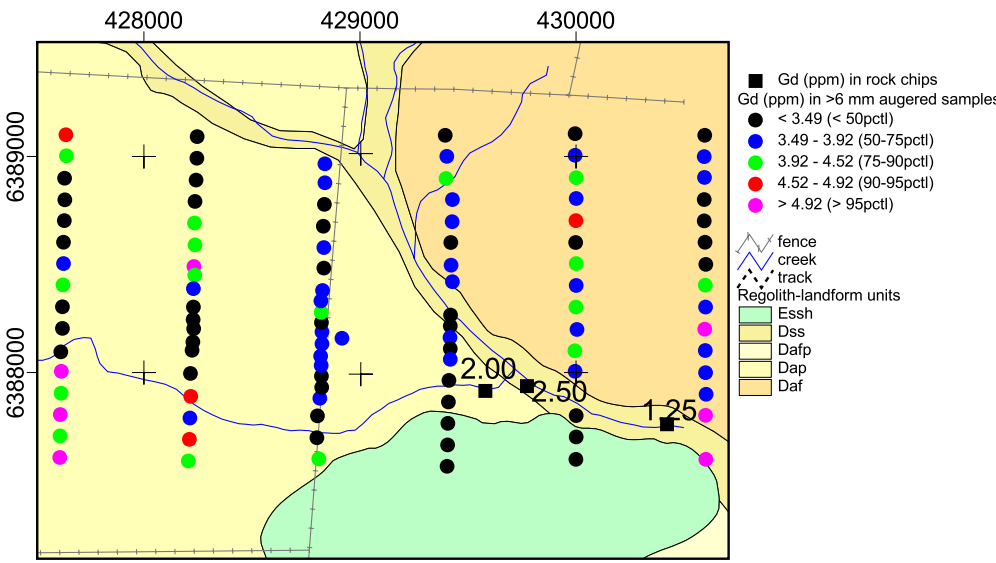


Figure A3.4.20. Distribution of Gd (ppm) in augered and rock chip samples

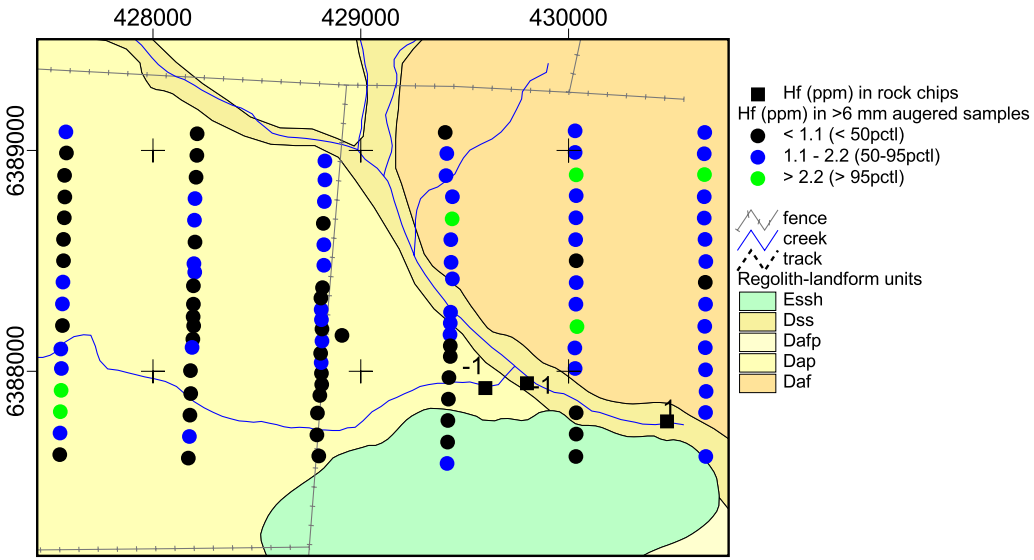


Figure A3.4.21. Distribution of Hf (ppm) in augered and rock chip samples

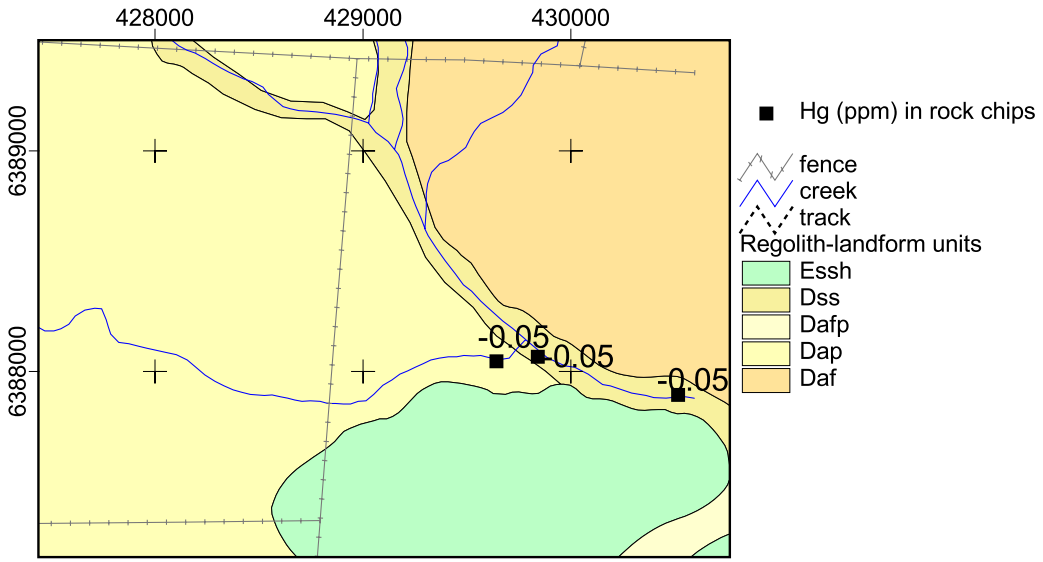


Figure A3.4.22. Distribution of Hg (ppm) in augered and rock chip samples

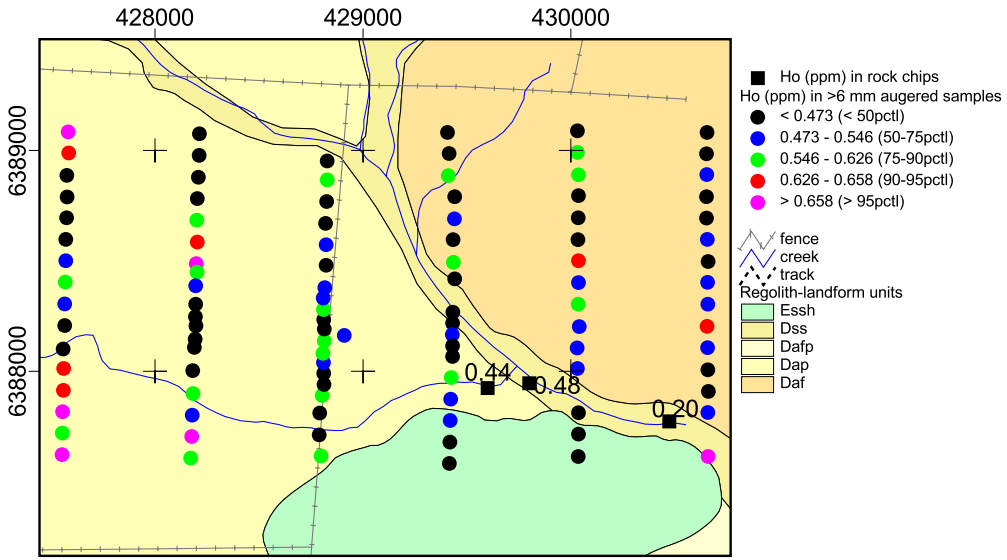


Figure A3.4.23. Distribution of Ho (ppm) in augered and rock chip samples

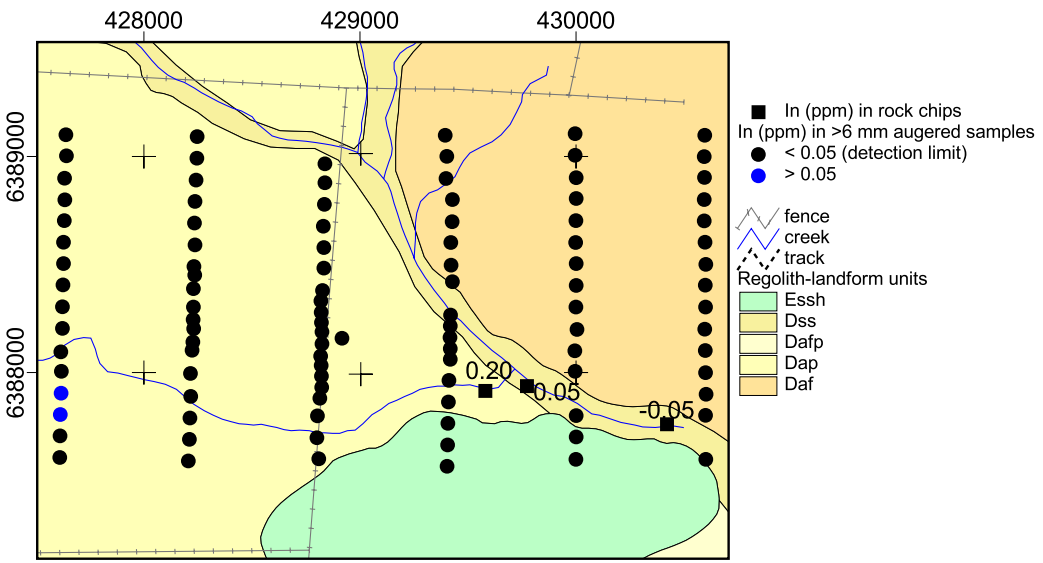


Figure A3.4.24. Distribution of In (ppm) in augered and rock chip samples

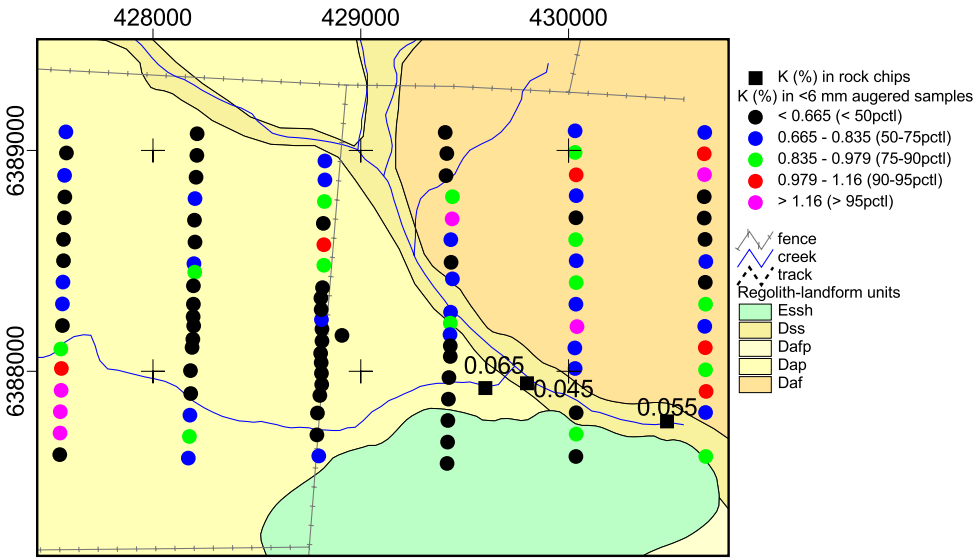


Figure A3.4.25. Distribution of K (%) in augered and rock chip samples

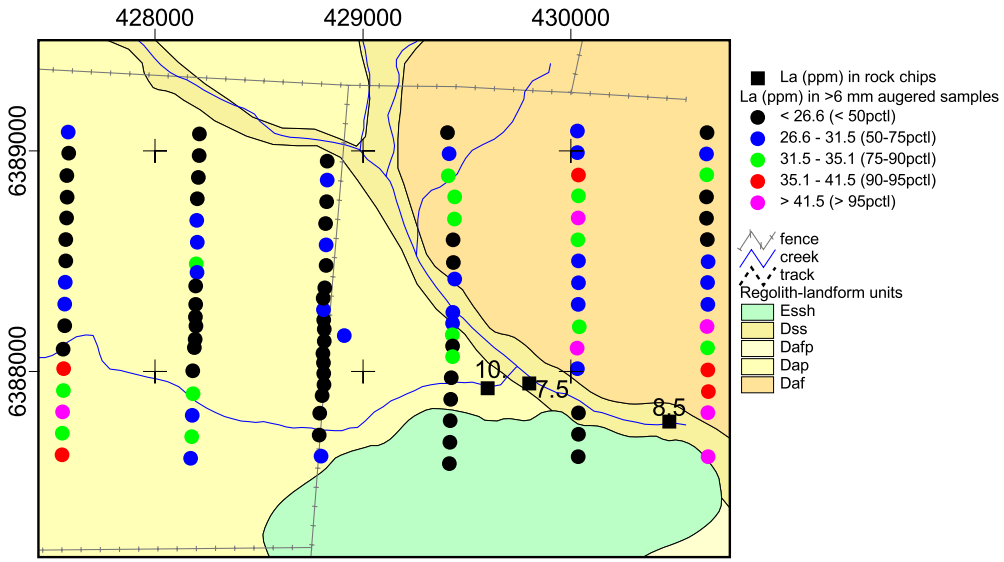


Figure A3.4.26. Distribution of La (ppm) in augered and rock chip samples

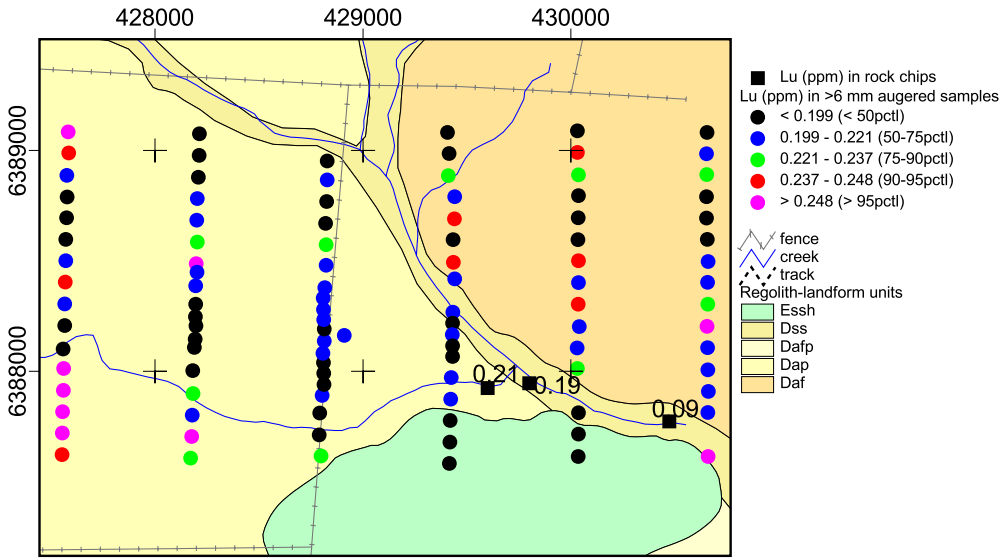


Figure A3.4.27. Distribution of Lu (ppm) in augered and rock chip samples

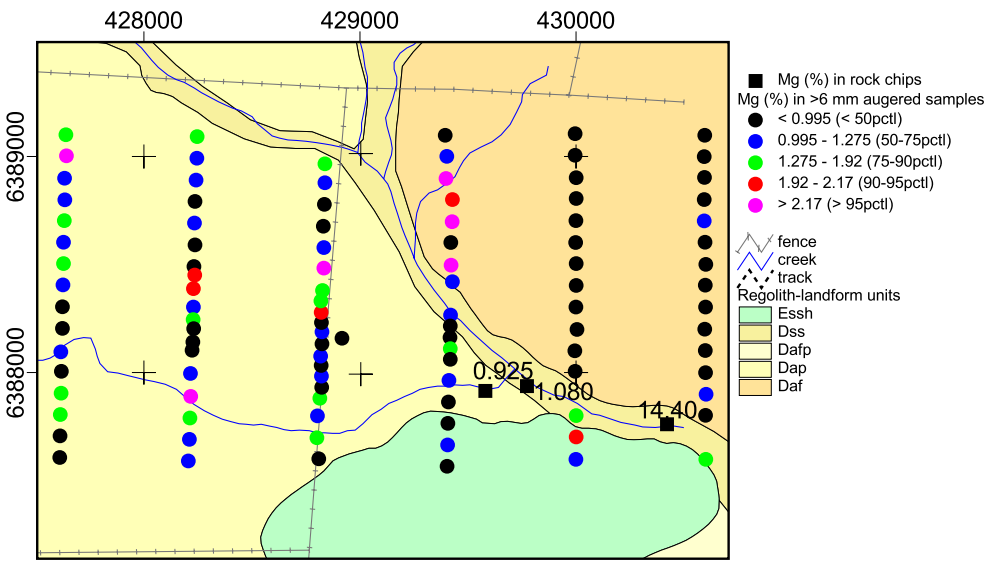


Figure A3.4.28. Distribution of Mg (%) in augered and rock chip samples

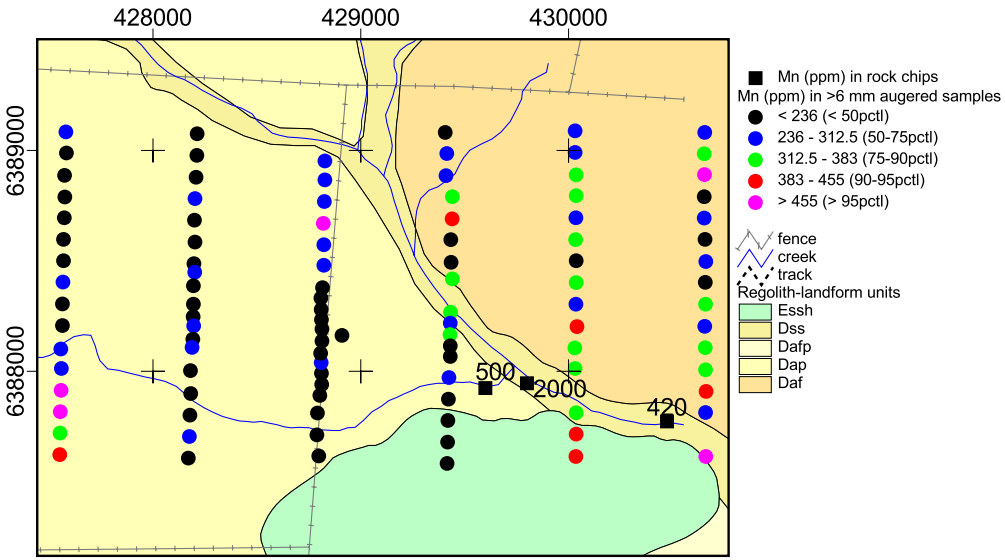


Figure A3.4.29. Distribution of Mn (ppm) in augered and rock chip samples

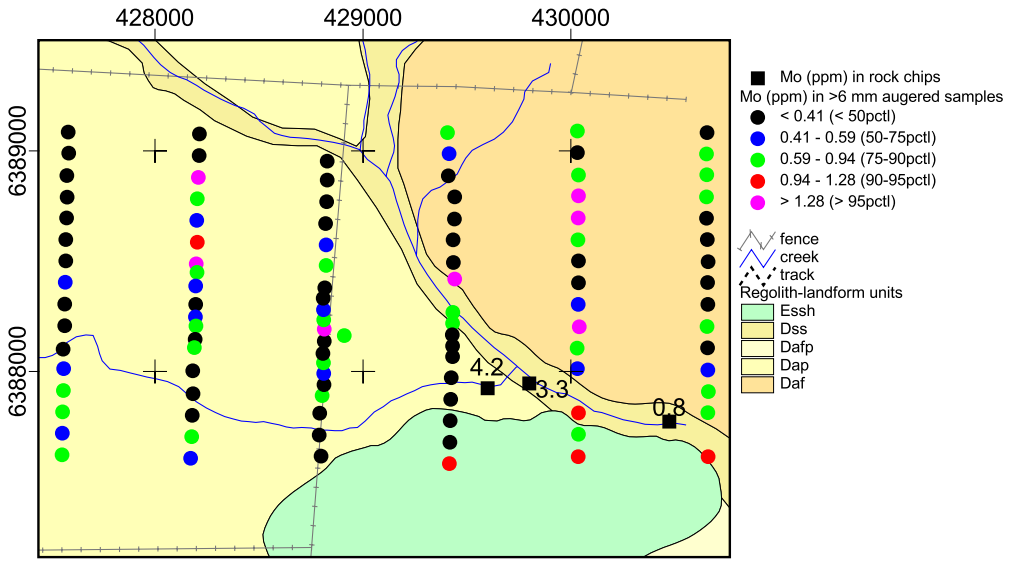


Figure A3.4.30. Distribution of Mo (ppm) in augered and rock chip samples

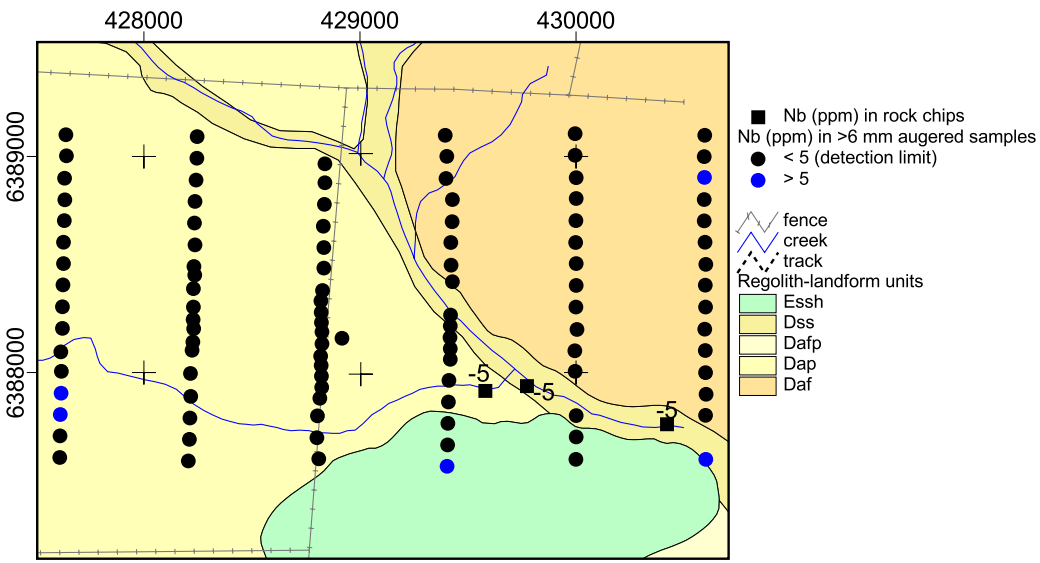


Figure A3.4.32. Distribution of Nb (ppm) in augered and rock chip samples

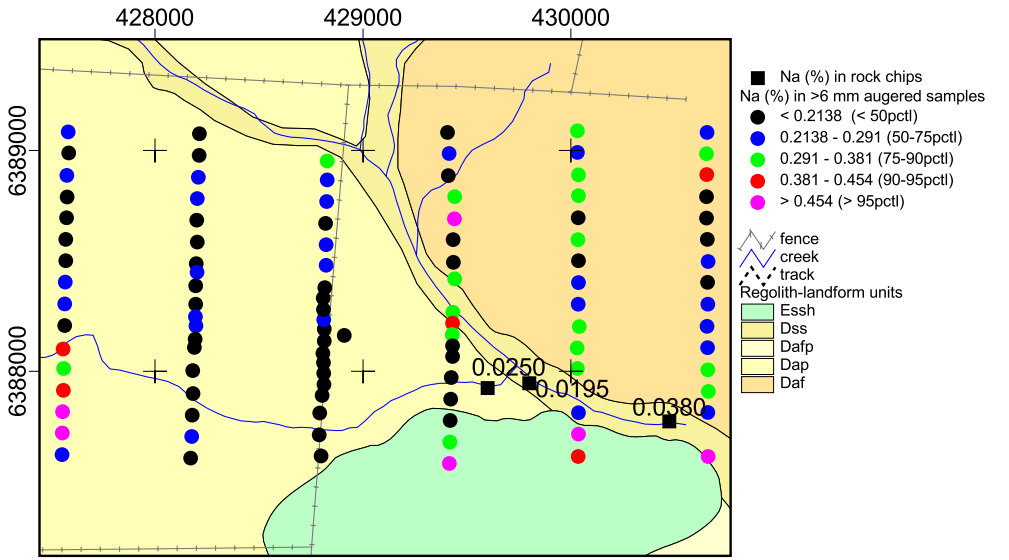


Figure A3.4.31. Distribution of Na (%) in augered and rock chip samples

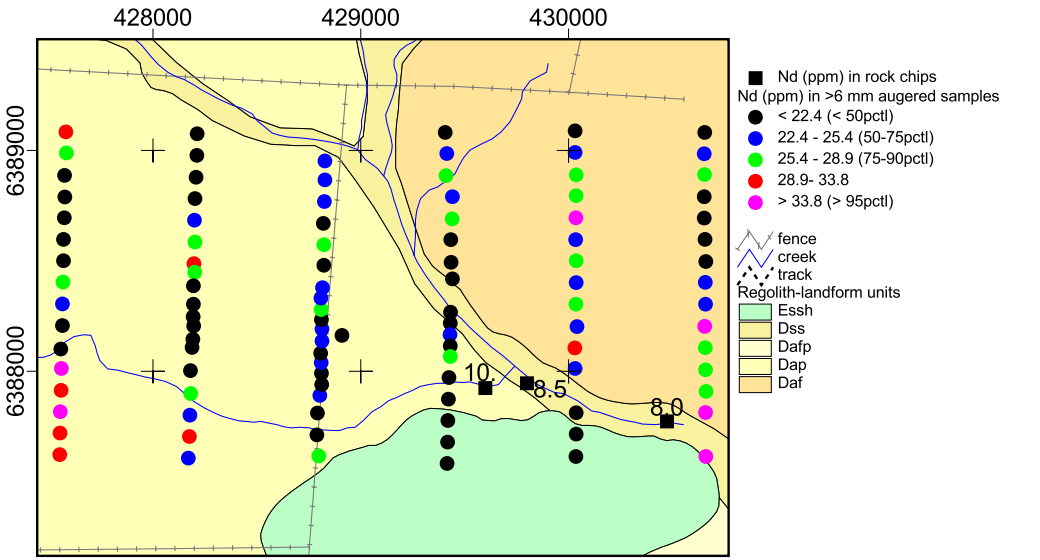


Figure A3.4.33. Distribution of Nd (ppm) in augered and rock chip samples

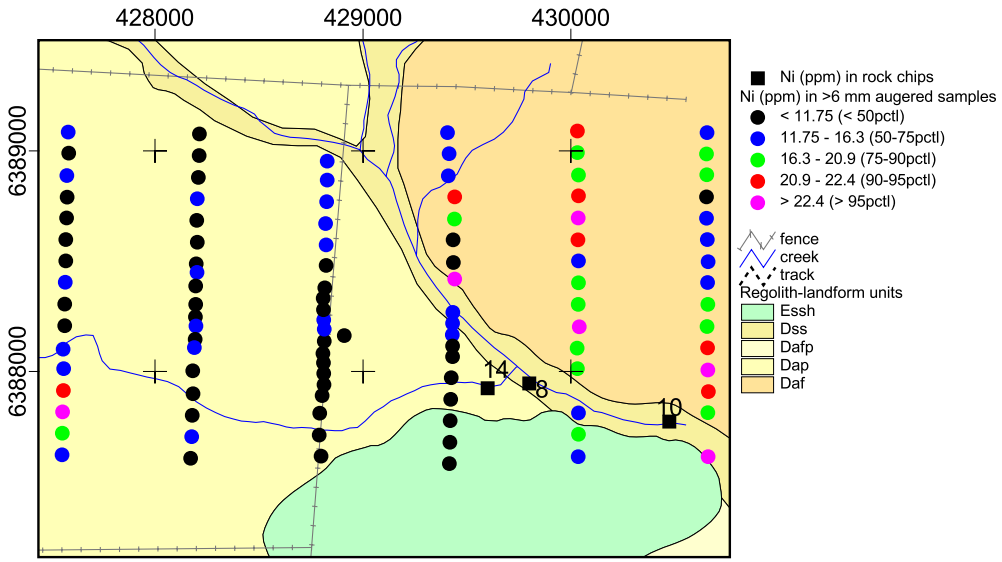


Figure A3.4.34. Distribution of Ni (ppm) in augered and rock chip samples

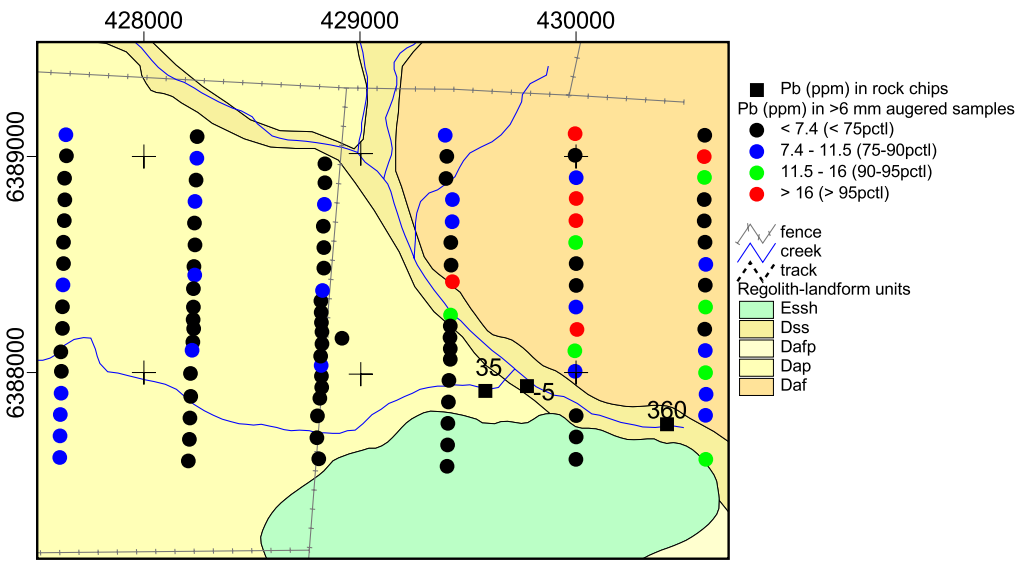


Figure A3.4.36. Distribution of Pb (ppm) in augered and rock chip samples

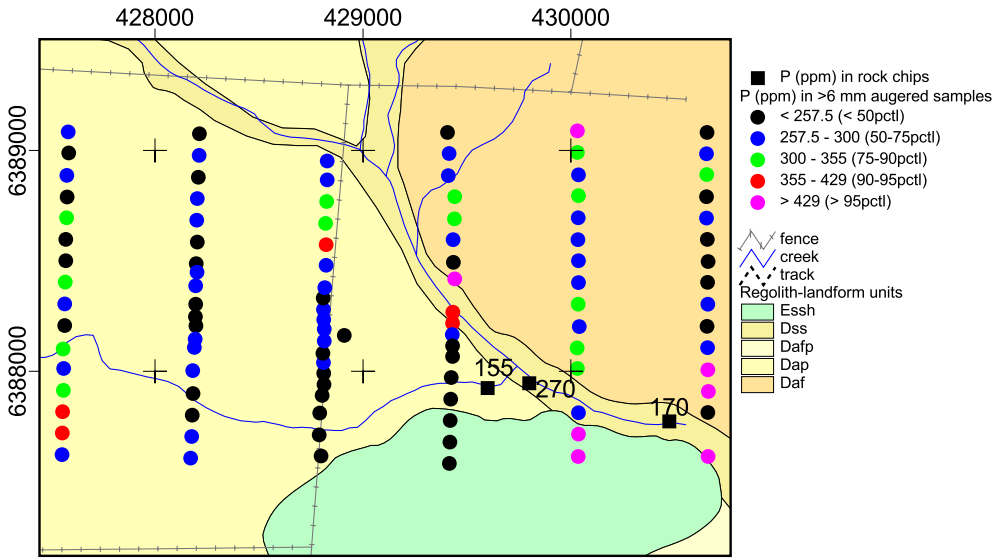


Figure A3.4.35. Distribution of P (ppm) in augered and rock chip samples

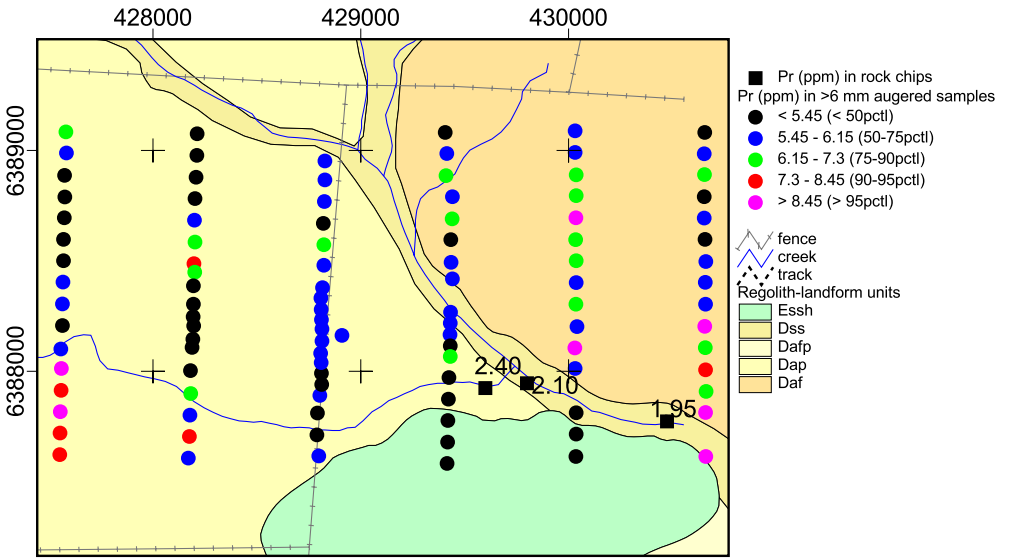


Figure A3.4.37. Distribution of Pr (ppm) in augered and rock chip samples

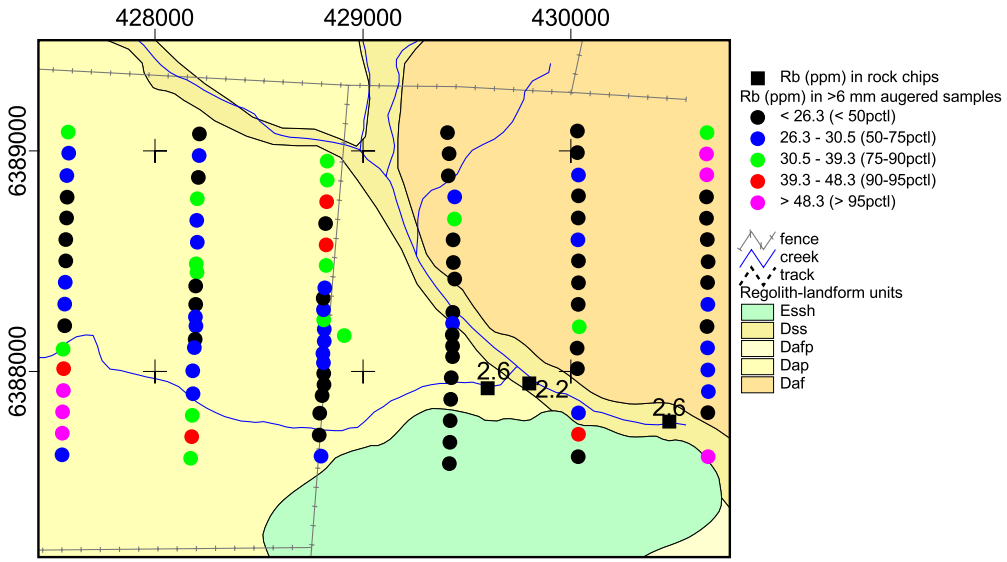


Figure A3.4.38. Distribution of Rb (ppm) in augered and rock chip samples

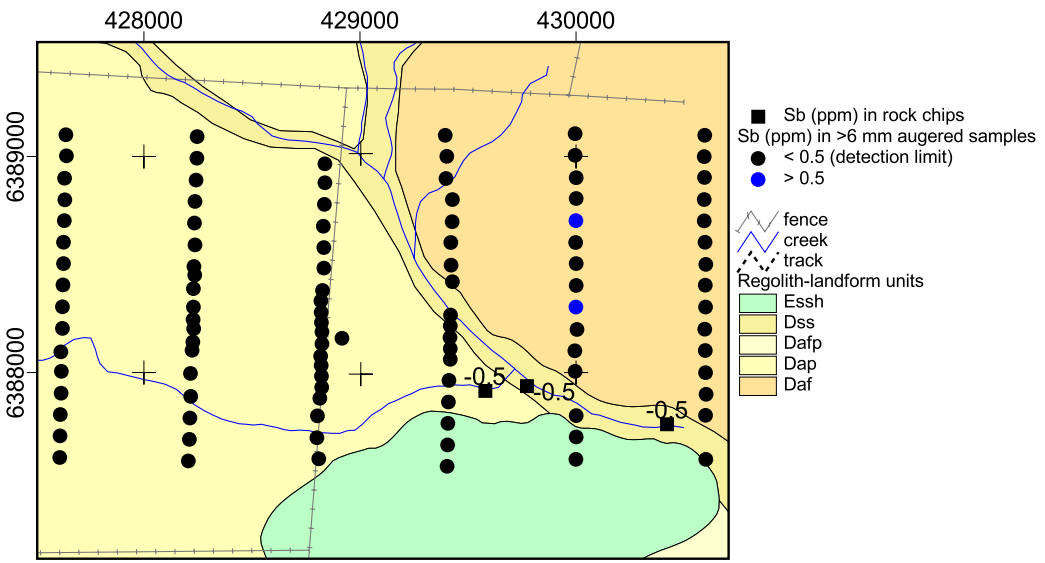


Figure A3.4.40. Distribution of Sb (ppm) in augered and rock chip samples

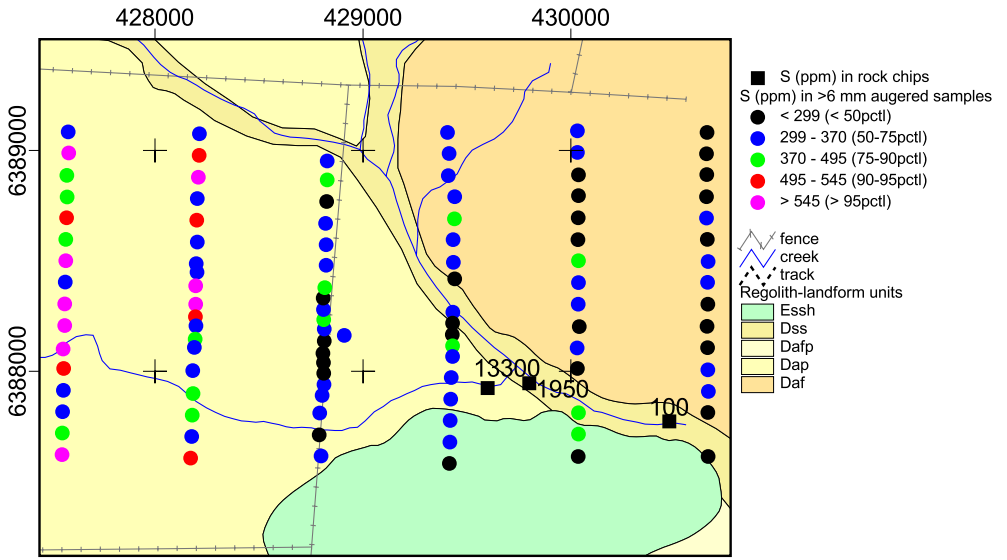


Figure A3.4.39. Distribution of S (ppm) in augered and rock chip samples

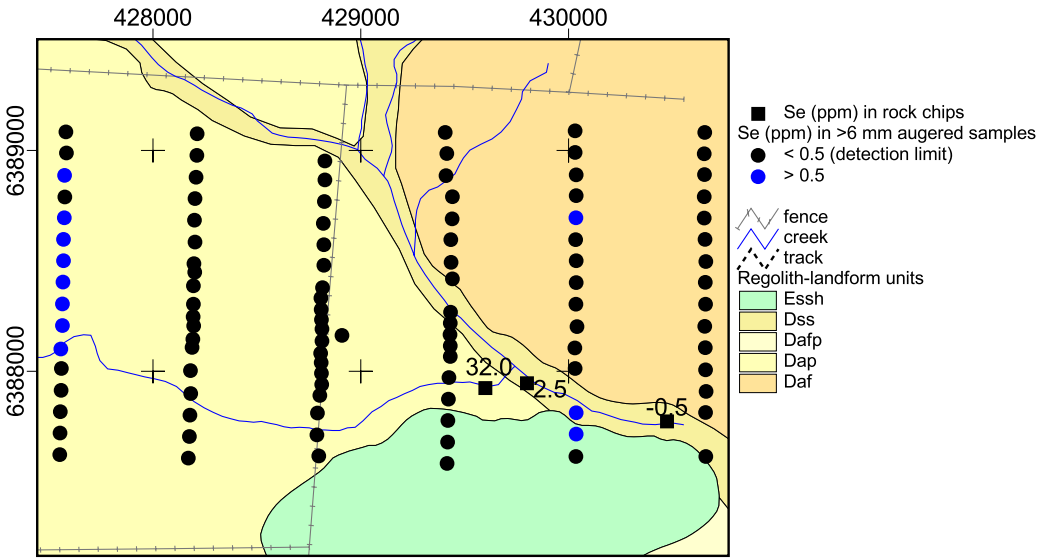


Figure A3.4.41. Distribution of Se (ppm) in augered and rock chip samples

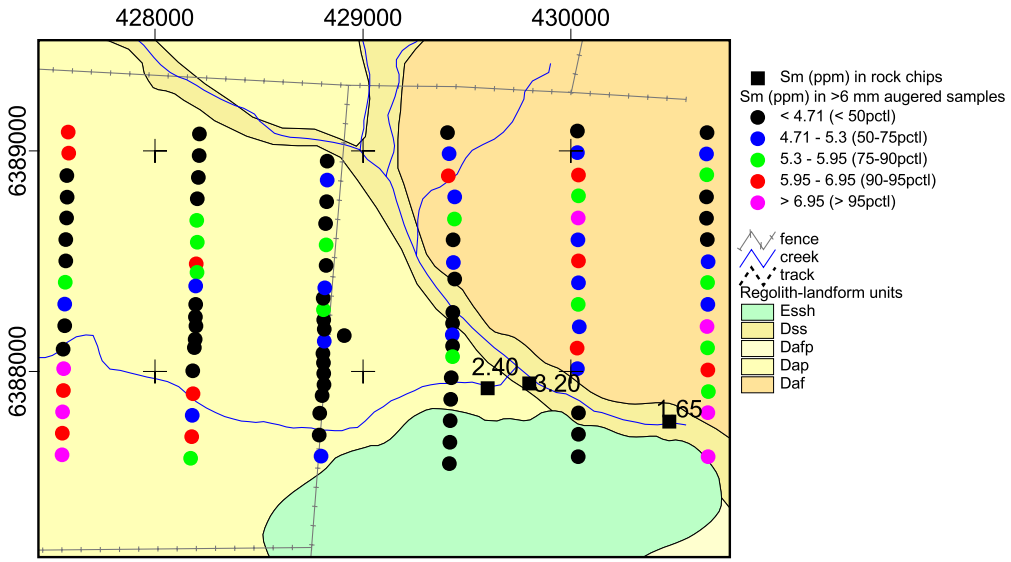


Figure A3.4.42. Distribution of Sm (ppm) in augered and rock chip samples

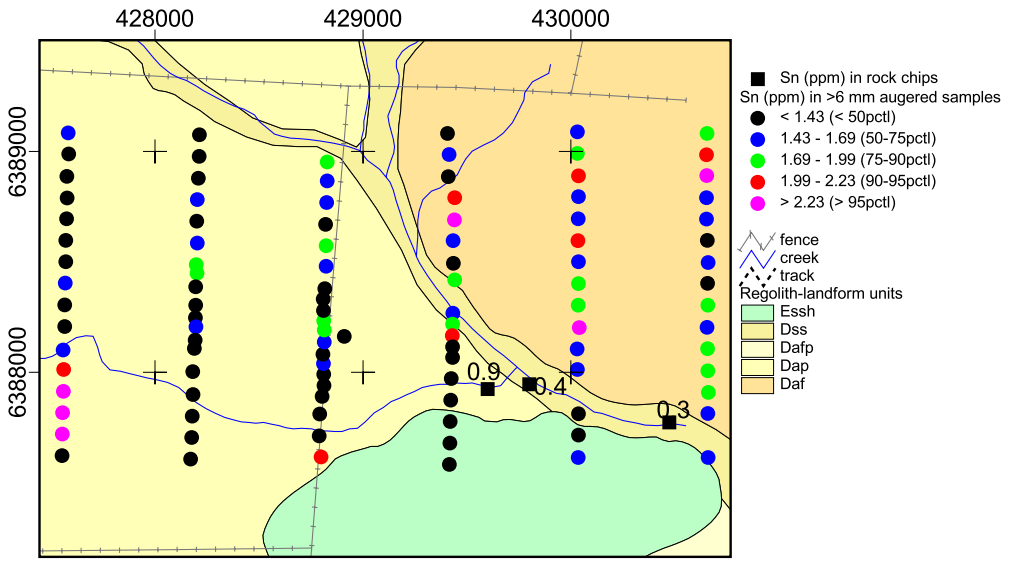


Figure A3.4.43. Distribution of Sn (ppm) in augered and rock chip samples

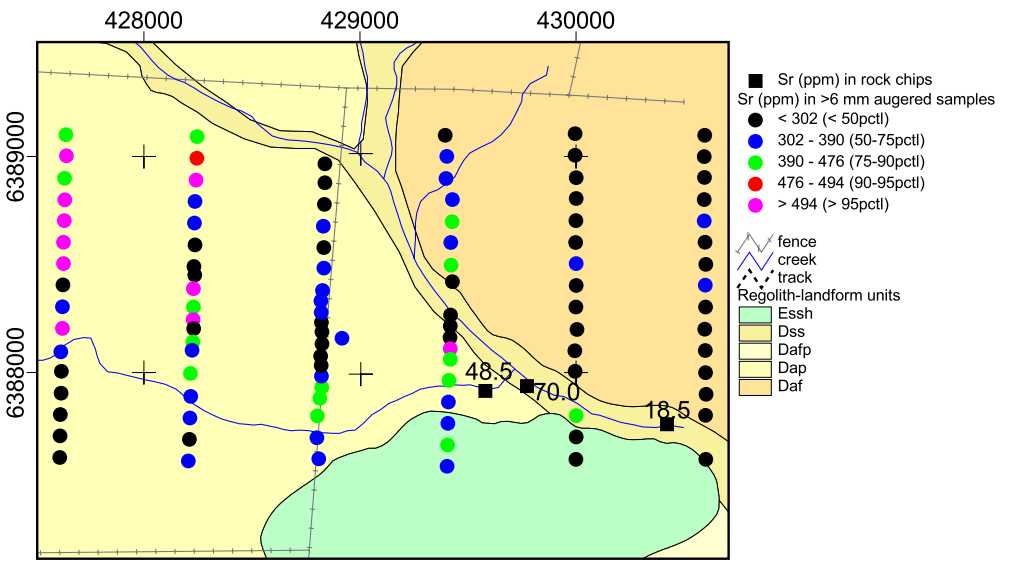


Figure A3.4.44. Distribution of Sr (ppm) in augered and rock chip samples

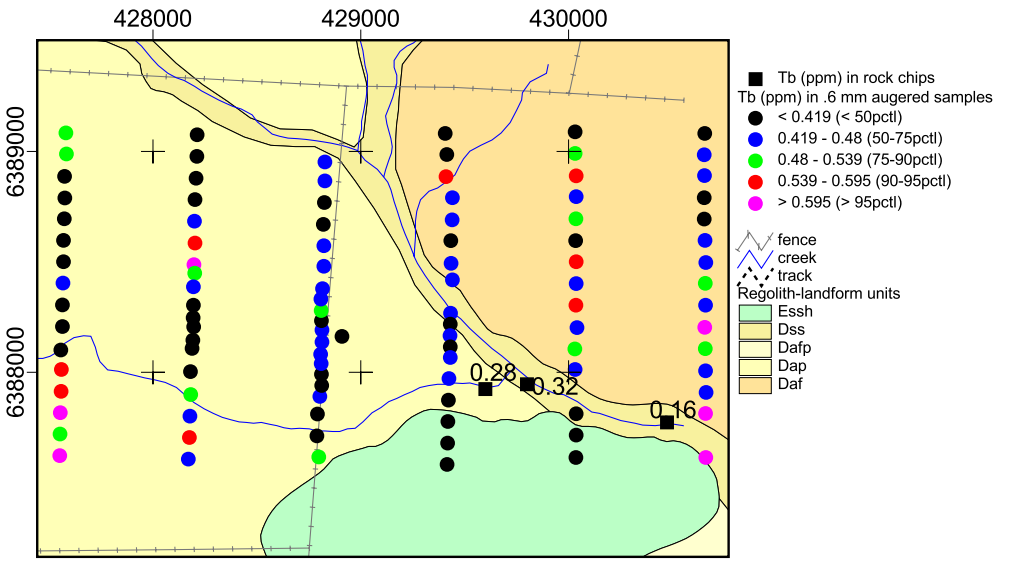


Figure A3.4.45. Distribution of Tb (ppm) in augered and rock chip samples

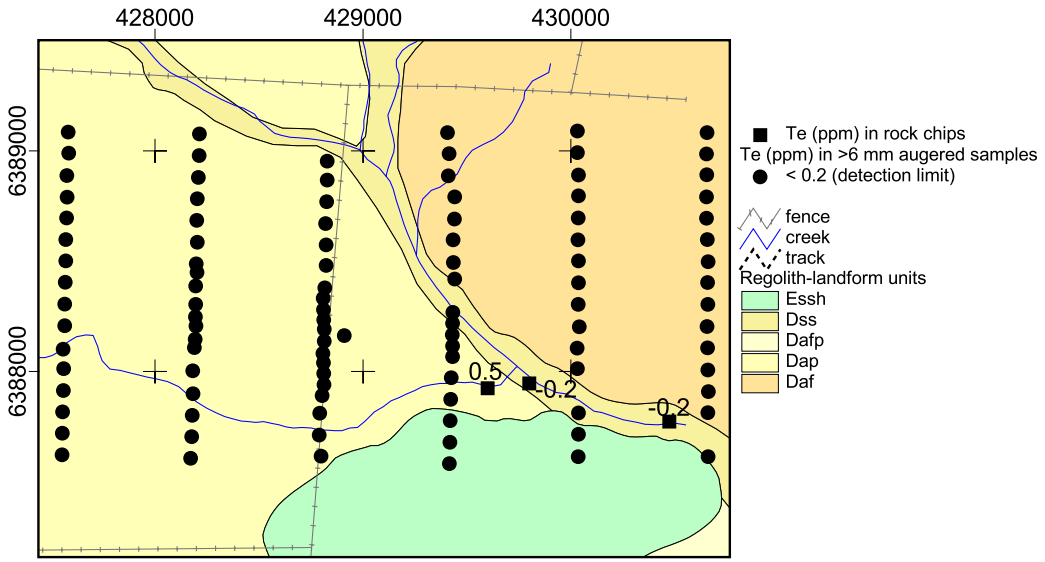


Figure A3.4.46. Distribution of Te (ppm) in augered and rock chip samples

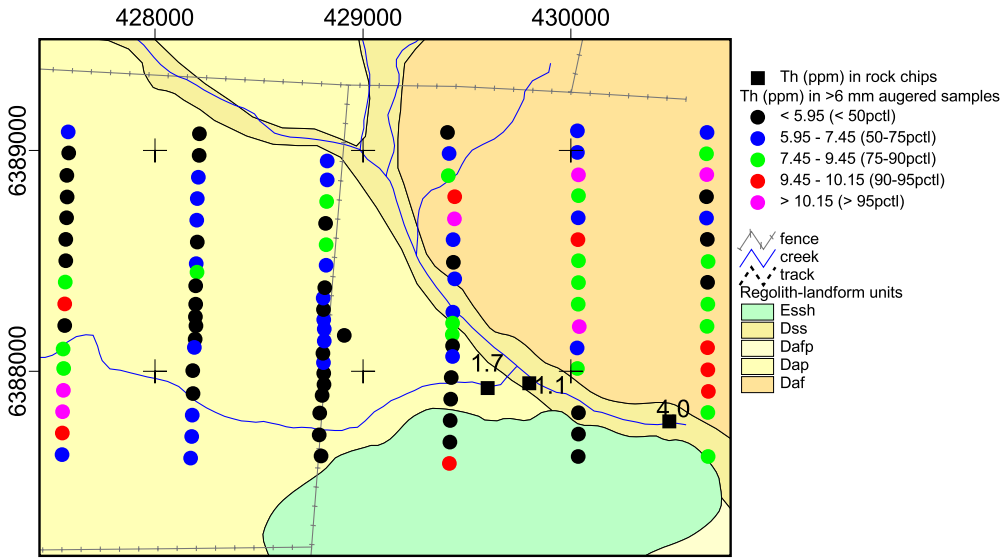


Figure A3.4.47. Distribution of Th (ppm) in augered and rock chip samples

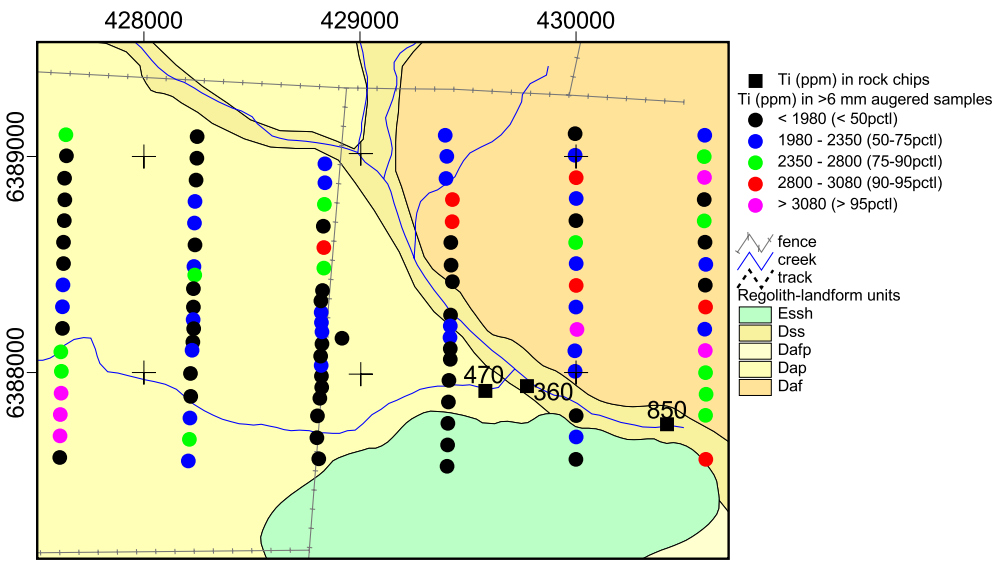


Figure A3.4.48. Distribution of Ti (ppm) in augered and rock chip samples

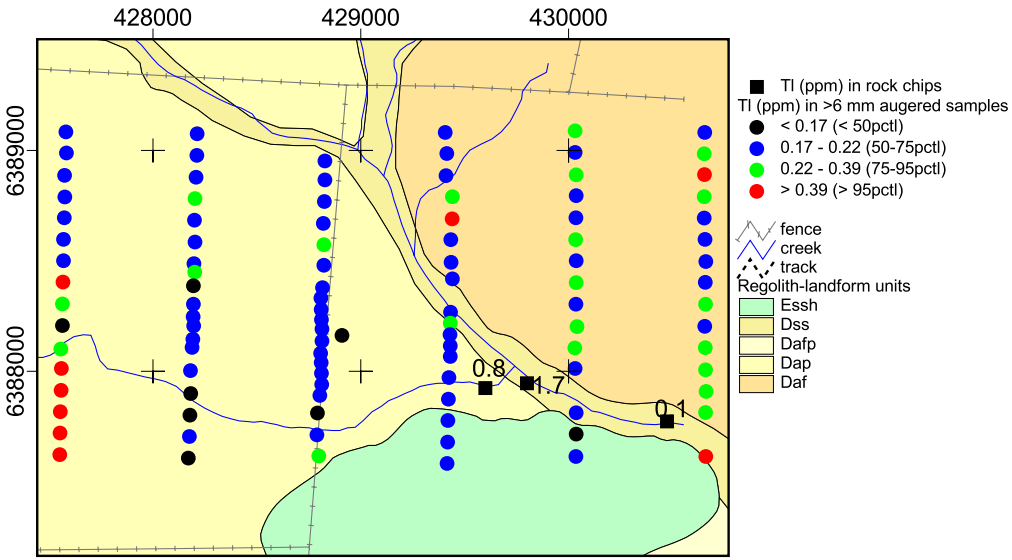


Figure A3.4.49. Distribution of Tl (ppm) in augered and rock chip samples

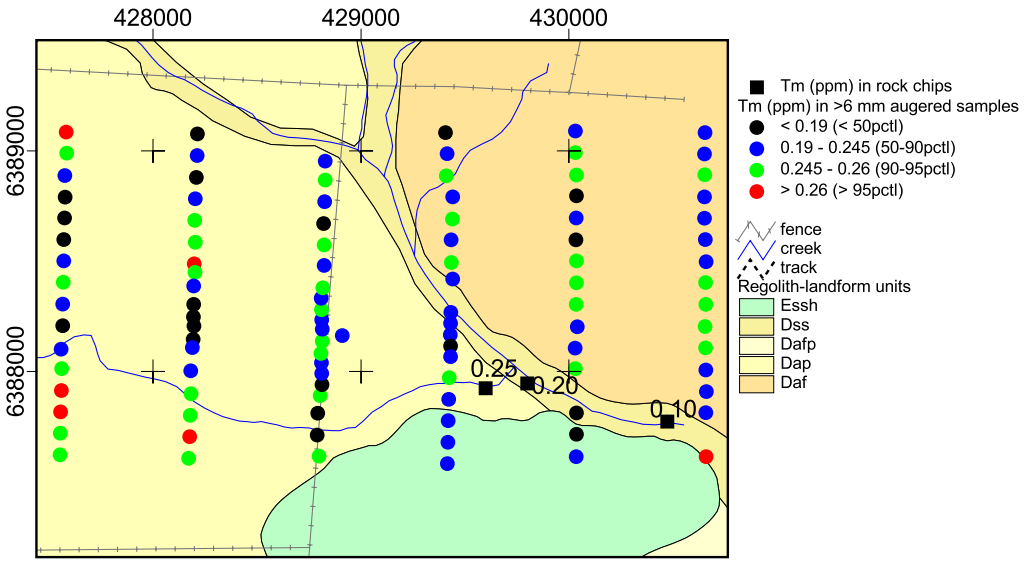


Figure A3.4.50. Distribution of Tm (ppm) in augered and rock chip samples

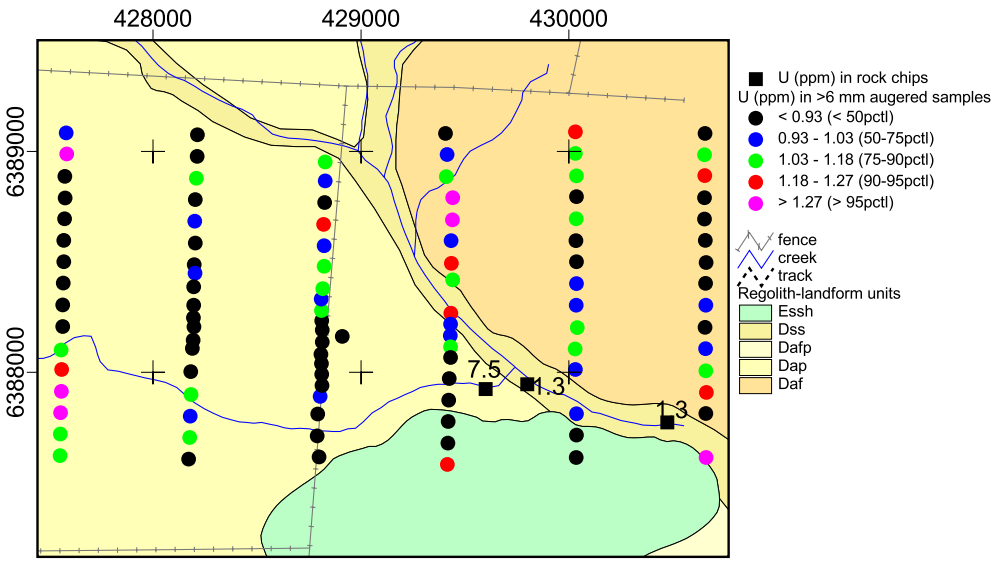


Figure A3.4.51. Distribution of U (ppm) in augered and rock chip samples

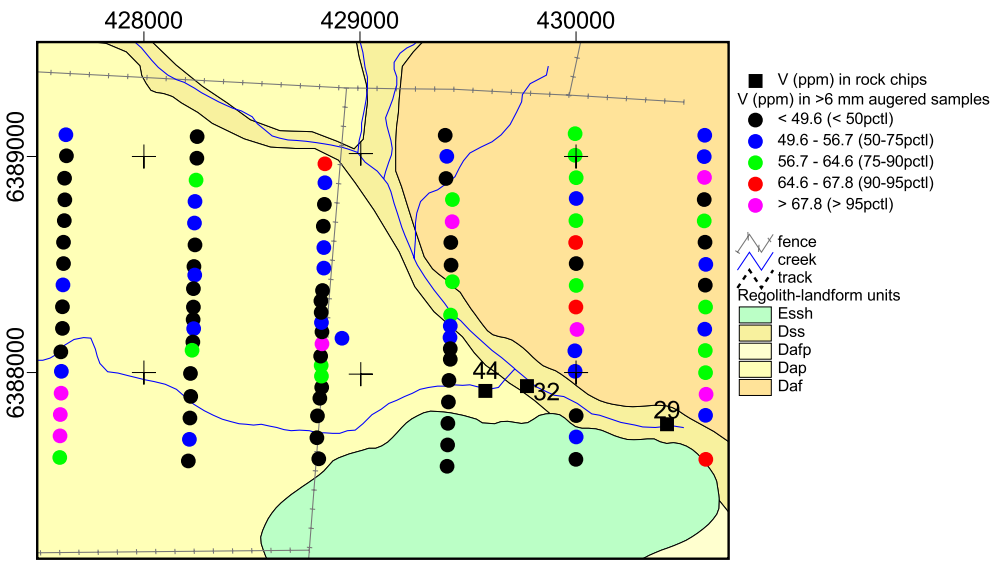


Figure A3.4.52. Distribution of V (ppm) in augered and rock chip samples

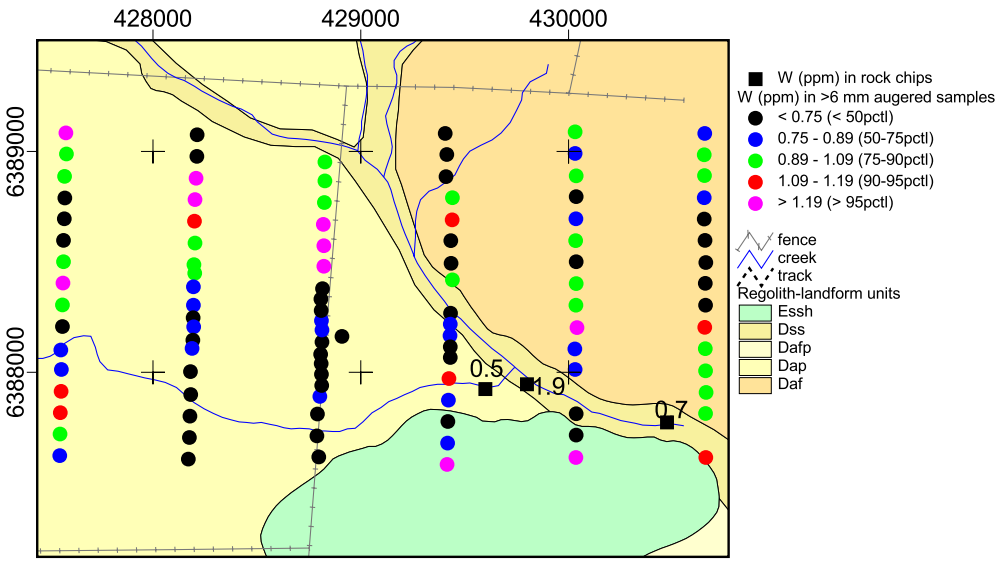


Figure A3.4.53. Distribution of W (ppm) in augered and rock chip samples

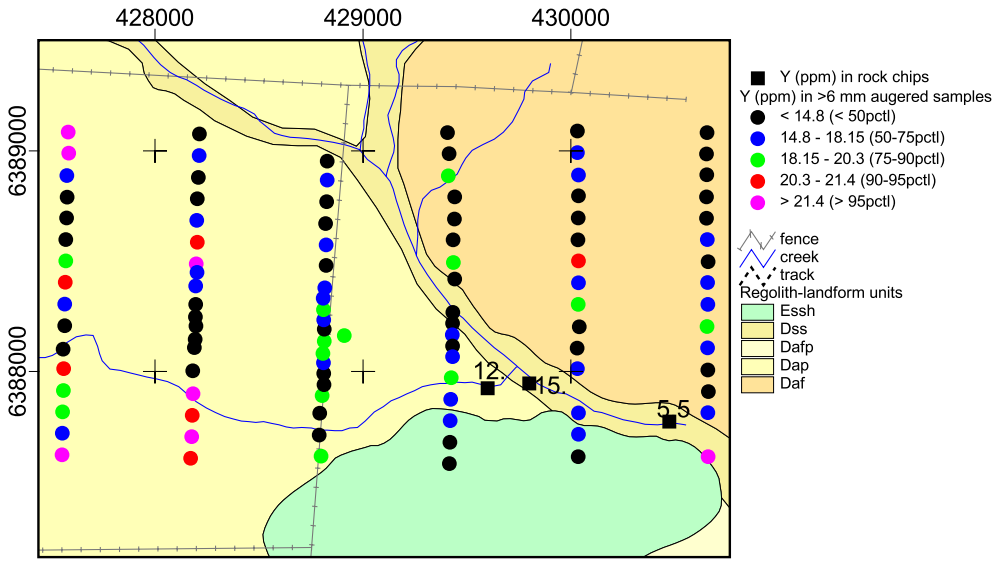


Figure A3.4.54. Distribution of Y (ppm) in augered and rock chip samples

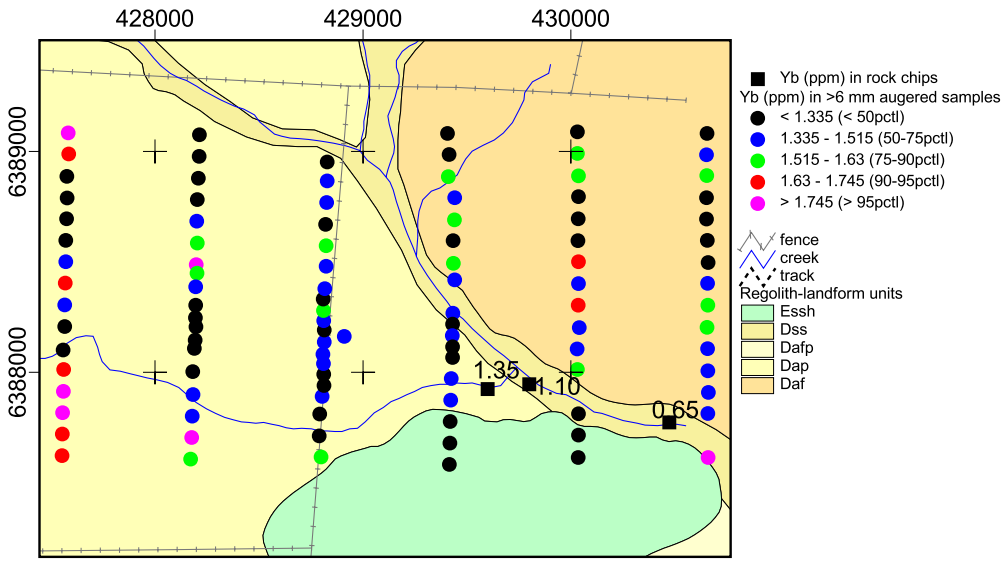


Figure A3.4.55. Distribution of Yb (ppm) in augered and rock chip samples

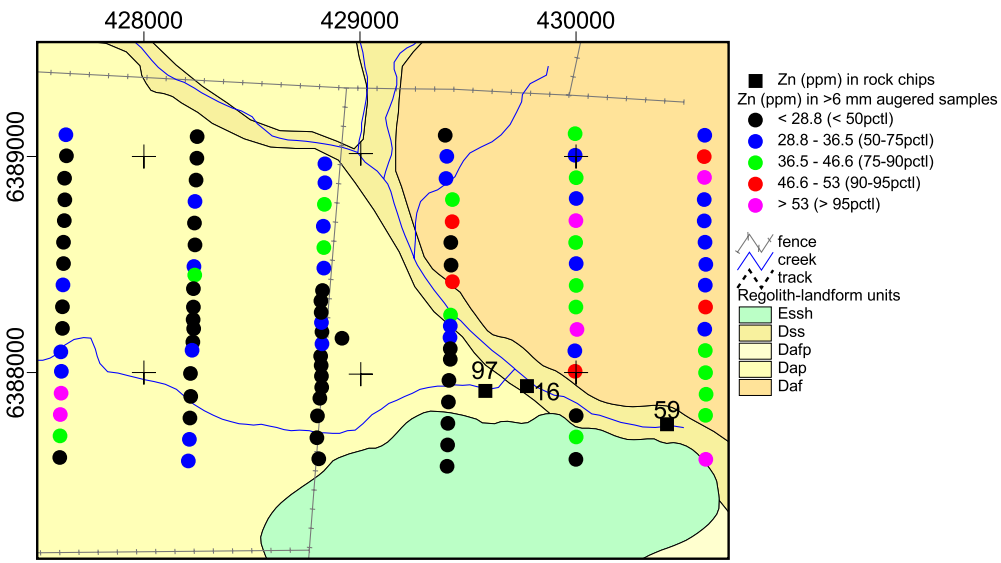


Figure A3.4.56. Distribution of Zn (ppm) in augered and rock chip samples

Appendix 3.5
Comparative plots for <6 mm and >6mm augered, soil and lag samples on 427600E and 428820E

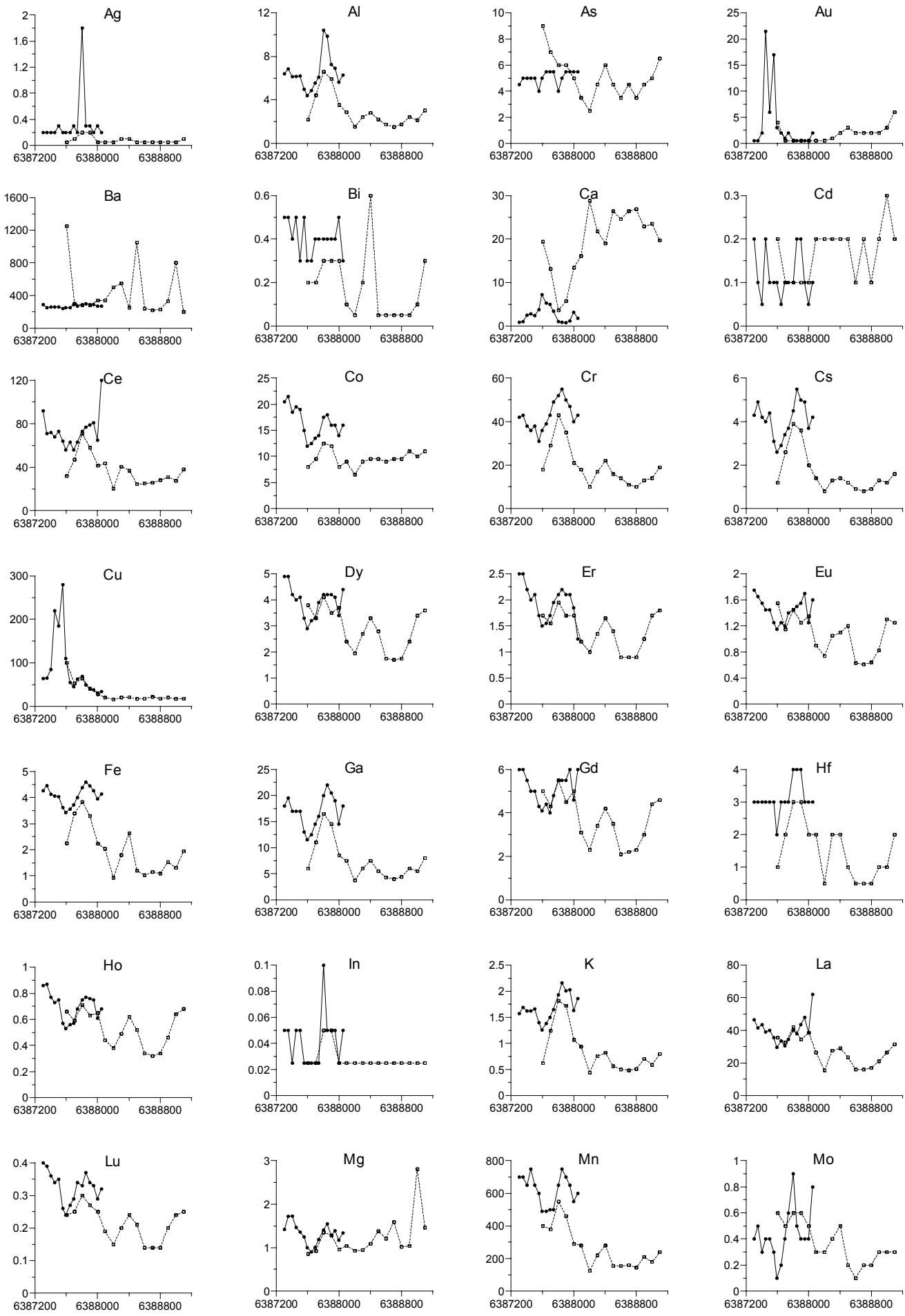


Figure A3.5a: Comparison of soil (0-10 cm) and augered sample (variable depth to 70 cm) on 427600E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm, Au in ppb.

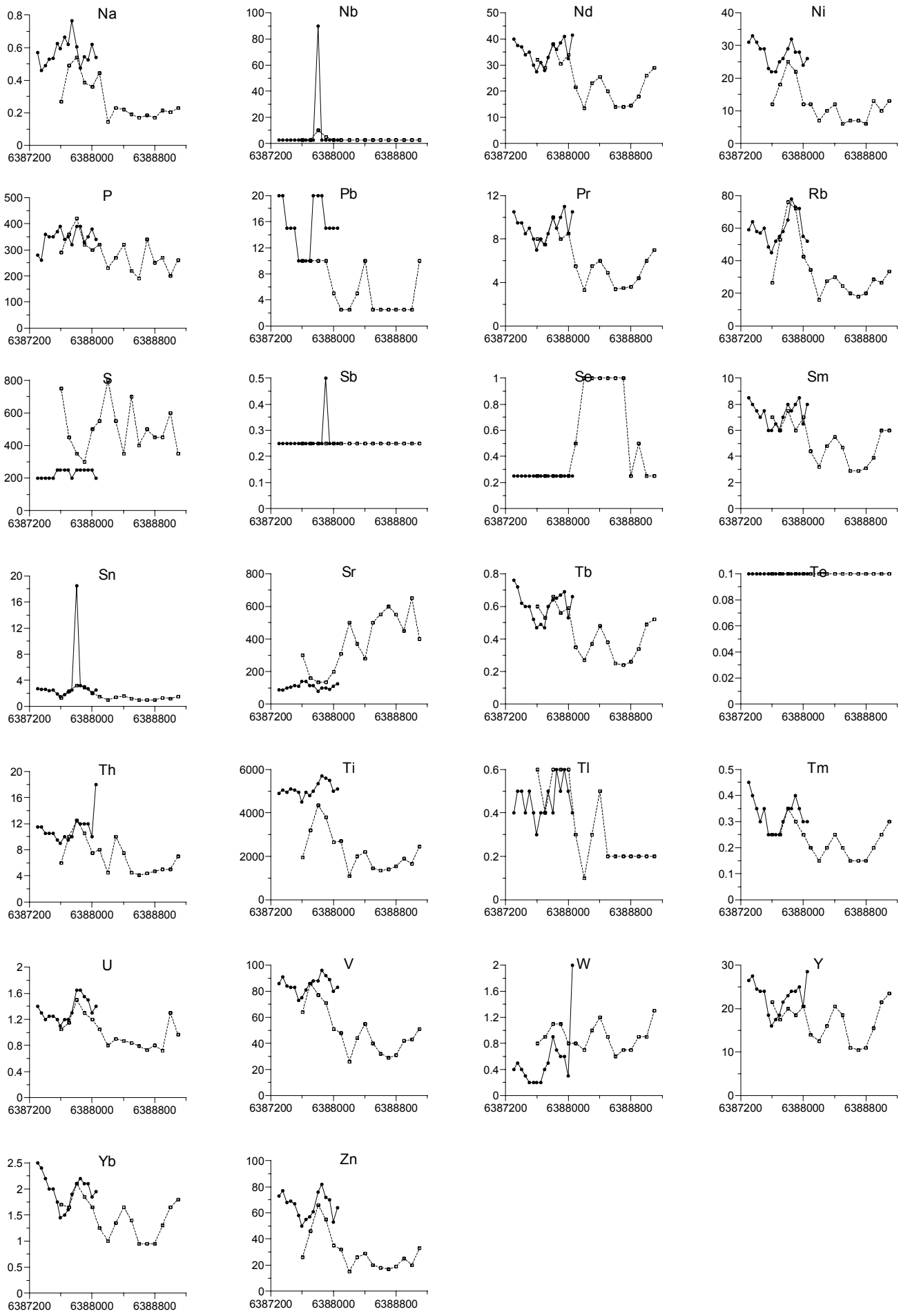


Figure A3.5a (continued): Comparison of soil (0-10 cm) and augered sample (variable depth to 70 cm) on 427600E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm.

Soil sample

Augered sample

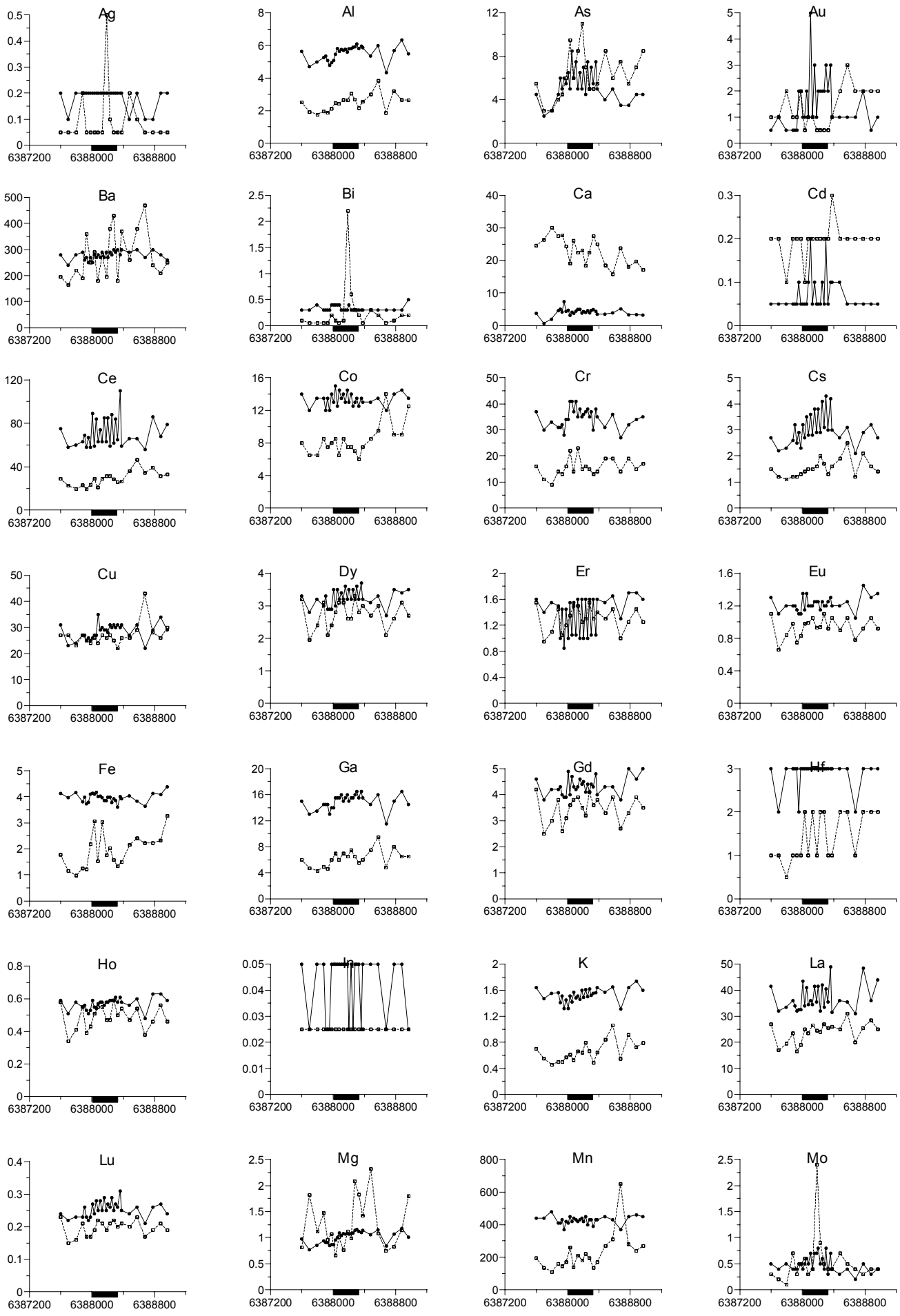


Figure A3.5b: Comparison of soil (<2 mm, 0-10 cm) and augered sample (>6 mm, variable depth to 70 cm) on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm, Au in ppb.

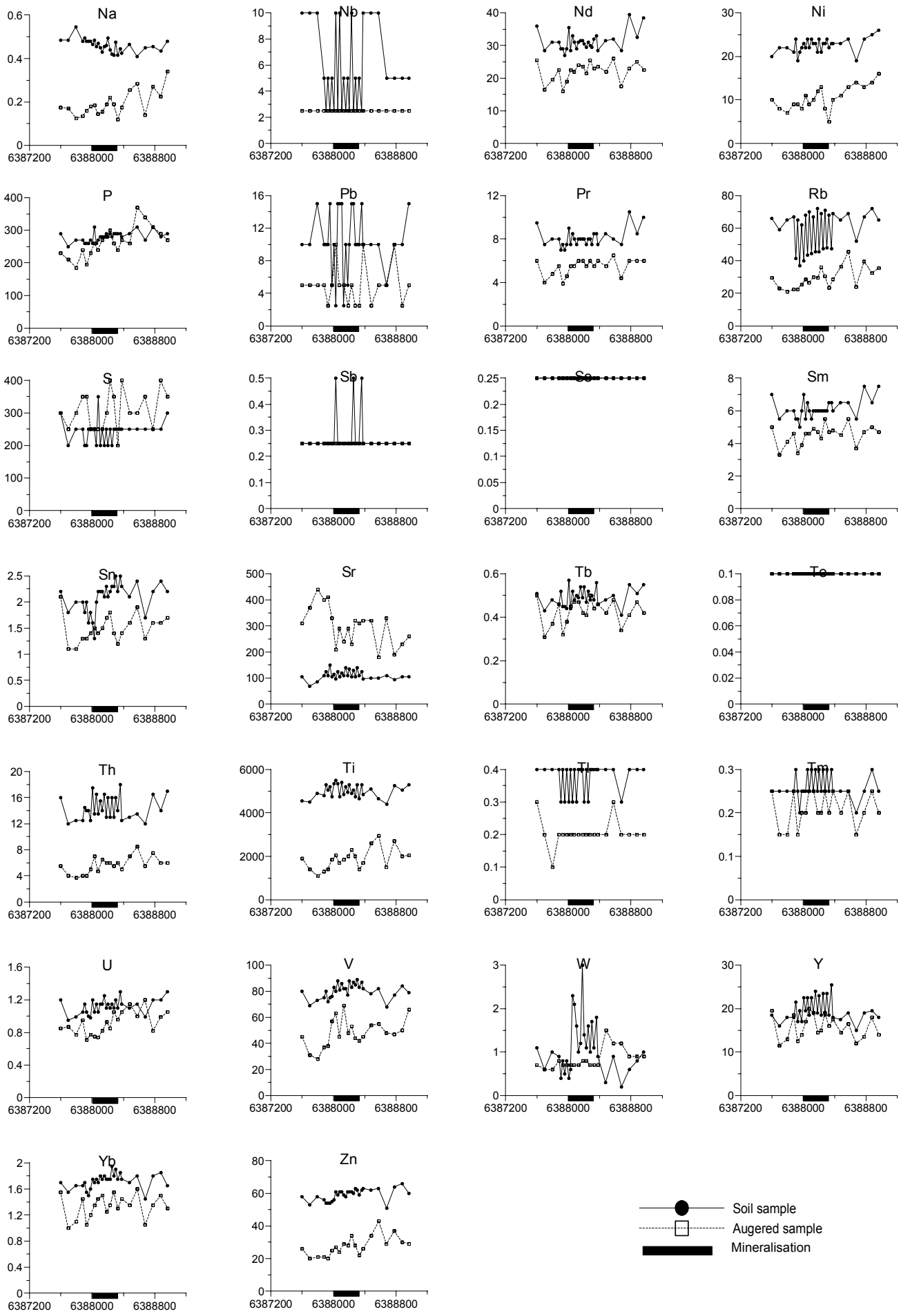


Figure A3.5b (continued): Comparison of soil (<2 mm, 0-10 cm) and augered sample (>6 mm, variable depth to 70 cm) on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm.

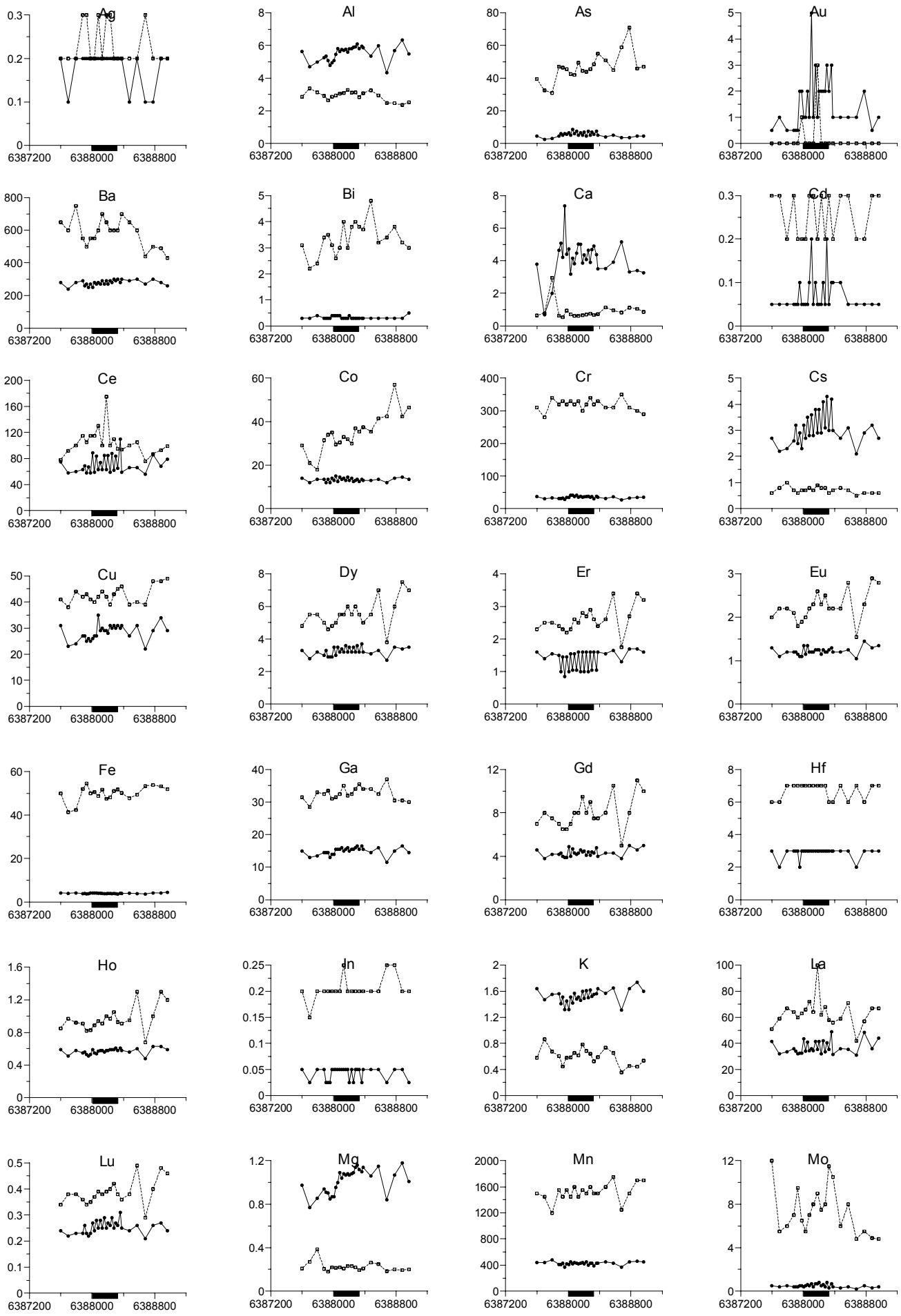


Figure A3.5c: Comparison of soil (<2 mm, 0-10 cm) and lag sample (2-6 mm) on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm, Au in ppb.

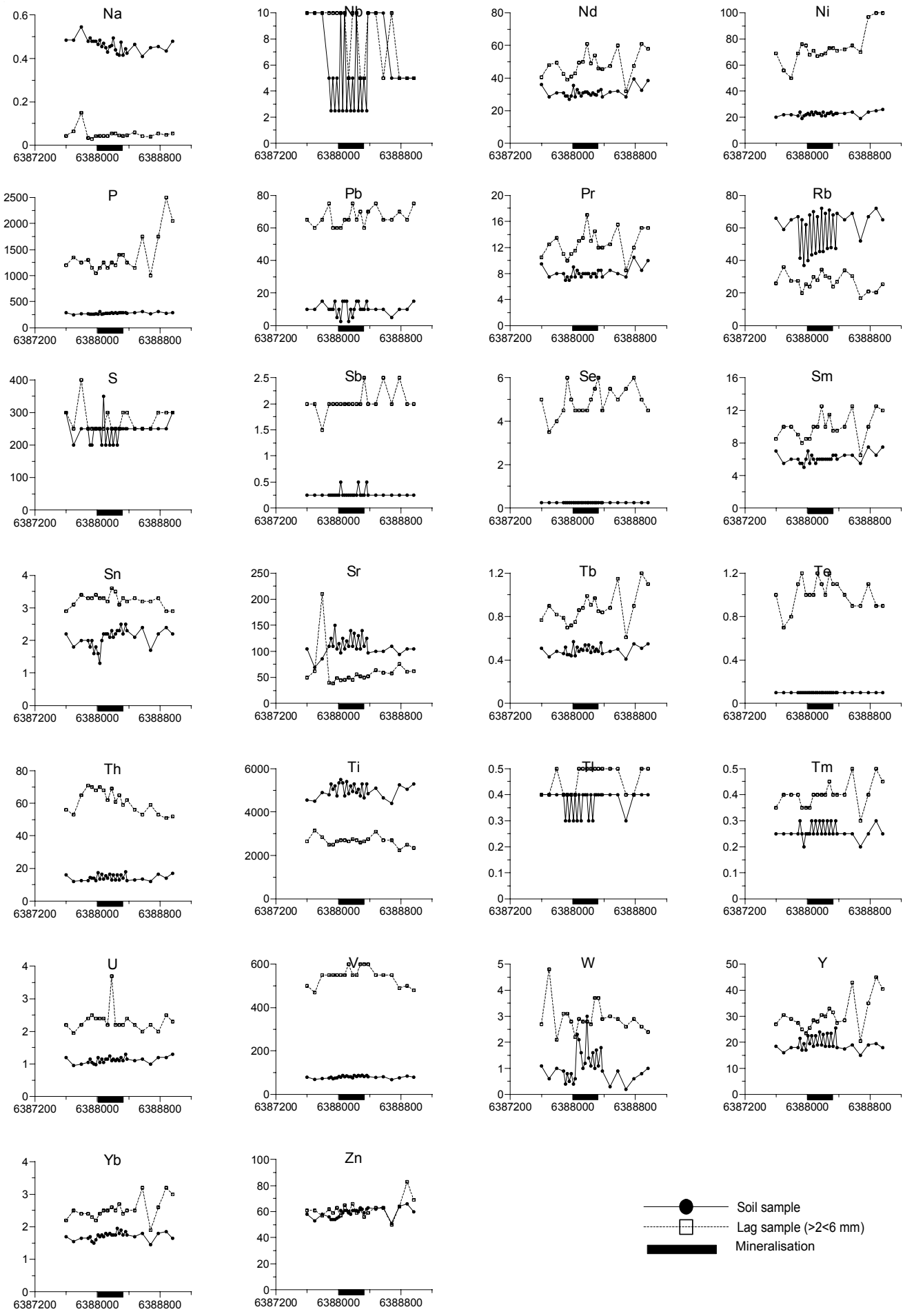


Figure A3.5c (continued): Comparison of soil (<2 mm, 0-10 cm) and lag sample (2-6 mm) on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm.

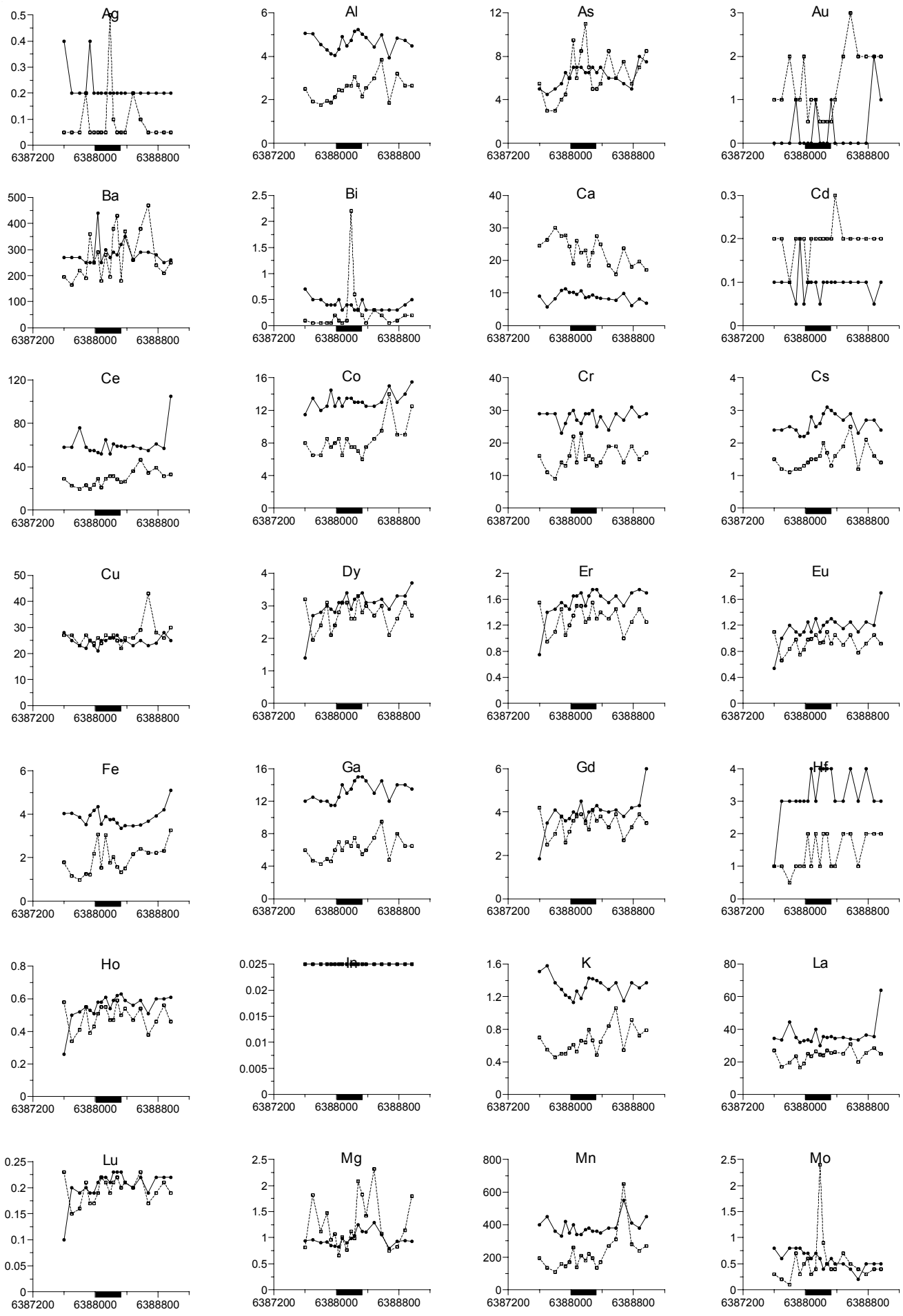


Figure A3.5d: Comparison of fine (<6 mm) and coarse augered samples (>6 mm) taken from variable depth to 70 cm on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis. Majors in %, minors in ppm, Au in ppb.

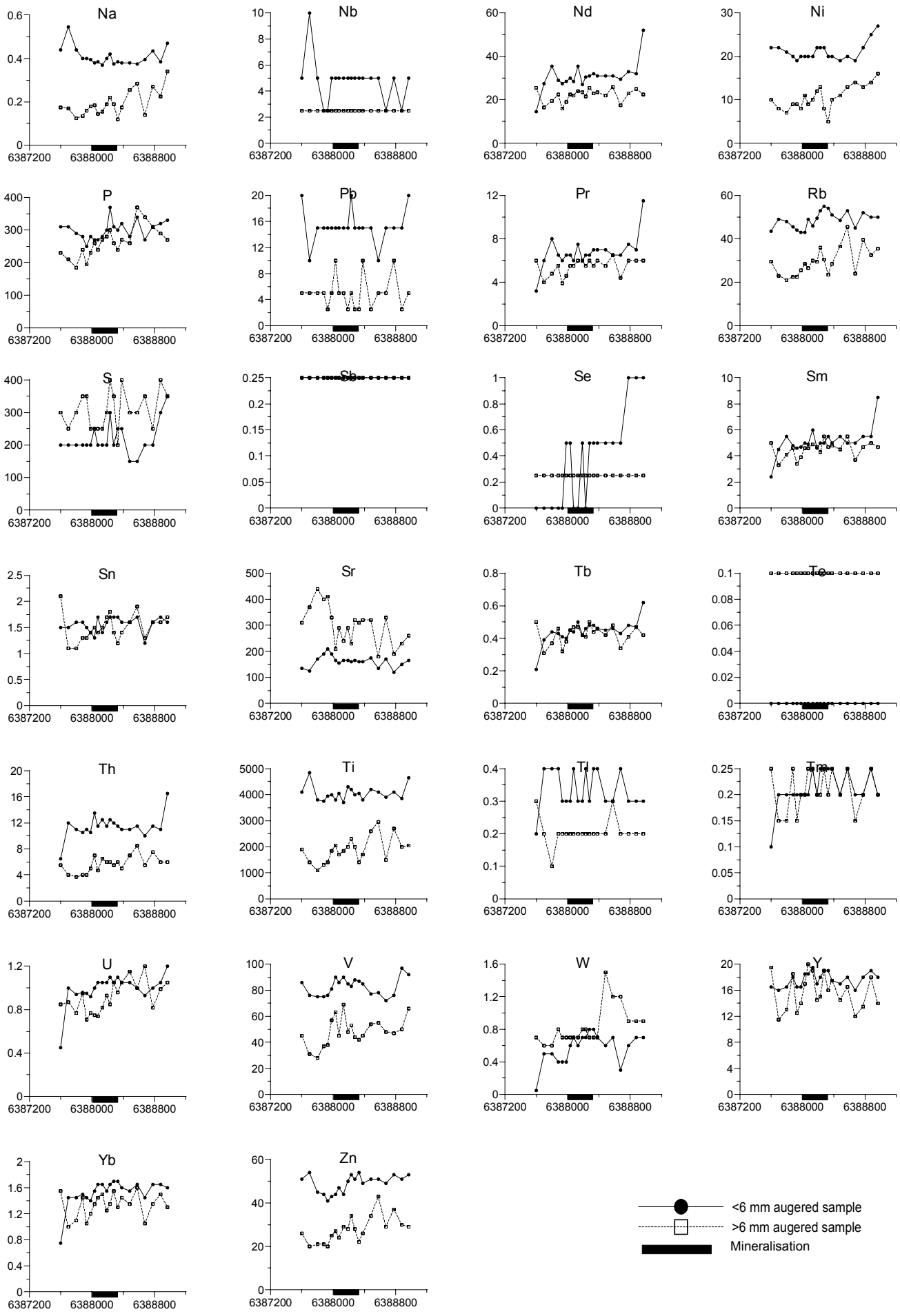


Figure A3.5d (continued): Comparison of fine (<6 mm) and coarse augered samples (>6 mm) taken from variable depth to 70 cm on 428820E at Blue Rose Prospect. Element concentrations on y axis and easting on x axis.
Majors in %, minors in ppm.

Appendix 3.6
Partial leach analyses

Appendix 3.6a. Blue Rose soils <2mm cyanide leach

Sample_no	Field_no	Northing	Easting	Error	Ag_cyanide	As_cyanide	Au_cyanide	Bi_cyanide	Cu_cyanide	Fe_cyanide	Mn_cyanide	Mo_cyanide	S_cyanide	Se_cyanide	Te_cyanide	Tl_cyanide
units					ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppm	ppb	ppb	ppb
scheme					IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11	IC8/11
det_limit					0.05	1	0.01	0.1	1	0.2	0.1	1	0.5	1	1	1
R436354	BRS47	6388925	428827	4	6.3	8.8	2	-0.1	2670	0.6	-0.1	-1	3	4.8	-1	-1
R436355	BRS48	6388824	428827	3.6	13	8.9	2.9	-0.1	2550	-0.2	-0.1	-1	18	5.5	-1	-1
R436356	BRS49	6388728	428832	5.4	6.8	5.9	1.1	0.4	2570	-0.2	-0.1	-1	5.5	3.4	-1	-1
R436357	BRS50	6388634	428815	3.9	7.6	6.3	2.6	-0.1	2410	0.2	-0.1	-1	3	3.9	-1	-1
R436358	BRS51	6388572	428830	3.7	12	12	3.3	0.7	2580	-0.2	-0.1	-1	15	9.6	-1	-1
R436359	BRS52	6388526	428827	4	14	10	1.6	0.4	2630	0.2	-0.1	-1	5.5	5.9	-1	-1
R436360	BRS53	6388471	428824	3.4	11	7	1.1	-0.1	2600	0.5	-0.1	-1	5	3.8	-1	-1
R436361	BRS54	6388422	428827	3.2	12	7.9	1.2	0.3	2400	-0.2	-0.1	-1	7	5.5	-1	-1
R436362	BRS55	6388373	428825	5.6	12	13	4.1	-0.1	2330	0.4	-0.1	-1	7	-1	-1	-1
R436363	BRS56	6388322	428826	3.6	13	9.4	2.8	-0.1	2300	-0.2	-0.1	-1	29.5	7.3	-1	-1
R436364	BRS57	6388271	428827	4	12	7.6	2.5	-0.1	2370	-0.2	-0.1	-1	5.5	3.6	-1	-1
R436365	BRS58	6388225	428824	4.3	16	4.9	2.7	-0.1	1690	-0.2	-0.1	-1	26	15	-1	-1
R436366	BRS59	6388172	428820	4.5	10	6.2	2.5	-0.1	2060	-0.2	-0.1	-1	3.5	-1	-1	-1
R436367	BRS60	6388123	428816	3.8	14	9.1	2.5	-0.1	2140	0.2	-0.1	-1	7	-1	-1	-1
R436368	BRS61	6388064	428815	3.9	13	8.3	1.7	-0.1	2090	-0.2	-0.1	-1	4	-1	-1	-1
R436369	BRS62	6388001	428818	4.8	9.7	6.6	1.5	-0.1	2100	0.2	-0.1	-1	3	5.1	-1	-1
R436370	BRS63	6387900	428820	3.8	12	12	3.3	-0.1	2350	0.3	-0.1	-1	5.5	2.7	-1	-1
R436371	BRS64	6387800	428811	3.9	9.7	6.3	-0.01	-0.1	2240	0.3	-0.1	-1	3	6.7	-1	-1
R436372	BRS65	6387700	428815	6.6	11	5.2	1.3	-0.1	2220	0.3	-0.1	3.4	7	6.5	-1	-1
R436373	BRS66	6387599	428799	6.3	10	6.8	3.9	-0.1	2250	-0.2	-0.1	-1	2.5	3.8	-1	-1

Appendix 3.6b.

Blue Rose soils <2mm
MMI leach

Sample_no	Field_no	Northing	Easting	Error	As_MMI	Au_MMI	Cu_MMI	Fe_MMI	Mo_MMI	Se_MMI
units					ppb	ppb	ppb	ppb	ppb	ppb
scheme					WAMFM	WAMBM	WAMAM	WAMFM	WAMFM	WAMFM
det_limit					1	0.25	20	100	5	2
R436354	BRS47	6388925	428827	4	7	1.85	100	2800	-5	14
R436355	BRS48	6388824	428827	3.6	11	2.4	127	2600	-5	14
R436356	BRS49	6388728	428832	5.4	7	1.8	74	2000	-5	9
R436357	BRS50	6388634	428815	3.9	6	1.55	71	1900	-5	7
R436358	BRS51	6388572	428830	3.7	11	3	101	2000	-5	11
R436359	BRS52	6388526	428827	4	7	1.4	93	2800	-5	14
R436360	BRS53	6388471	428824	3.4	6	1.15	76	2800	-5	12
R436361	BRS54	6388422	428827	3.2	9	2.35	89	2300	-5	9
R436362	BRS55	6388373	428825	5.6	11	2.65	93	2400	-5	11
R436363	BRS56	6388322	428826	3.6	10	2.25	98	3000	-5	14
R436364	BRS57	6388271	428827	4	8	1.7	100	2800	-5	13
R436365	BRS58	6388225	428824	4.3	10	2.1	84	1600	-5	23
R436366	BRS59	6388172	428820	4.5	9	2.2	95	2200	-5	10
R436367	BRS60	6388123	428816	3.8	8	2.75	87	2600	-5	9
R436368	BRS61	6388064	428815	3.9	9	2.4	85	2500	-5	10
R436369	BRS62	6388001	428818	4.8	7	1.7	71	2400	-5	8
R436370	BRS63	6387900	428820	3.8	10	2.3	75	2400	-5	9
R436371	BRS64	6387800	428811	3.9	8	0.85	88	3500	-5	15
R436372	BRS65	6387700	428815	6.6	8	1.75	114	5700	10	21
R436373	BRS66	6387599	428799	6.3	10	2.45	104	2700	-5	9

Appendix 3.6c. Blue Rose soils <2mm pyrophosphate leach

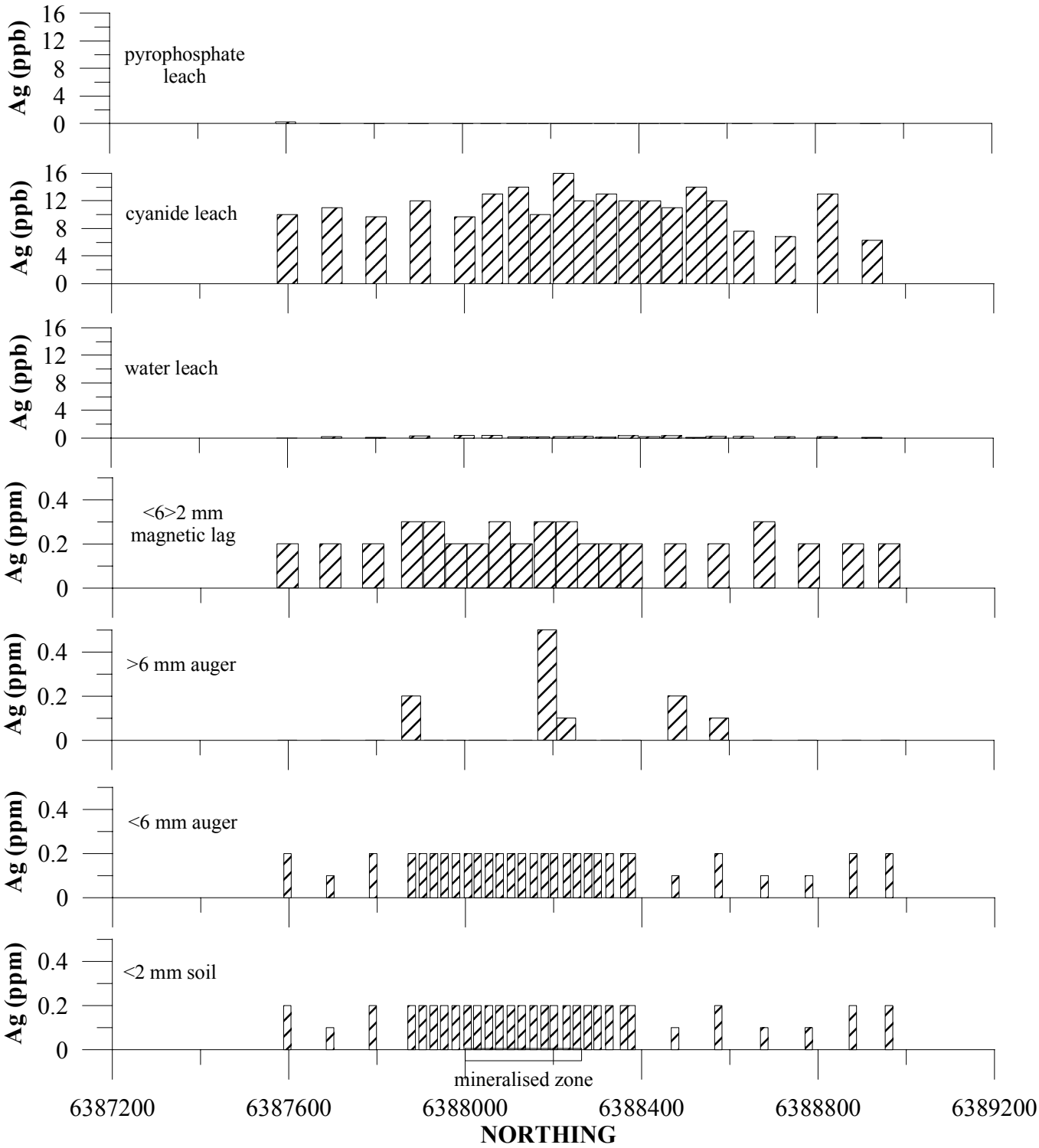
Sample no	Field no	Northing	Easting	Error	Ag pyrophosphate	As pyrophosphate	Au pyrophosphate	Bi pyrophosph	Cu pyrophosphate
units					ppb	ppb	ppb	ppb	ppb
scheme					IC8/5	IC8/5	IC8/5	IC8/5	IC8/5
det_limit					0.05	1	0.01	0.1	1
R436354	BRS47	6388925	428827	4	-0.05	435	0.68	0.6	2060
R436355	BRS48	6388824	428827	3.6	-0.05	561	1.6	0.2	2240
R436356	BRS49	6388728	428832	5.4	-0.05	344	-0.01	0.6	2420
R436357	BRS50	6388634	428815	3.9	-0.05	367	1.7	<0.1	2530
R436358	BRS51	6388572	428830	3.7	-0.05	725	2.3	0.1	2240
R436359	BRS52	6388526	428827	4	-0.05	564	1.5	<0.1	2030
R436360	BRS53	6388471	428824	3.4	-0.05	372	1.6	0.5	2180
R436361	BRS54	6388422	428827	3.2	-0.05	552	0.66	0.1	2370
R436362	BRS55	6388373	428825	5.6	-0.05	709	0.31	<0.1	2260
R436363	BRS56	6388322	428826	3.6	-0.05	669	2.7	<0.1	2150
R436364	BRS57	6388271	428827	4	-0.05	497	0.46	<0.1	1850
R436365	BRS58	6388225	428824	4.3	-0.05	529	-0.01	0.8	2030
R436366	BRS59	6388172	428820	4.5	-0.05	514	-0.01	0.3	1860
R436367	BRS60	6388123	428816	3.8	-0.05	543	2.7	<0.1	1610
R436368	BRS61	6388064	428815	3.9	-0.05	579	0.93	<0.1	1830
R436369	BRS62	6388001	428818	4.8	-0.05	388	1	0.2	1670
R436370	BRS63	6387900	428820	3.8	-0.05	519	-0.01	<0.1	1940
R436371	BRS64	6387800	428811	3.9	-0.05	353	0.79	<0.1	1710
R436372	BRS65	6387700	428815	6.6	-0.05	302	1.6	0.1	1450
R436373	BRS66	6387599	428799	6.3	0.25	569	3.2	0.6	1940

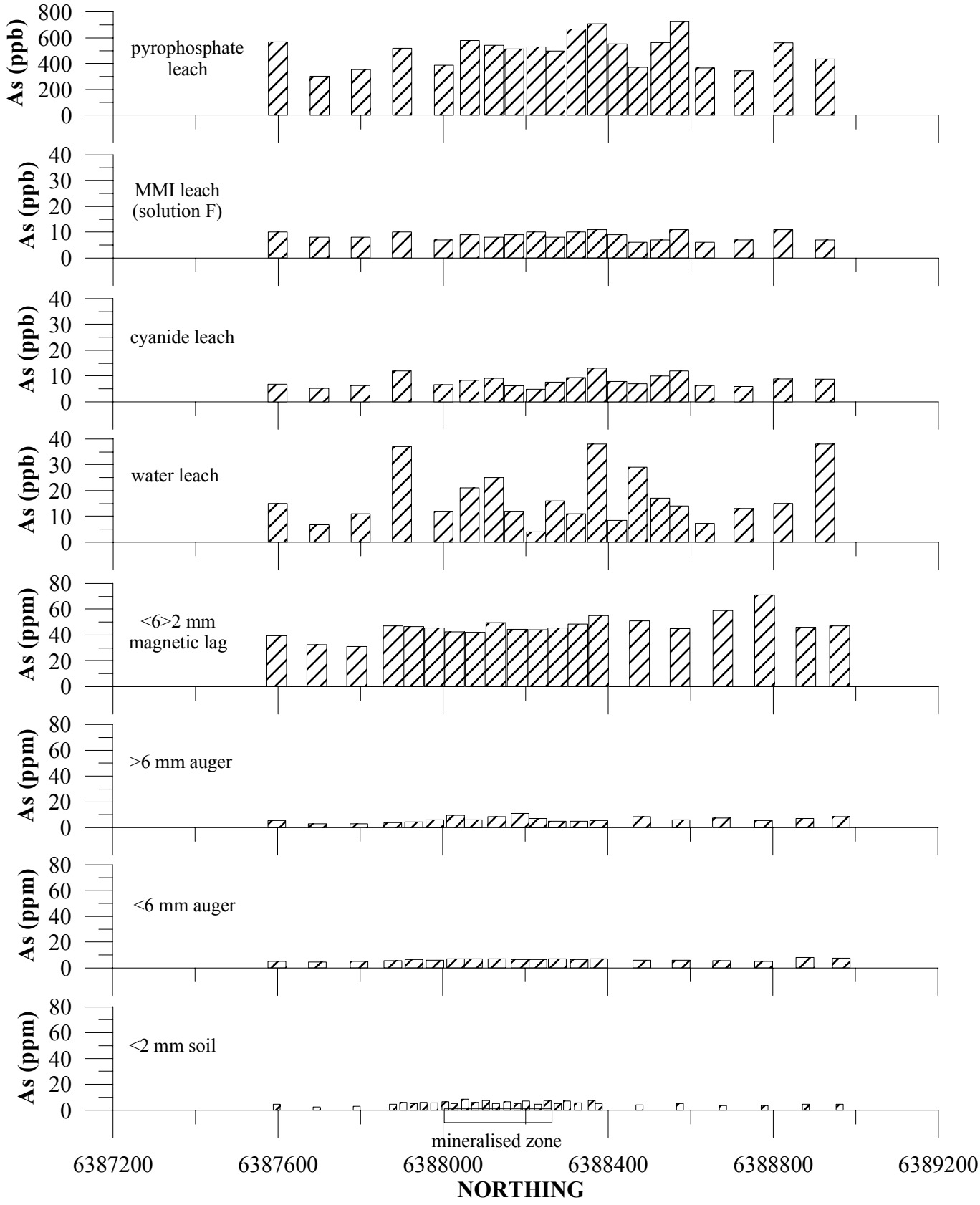
Sample no	Fe pyrophosphate	Mn pyrophosphate	Mo pyrophosphate	S pyrophosphate	Se pyrophosphate	Te pyrophosphate	Tl pyrophosphate		
units	ppm	ppm	ppb	ppm	ppb	ppb	ppb		
scheme	IC8/5	IC8/5	IC8/5	IC8/5	IC8/5	IC8/5	IC8/5		
det_limit	0.2	0.1	1	0.5	1	1	1		
R436354	17	0.3	1.4	19.5	18	-1	-1		
R436355	8.5	0.2	6.9	32.5	32	-1	-1		
R436356	8.5	0.4	-1	27	22	-1	-1		
R436357	11.5	0.7	2.8	30.5	26	-1	-1		
R436358	5.5	0.3	-1	33	20	-1	-1		
R436359	14.5	0.3	-1	23	27	-1	-1		
R436360	16	0.5	2.4	25	24	-1	-1		
R436361	6.5	0.5	-1	30	27	-1	-1		
R436362	5.5	0.2	-1	24.5	27	-1	-1		
R436363	5.5	0.2	3.3	48.5	26	-1	-1		
R436364	11	0.3	-1	21	11	-1	-1		
R436365	4.6	0.3	4.6	48	43	-1	-1		
R436366	6	0.2	-1	20.5	15	-1	-1		
R436367	5.5	0.2	-1	23	18	-1	-1		
R436368	500	3.2	-1	24	24	-1	-1		
R436369	9	0.4	1.2	23	15	-1	-1		
R436370	6.5	0.4	-1	25.5	15	-1	-1		
R436371	19	0.7	2.7	23	15	-1	-1		
R436372	48	3.1	15	33.5	24	1.1	-1		
R436373	9	0.5	-1	23.5	28	-1	-1		

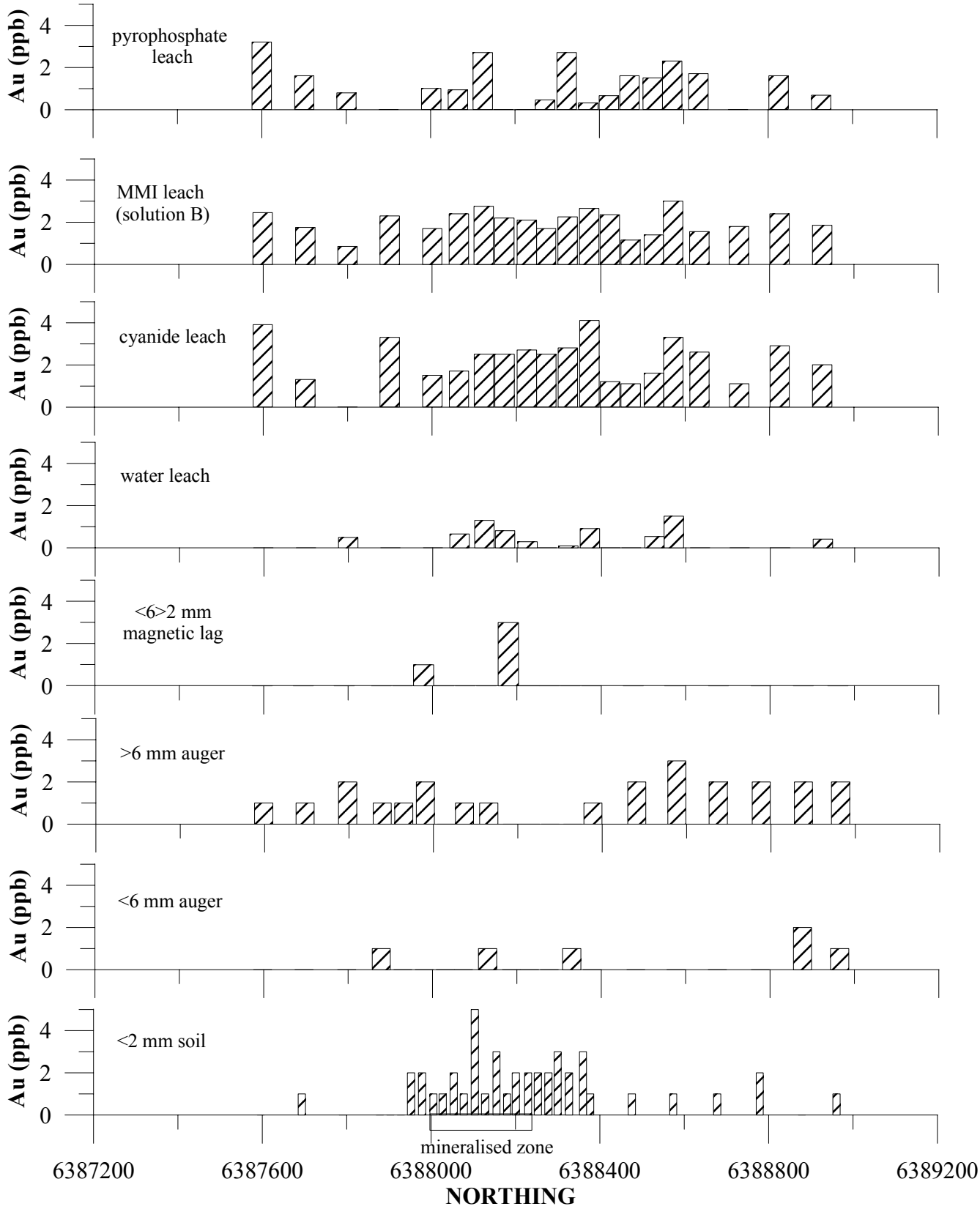
Appendix 3.6d. Blue Rose soils <2mm water leach

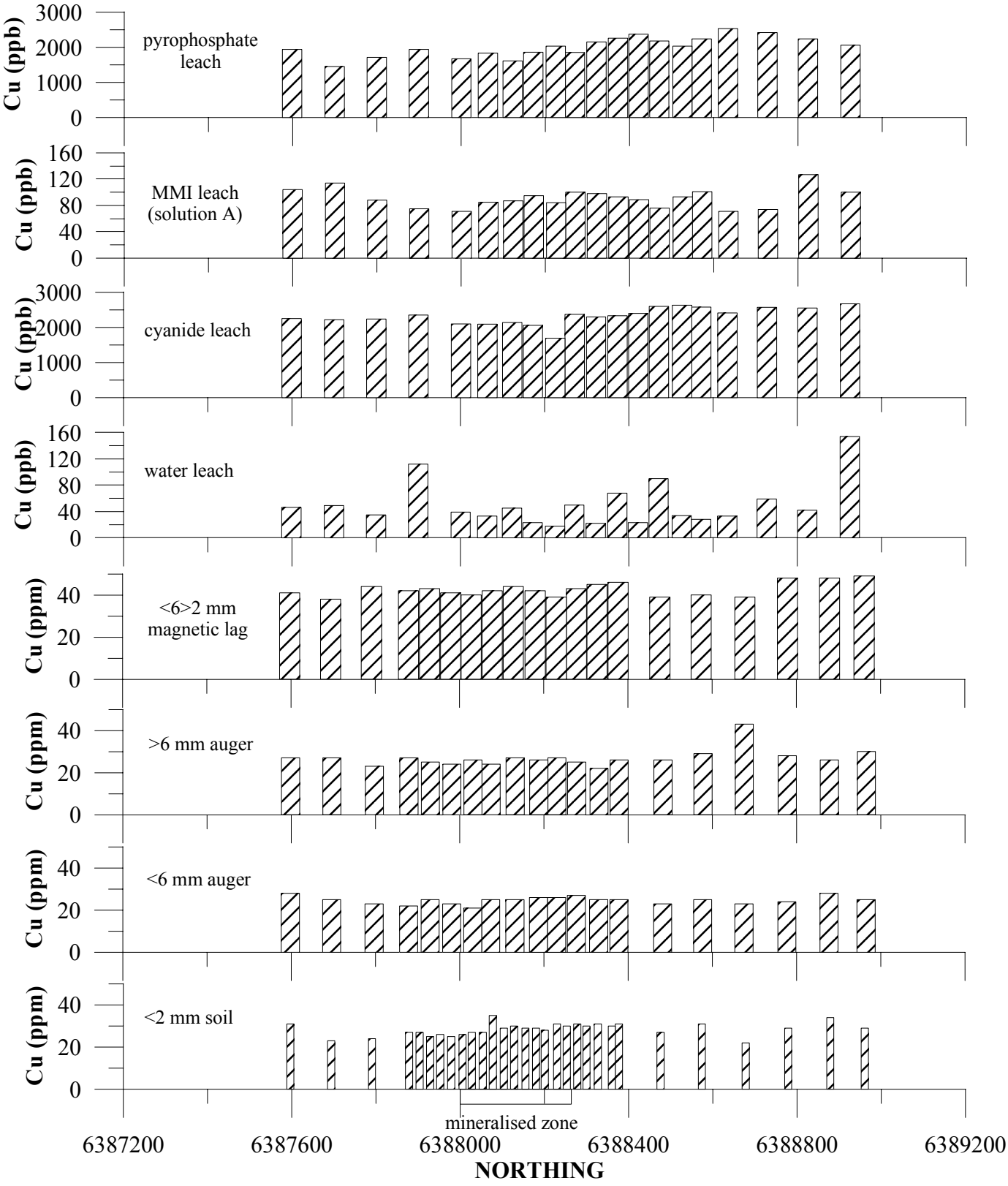
Sample_no	Field_no	Northing	Easting	Error	Ag_water	As_water	Au_water	Bi_water	Cu_water	Fe_water	Mn_water	Mo_water	S_water	Se_water	Te_water	Tl_water
units					ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppm	ppb	ppb	ppb
scheme					IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1	IC8/1
det_limit					0.05	1	0.01	0.1	1	0.2	0.1	1	0.5	1	1	1
R436354	BRS47	6388925	428827	4	0.08	38	0.41	1.1	154	29	0.2	2.8	4	5.5	-1	-1
R436355	BRS48	6388824	428827	3.6	0.2	15	-0.01	0.3	42	2.1	-0.1	1.7	17.5	7.6	-1	-1
R436356	BRS49	6388728	428832	5.4	0.21	13	-0.01	-0.1	59	6.5	-0.1	-1	6	3.1	-1	-1
R436357	BRS50	6388634	428815	3.9	0.23	7.3	-0.01	-0.1	33	2.9	-0.1	-1	3	4.2	-1	-1
R436358	BRS51	6388572	428830	3.7	0.25	14	1.5	-0.1	28	0.6	-0.1	-1	14	1.9	-1	-1
R436359	BRS52	6388526	428827	4	0.09	17	0.54	-0.1	34	4.2	-0.1	-1	5	6	-1	-1
R436360	BRS53	6388471	428824	3.4	0.37	29	-0.01	-0.1	90	11.5	-0.1	1.7	6	7.4	-1	-1
R436361	BRS54	6388422	428827	3.2	0.22	8.4	-0.01	-0.1	23	0.7	-0.1	-1	6.5	3.1	-1	-1
R436362	BRS55	6388373	428825	5.6	0.36	38	0.91	-0.1	68	9.5	-0.1	-1	7.5	5.4	-1	-1
R436363	BRS56	6388322	428826	3.6	0.12	11	0.09	-0.1	22	0.5	-0.1	-1	29	6	-1	-1
R436364	BRS57	6388271	428827	4	0.24	16	-0.01	-0.1	50	5.5	-0.1	-1	5	-1	-1	-1
R436365	BRS58	6388225	428824	4.3	0.19	4	0.29	-0.1	18	-0.2	-0.1	-1	24.5	14	-1	-1
R436366	BRS59	6388172	428820	4.5	0.16	12	0.82	-0.1	23	3.4	-0.1	-1	3.5	1.1	-1	-1
R436367	BRS60	6388123	428816	3.8	0.18	25	1.3	-0.1	45	7	-0.1	-1	7.5	2.4	-1	-1
R436368	BRS61	6388064	428815	3.9	0.38	21	0.66	-0.1	33	6	-0.1	-1	4	2	-1	-1
R436369	BRS62	6388001	428818	4.8	0.38	12	-0.01	-0.1	39	5.5	-0.1	-1	3.5	-1	-1	-1
R436370	BRS63	6387900	428820	3.8	0.32	37	-0.01	-0.1	112	16	0.1	-1	6	5.9	-1	-1
R436371	BRS64	6387800	428811	3.9	0.08	11	0.49	-0.1	35	7	-0.1	-1	3	3.6	-1	-1
R436372	BRS65	6387700	428815	6.6	0.19	6.7	-0.01	-0.1	49	1.1	-0.1	4.4	6.5	4.9	-1	-1
R436373	BRS66	6387599	428799	6.3	-0.05	15	-0.01	-0.1	46	4.6	-0.1	-1	3	1.2	-1	-1

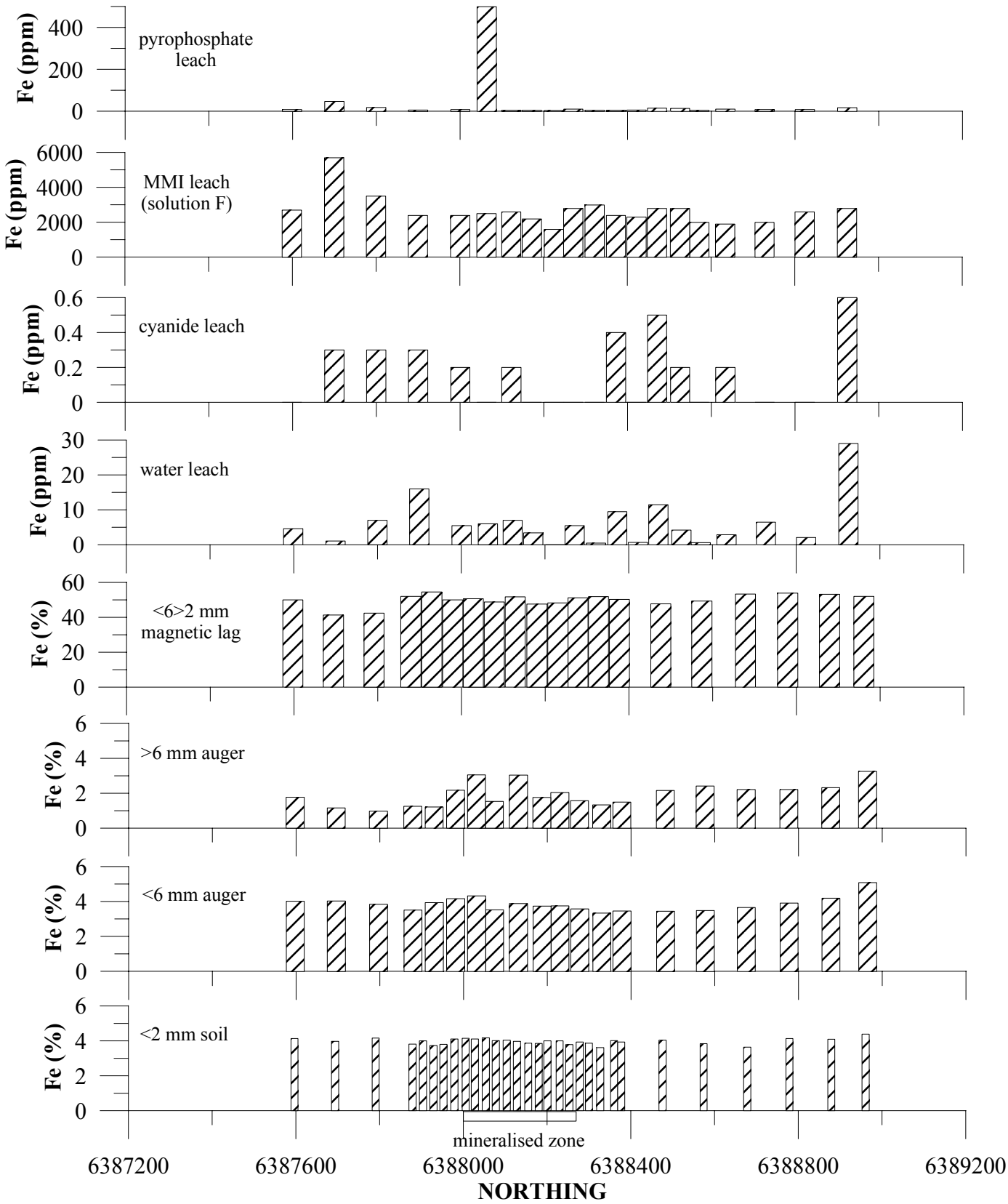
Appendix 3.7
Element plots for partial leach analyses

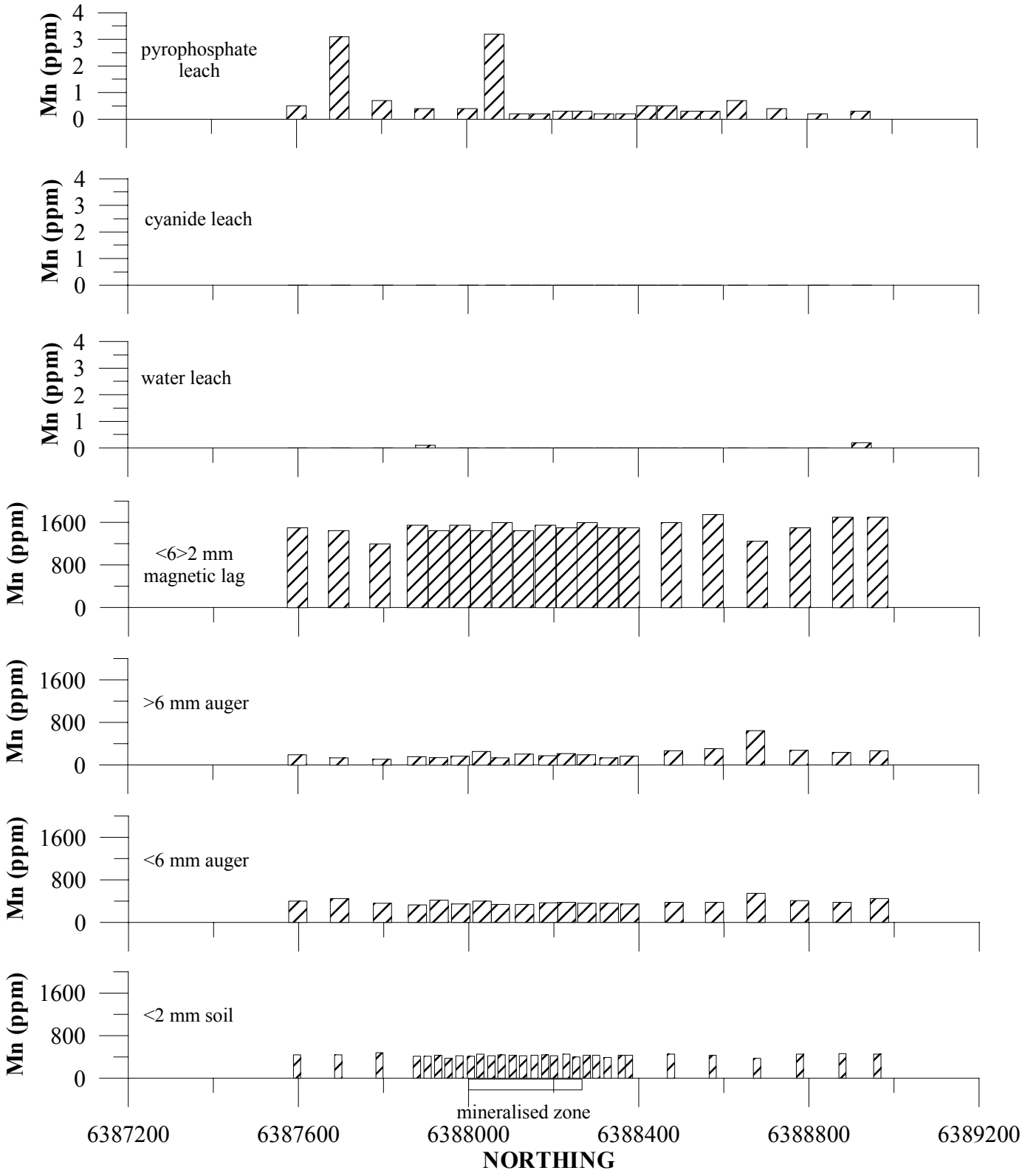

Ag (ppb)
16
12
8
4
0
pyrophosphate leach
cyanide leach
water leach
Ag (ppm)
0.4
0.2
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

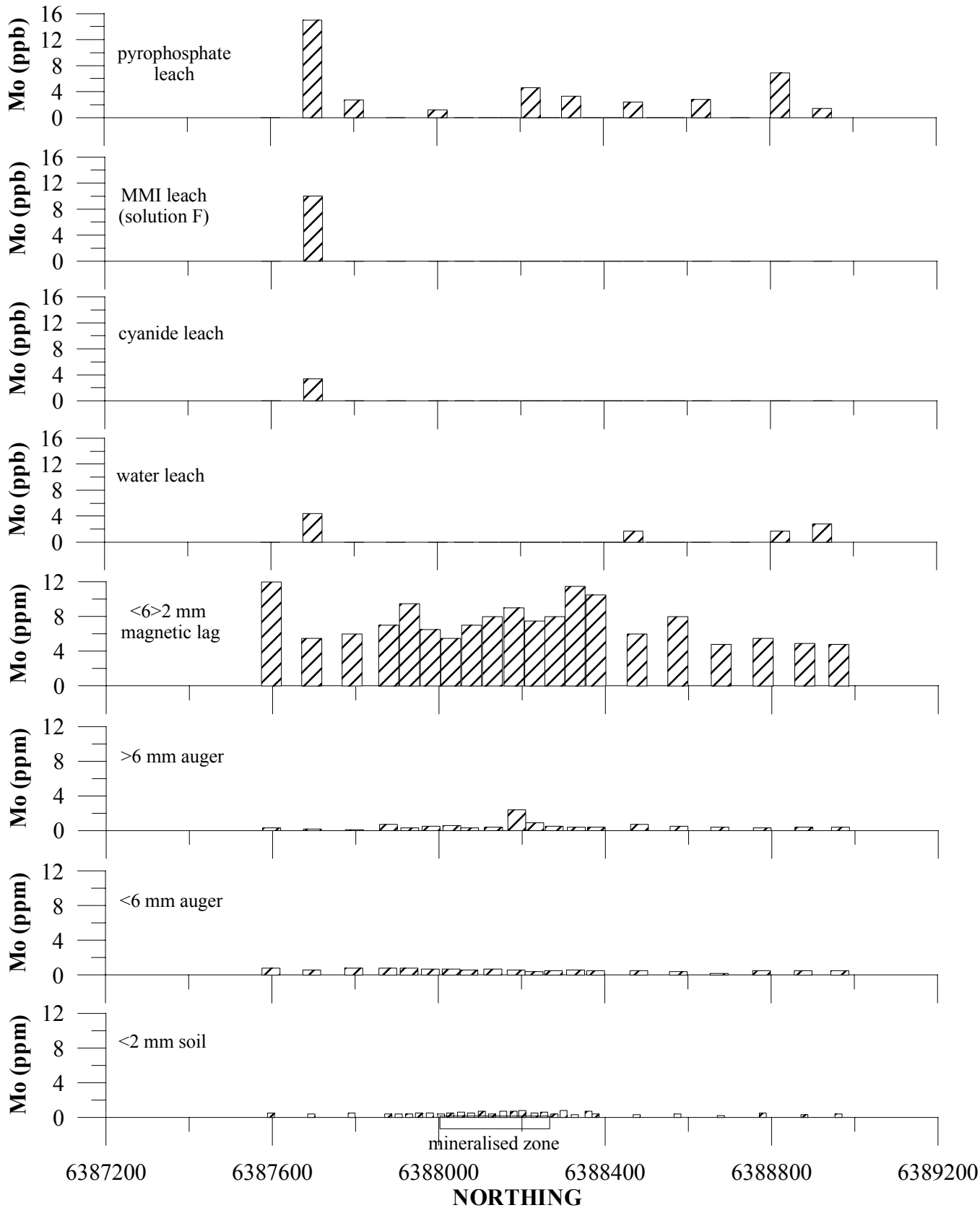

As (ppb)
800
600
400
200
0
pyrophosphate leach
As (ppb)
40
30
20
10
0
MMI leach (solution F)
As (ppb)
cyanide leach
As (ppb)
water leach
As (ppm)
80
60
40
20
0
<6>2 mm magnetic lag
As (ppm)
>6 mm auger
As (ppm)
<6 mm auger
As (ppm)
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

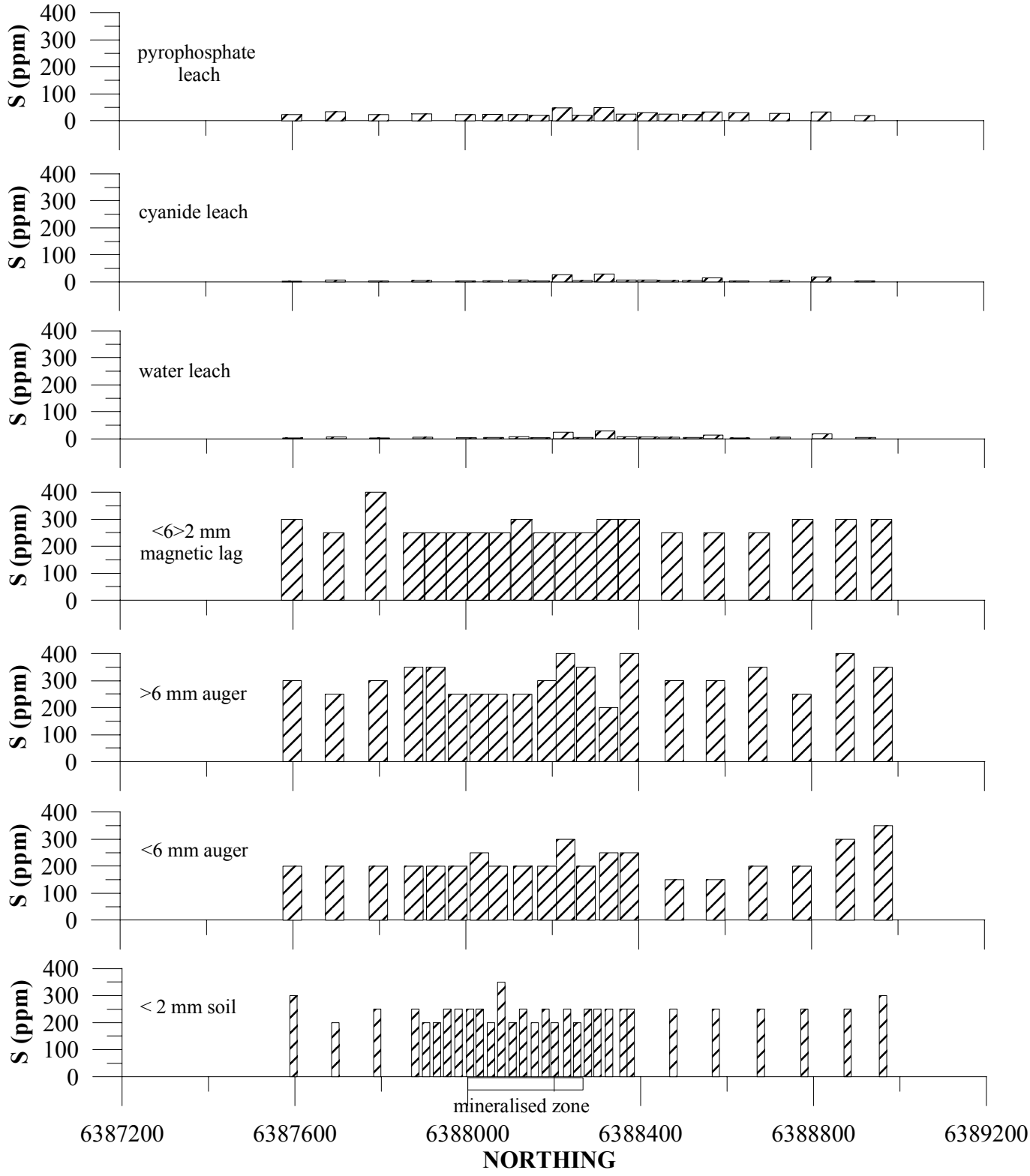

Au (ppb)
4
2
0
pyrophosphate leach
MMI leach (solution B)
cyanide leach
water leach
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

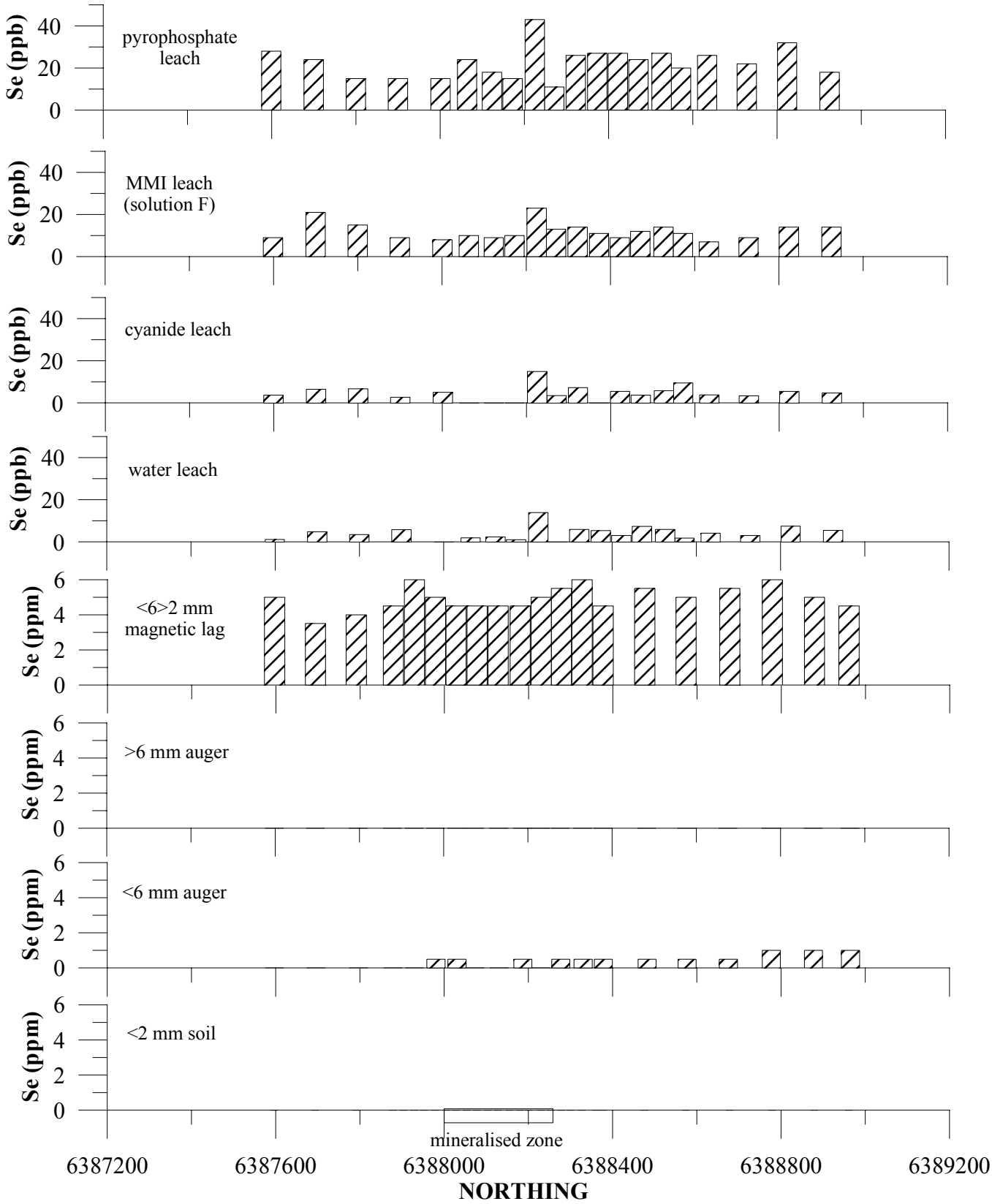

Cu (ppb)
3000
2000
1000
0
pyrophosphate leach
Cu (ppb)
160
120
80
40
0
MMI leach (solution A)
Cu (ppb)
3000
2000
1000
0
cyanide leach
Cu (ppb)
160
120
80
40
0
water leach
Cu (ppm)
40
20
0
<6>2 mm magnetic lag
Cu (ppm)
40
20
0
>6 mm auger
Cu (ppm)
40
20
0
<6 mm auger
Cu (ppm)
40
20
0
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

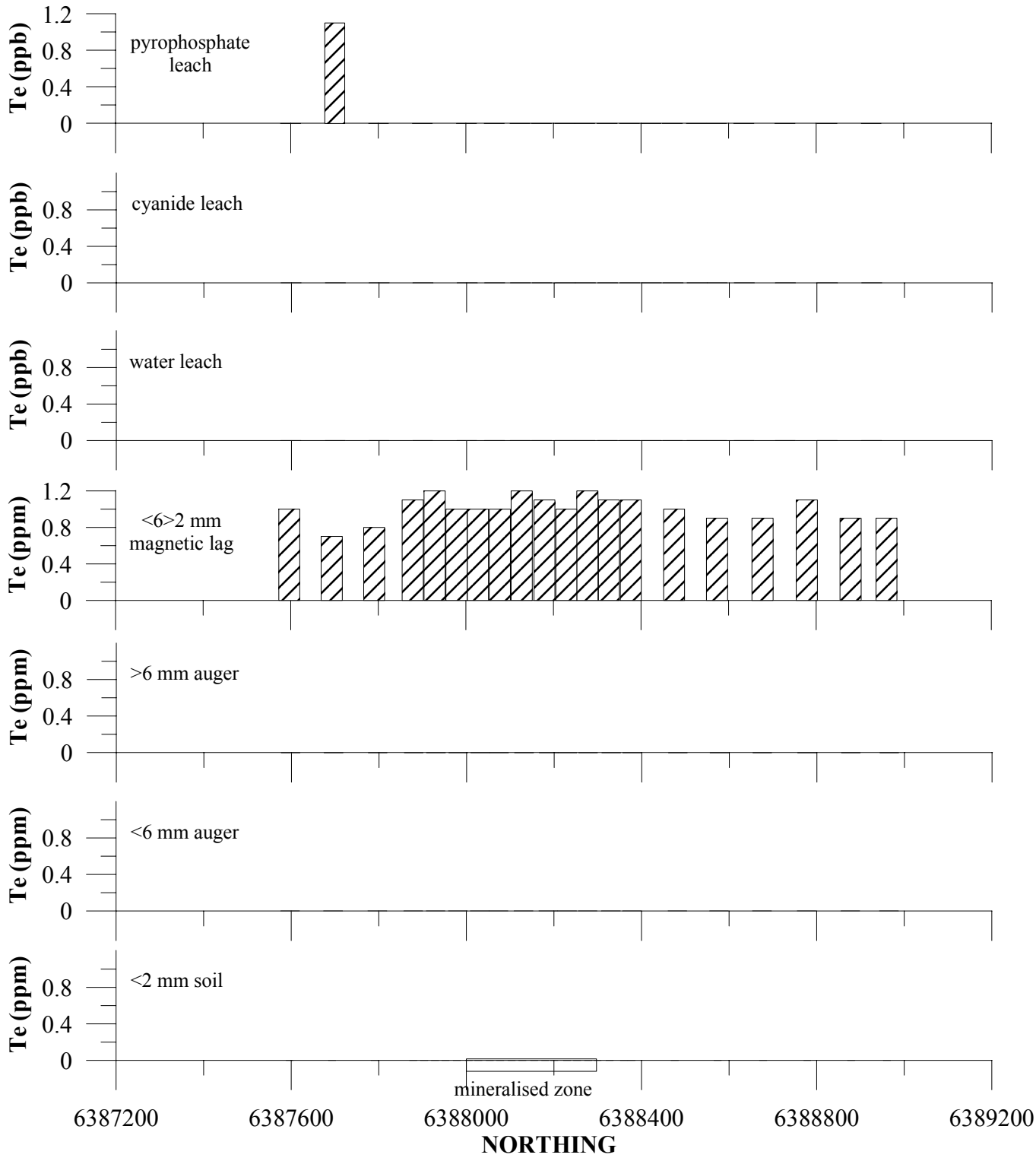

Fe (ppm)
400
200
0
pyrophosphate leach
Fe (ppm)
6000
4000
2000
0
MMI leach (solution F)
Fe (ppm)
0.6
0.4
0.2
0
cyanide leach
Fe (ppm)
30
20
10
0
water leach
Fe (%)
60
40
20
0
<6>2 mm magnetic lag
Fe (%)
6
4
2
0
>6 mm auger
Fe (%)
6
4
2
0
<6 mm auger
Fe (%)
6
4
2
0
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

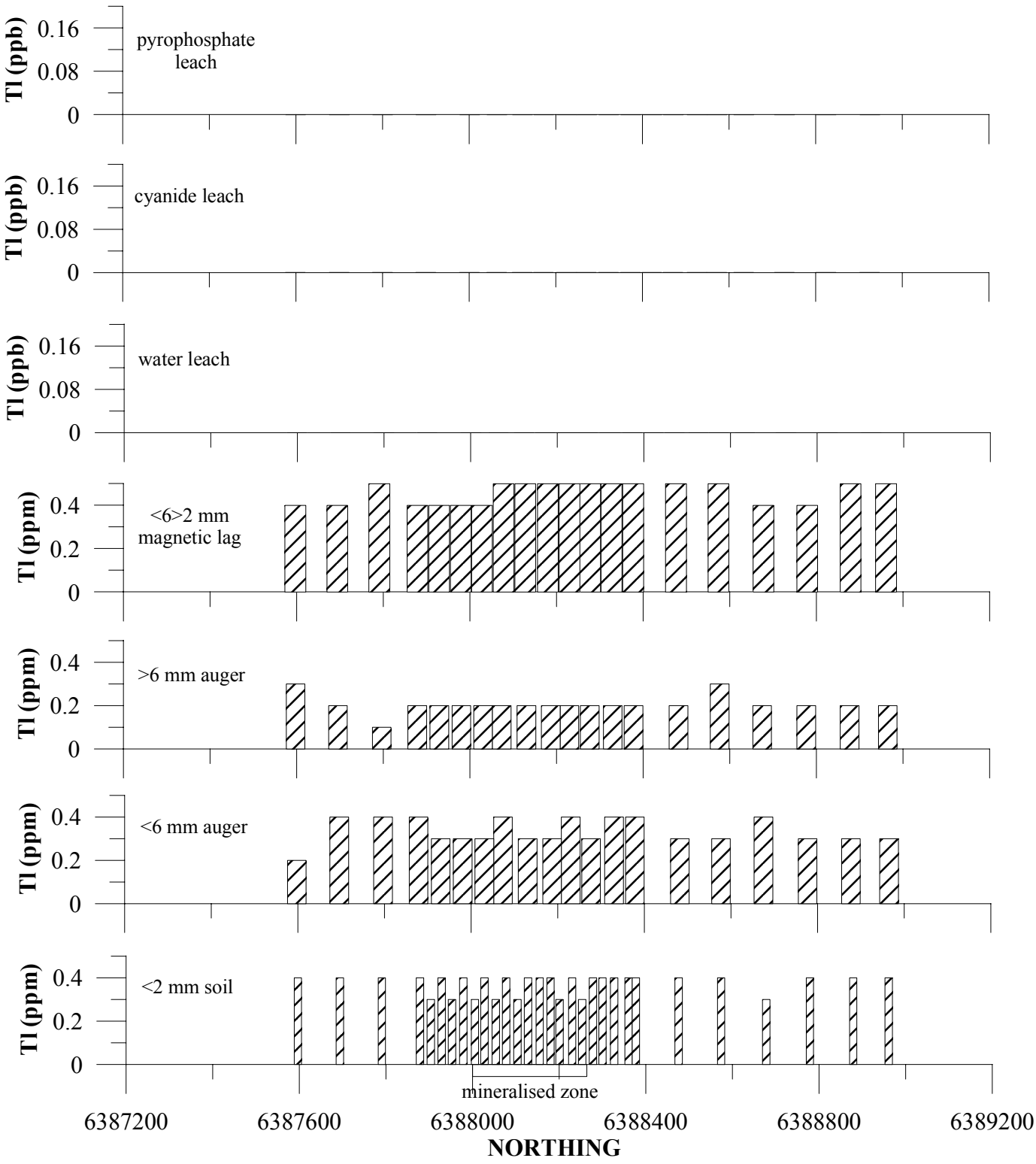

Mn (ppm)
4
3
2
1
0
pyrophosphate leach
cyanide leach
water leach
1600
800
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING


Mo (ppb)
16
12
8
4
0
pyrophosphate leach
MMI leach (solution F)
cyanide leach
water leach
Mo (ppm)
12
8
4
0
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING


S (ppm)
400
300
200
100
0
pyrophosphate leach
cyanide leach
water leach
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
< 2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING


Se (ppb)
40
20
0
pyrophosphate leach
MMI leach (solution F)
cyanide leach
water leach
Se (ppm)
6
4
2
0
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING


Te (ppb)
1.2
0.8
0.4
0
pyrophosphate leach
cyanide leach
water leach
Te (ppm)
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING


Tl (ppb)
0.16
0.08
0
pyrophosphate leach
cyanide leach
water leach
Tl (ppm)
0.4
0.2
<6>2 mm magnetic lag
>6 mm auger
<6 mm auger
<2 mm soil
mineralised zone
6387200
6387600
6388000
6388400
6388800
6389200
NORTHING

Appendix 3.8
Analyses of 2-6 mm lags and <6 mm auger samples

Appendix 3.8a

BlueRose lag -6+2mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5
Sample_no	Field_no	Northing	Easting	Error	Description																									
R448154	BRL1	6388028	428817	3.7	qz, magnetic fraction and minor calcrete	0.2	29400	42.5	-1		550	2.6	7150	0.2	115	29.5	330	0.7	40	5	2.3	2	506000	31.5	7	7	0.89	0.2	5850	66
R448155	BRL2	6387979	428820	4.7	qz, magnetic fraction and calcrete	0.2	28600	45.5	1		550	3.1	9400	0.2	115	35	320	0.7	41	4.8	2.2	1.9	500000	31	6.5	7	0.83	0.2	5800	63
R448156	BRL3	6387929	428819	3.6	qz, magnetic fraction and calcrete	0.3	26500	46.5	-1		500	3.5	5450	0.2	105	34	330	0.6	43	4.6	2.3	1.8	545000	33.5	6.5	7	0.82	0.2	4500	60
R448157	BRL4	6387879	428818	4.7	qz, magnetic fraction and calcrete	0.3	29200	47	-1		550	3.4	6450	0.3	115	31.5	320	0.7	42	5	2.4	2.1	520000	32.5	7	7	0.91	0.2	6050	64
R448158	BRL5	6388180	428822		qz, magnetic fraction and calcrete	0.3	32800	44.5	3		650	3	6650	0.2	175	32	300	0.9	42	6	2.8	2.6	475000	32	9.5	7	1	0.2	7850	100
R448159	BRL6	6388078	428822			0.3	30500	42	-1		600	3	6200	0.3	130	30.5	320	0.8	42	5.5	2.6	2.2	487000	32.5	8	7	0.94	0.2	6550	72
R448160	BRL7	6387791	428802	6.6	very sparse lag: qz, magnetic fraction, calcrete	0.2	31300	31	-1		750	2.4	29500	0.2	100	18	340	1	44	5.5	2.5	2.2	423000	33	7.5	7	0.92	0.2	6750	67
R448161	BRL8	6387694	428796	3.9	sl. More abundant lag: qz, magnetic fraction, calcrete	0.2	33700	32.5	-1		600	2.2	7700	0.3	92	21	280	0.8	38	5.5	2.5	2.2	413000	28.5	8	6	0.97	0.15	8650	59
R448162	BRL9	6387597	428802	3.5	sl.moreabundantlag: qz, magnetic fraction, calcrete	0.2	28600	39.5	-1		650	3.1	6500	0.3	78	29	310	0.6	41	4.8	2.3	2	500000	31.5	7	6	0.85	0.2	5800	51
R448163	BRL10	6388230	428827	4.5	qz, magnetic fraction and minor calcrete	0.3	31200	44	-1		600	3.8	7050	0.3	100	30	320	0.8	39	5.5	2.7	2.3	482000	32.5	8	7	0.97	0.2	6850	62
R448164	BRL11	6388128	428819	6.9	qz, magnetic fraction and calcrete	0.2	30900	49.5	-1		700	4	6300	0.3	100	33	330	0.7	44	5.5	2.5	2.3	517000	35	8	7	0.91	0.25	6150	64
R448165	BRL12	6388278	428821	4.7	qz, magnetic fraction and calcrete	0.2	31300	45.5	-1		600	4	7550	0.2	110	37	340	0.8	43	6	2.9	2.5	511000	34	9	7	1.05	0.2	6400	68
R448166	BRL13	6388327	428822	5.5	rel. sparse; qz, magnetic fraction and calcrete	0.2	28400	48.5	-1		600	3.8	6850	0.3	95	35.5	320	0.6	45	5.5	2.6	2.2	518000	35.5	7.5	6	0.93	0.2	5250	58
R448167	BRL14	6388377	428836	6.4	somewhat sparse; qz, magnetic fraction and calcrete	0.2	30700	55	-1		700	3.7	7350	0.2	94	37.5	330	0.7	46	5	2.4	2.2	502000	34	7.5	6	0.91	0.2	5900	56
R448168	BRL15	6388476	428828	3.5	qz, calcrete and minor magnetic fraction	0.2	32500	51	-1	-1	650	4.8	11400	0.3	100	35.5	310	0.8	39	5.5	2.6	2.2	477000	34	8	7	0.95	0.2	7350	59
R448169	BRL16	6388574	428831	4.3	rel. sparse; qz, calcrete and minor magnetic fraction	0.2	29400	45	-1		600	3.2	9600	0.3	105	41.5	310	0.7	40	7	3.4	2.8	493000	32.5	10.5	6	1.3	0.2	6550	71
R448170	BRL17	6388678	428833	3.6	somewhat sparse; qz, calcrete and minor magnetic fraction	0.3	24800	59	1		440	3.4	8250	0.2	76	42.5	350	0.5	39	3.8	1.75	1.55	533000	37	5	7	0.68	0.25	3550	42
R448171	BRL18	6388779	428836	4.3	rel. sparse; qz, calcrete and minor magnetic fraction	0.2	24600	71	-1		500	3.8	11300	0.2	87	57	310	0.6	48	6	2.7	2.3	538000	30.5	8	6	1	0.25	4550	57
R448172	BRL19	6388879	428838	4.5	rel. sparse; qz, calcrete and minor magnetic fraction	0.2	23600	46	-1		490	3.2	10600	0.3	93	42.5	300	0.6	48	7.5	3.4	2.9	532000	30.5	11	7	1.3	0.2	4450	67
R448173	BRL20	6388961	428840	4.8	qz, calcrete, siltstone and magnetic fraction	0.2	25300	47	-1		430	3	8650	0.3	99	46.5	290	0.6	49	7	3.2	2.8	519000	30	10	7	1.2	0.2	5350	67

Element	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
LLD	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																														
R448154	0.37	2150	1450	5.5	440	10	43	68	1150	60	11.5	24	250	2	4.5	8.5	3.3	44.5	0.75	1	70	2700	0.4	0.35	2.4	550	2.2	25.5	2.4	57
R448155	0.35	2200	1550	6.5	420	10	41	75	1050	60	11	25.5	250	2	5	8.5	3.4	49	0.72	1	68	2650	0.4	0.35	2.4	550	2.8	23.5	2.2	63
R448156	0.34	1800	1450	9.5	290	10	39	76	1150	60	10	20	250	2	6	8	3.3	38.5	0.7	1.2	70	2500	0.4	0.35	2.5	550	3.1	25	2.3	59
R448157	0.36	2050	1550	7	340	10	42.5	69	1300	75	11	27.5	250	2	4.5	9	3.3	40	0.79	1.1	71	2500	0.4	0.4	2.4	550	3.1	27.5	2.4	62
R448158	0.39	2300	1550	9	550	10	61	68	1250	75	17	34.5	250	2	4.5	12.5	3.6	45.5	0.99	1.1	69	2750	0.5	0.4	3.7	550	2.8	30.5	2.6	66
R448159	0.39	2200	1600	7	440	10	49.5	71	1250	65	13	30	250	2	4.5	10	3.3	45.5	0.86	1	68	2700	0.5	0.4	2.4	550	2.9	28.5	2.5	65
R448160	0.38	3850	1200	6	1500	10	49.5	50	1250	65	13.5	27.5	400	1.5	4	10	3.4	210	0.82	0.8	65	2850	0.5	0.4	2.2	550	2.1	29	2.4	57
R448161	0.38	2700	1450	5.5	650	10	48	56	1350	60	12.5	36	250	2	3.5	10	3.1	62	0.9	0.7	53	3150	0.4	0.4	1.95	470	4.8	30.5	2.5	61
R448162	0.34	2100	1500	12	430	10	40.5	69	1200	65	10.5	26	300	2	5	8.5	2.9	49.5	0.77	1	56	2650	0.4	0.35	2.2	500	2.7	27	2.2	61
R448163	0.4	2300	1500	7.5	550	10	49	69	1200	65	13	30.5	250	2	5	10	3.5	56	0.91	1	61	2700	0.5	0.4	2.2	550	2.7	30	2.5	59
R448164	0.38	2100	1450	8	440	5	50	67	1150	65	13.5	28	300	2	4.5	10	3.2	49.5	0.88	1.2	62	2650	0.5	0.4	2.2	600	2.8	28	2.5	60
R448165	0.42	2200	1600	8	450	5	54	73	1400	70	14.5	29.5	250	2	5.5	11.5	3.1	52	0.97	1.2	65	2600	0.5	0.45	2.2	600	3.7	33	2.7	62
R448166	0.38	1950	1500	11.5	440	5	46	73	1400	60	12	24	300	2.5	6	9.5	3.3	49.5	0.85	1.1	59	2650	0.5	0.4	2.2	600	3.7	31.5	2.4	56
R448167	0.36	2100	1500	10.5	470	10	45.5	71	1250	70	12	27	300	2	4.5	9.5	3.2	52	0.84	1.1	62	2750	0.5	0.4	2.4	600	2.9	27.5	2.5	59
R448168	0.38	2650	1600	6	600	10	47.5	72	1150	75	12.5	34	250	2	5.5	10	3.3	64	0.88	1	56	3100	0.5	0.4	2.2	550	3	28.5	2.5	63
R448169	0.49	2500	1750	8	420	5	60	75	1750	65	15.5	30.5	250	2.5	5	12.5	3.2	59	1.15	0.9	53	2700	0.5	0.5	2	550	2.9	43	3.2	63
R448170	0.29	1850	1250	4.8	410	10	32	70	1000	65	8.5	17	250	2	5.5	6.5	3.2	58	0.61	0.9	59	2700	0.4	0.3	2.2	550	2.6	20.5	1.9	50
R448171	0.4	2000	1500	5.5	550	5	47.5	97	1750	70	12	21	300	2.5	6	10	3.3	76	0.9	1.1	53	2250	0.4	0.4	2	490	2.9	35	2.6	64
R448172	0.48	1950	1700	4.9	480	5	61	100	2500	65	15	20.5	300	2	5	12.5	2.9	61	1.2	0.9	51	2500	0.5	0.5	2.5	500	2.6	45	3.2	83
R448173	0.46	2000	1700	4.8	550	5	58	100	2050	75	15	25.5	300	2	4.5	12	2.9	62	1.1	0.9	52	2350	0.5	0.45	2.3	480	2.4	40.5	3	69

Appendix 3.8b. BlueRose auger -6mm

					Element	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La
					Units	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M
					LLD	0.1	10	0.5	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5
Sample_no	Field_no	Northing	Easting	Error	Description																									
R448189	BRA17	6387598	428810	3.7	nodular calcrete; 0.41m	0.4	50600	5	-1		270	0.7	90800	0.1	58	11.5	29	2.4	28	1.4	0.75	0.54	40300	12	1.85	1	0.26	-0.05	15100	34.5
R448190	BRA18	6387696	428801	3.7	nodular calcrete; 0.42m	0.2	50400	4.5	-1		270	0.5	57400	0.1	58	13.5	29	2.4	25	2.7	1.4	1	40400	12.5	3.5	3	0.5	-0.05	15800	33.5
R448191	BRA19	6387797	428804	4.2	nodular calcrete; 0.63m	0.2	45500	5	-1		270	0.5	82400	0.1	76	12	29	2.5	23	2.8	1.45	1.2	38600	12	4.1	3	0.52	-0.05	13700	44.5
R448192	BRA20	6387879	428815	4.2	nodular calcrete; 0.49m	0.2	43000	5.5	1		250	0.4	108000	-0.1	58	12.5	23	2.4	22	3	1.55	1.1	35200	12	3.8	3	0.55	-0.05	12900	35
R448193	BRA21	6387930	428823	4.3	nodular calcrete; 0.5m	0.4	41200	6.5	-1		250	0.4	113000	0.2	55	14.5	26	2.2	25	2.9	1.5	1.05	39500	11.5	3.6	3	0.53	-0.05	12200	32
R448194	BRA22	6387981	428822	3.6	nodular calcrete; 0.43m	0.2	40400	6	-1		250	0.4	102000	-0.1	55	12.5	29	2.2	23	2.8	1.45	1.1	41700	11.5	3.7	3	0.51	-0.05	11900	33
R448195	BRA23	6388031	428821	4.3	nodular calcrete; 0.4m	0.2	43300	7	-1		440	0.5	102000	0.1	53	13.5	30	2.3	21	3.1	1.65	1.25	43400	12.5	4	3	0.58	-0.05	11300	33.5
R448196	BRA24	6388074	428818	3.6	nodular calcrete; 0.6m	0.2	49100	7	-1		250	0.3	95900	0.1	52	12.5	27	2.8	25	3.1	1.65	1.1	35400	14	3.9	4	0.58	-0.05	12700	32.5
R448197	BRA25	6388131	428825	4.3	nodular calcrete; 0.6m	0.2	44800	7	1		300	0.4	107000	0.1	65	13.5	26	2.5	25	3.4	1.7	1.3	38900	13	4.5	3	0.61	-0.05	11800	40
R448198	BRA26	6388187	428825	4.3	nodular calcrete; 0.66m	0.2	47400	6.5	-1		270	0.4	86200	-0.1	52	13.5	29	2.6	26	2.9	1.5	1.1	37500	13.5	3.6	4	0.54	-0.05	13100	30
R448199	BRA27	6388230	428822	4	nodular calcrete; 0.6m	0.2	51500	6.5	-1		290	0.3	88800	0.1	61	13	29	2.9	26	3.2	1.65	1.2	37600	14.5	4	4	0.59	-0.05	14300	35.5
R448200	BRA28	6388277	428821	4.8	nodular calcrete; 0.57m	0.2	52300	7	-1		280	0.3	94200	0.1	59	13	30	3.1	27	3.3	1.75	1.25	35900	15	4.1	4	0.62	-0.05	14200	35
R448201	BRA29	6388330	428819	7.1	nodular calcrete; 0.6m	0.2	50200	6.5	1		320	0.5	86400	0.1	59	13	25	3	25	3.4	1.75	1.3	33500	15	4.3	4	0.63	-0.05	14000	35.5
R448202	BRA30	6388378	428827	4.7	nodular calcrete; 0.61m	0.2	48700	7	-1		350	0.3	83800	0.1	58	12.5	28	2.9	25	3.1	1.65	1.25	34700	14.5	4.1	3	0.59	-0.05	13700	34.5
R448203	BRA31	6388482	428833	6.1	nodular calcrete; 0.6m	0.2	44300	6	-1		260	0.3	81900	0.1	59	12.5	24	2.7	23	3.1	1.55	1.15	34600	13	4	3	0.56	-0.05	12900	35
R448204	BRA32	6388577	428833	4	nodular calcrete; 0.64m	0.2	49900	6	-1		290	0.3	78000	0.1	57	13	29	2.9	25	3.2	1.65	1.25	35000	14.5	4.1	4	0.59	-0.05	13700	34
R448205	BRA33	6388675	428831	3.8	nodular calcrete; 0.25m	0.2	39300	5.5	-1		290	0.3	99300	0.1	55	15	27	2.3	23	2.9	1.5	1.1	36700	12	3.8	3	0.51	-0.05	11500	33.5
R448206	BRA34	6388777	428836	3.9	nodular calcrete; 0.4m	0.2	48400	5	-1		280	0.3	61600	0.1	61	13	31	2.7	24	3.3	1.7	1.25	39200	14	4.2	4	0.6	-0.05	13700	36.5
R448207	BRA35	6388877	428838	4.1	nodular calcrete; 0.65m	0.2	47400	8	2		250	0.4	82100	-0.1	57	14	28	2.7	28	3.3	1.75	1.2	42000	14	4.3	3	0.6	-0.05	13100	35.5
R448208	BRA36	6388965	428838	5.5	nodular calcrete; 0.55m	0.2	44800	7.5	1	-1	260	0.5	69300	0.1	105	15.5	29	2.4	25	3.7	1.7	1.7	51000	13.5	6	3	0.61	-0.05	13700	64

Element	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
LLD	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																														
R448189	0.1	9400	400	0.8	4400	5	14.5	22	310	20	3.2	43.5	200	-0.5	-0.5	2.4	1.5	135	0.21	-0.2	6.5	4100	0.2	0.1	0.45	86	-0.1	16.5	0.75	51
R448190	0.2	9600	450	0.6	5450	10	27.5	22	310	10	6	49	200	-0.5	-0.5	4.5	1.5	125	0.39	-0.2	12	4850	0.4	0.2	1	76	0.5	16	1.45	54
R448191	0.19	9050	360	0.8	4400	5	35.5	21	290	15	8	48	200	-0.5	-0.5	5.5	1.6	170	0.44	-0.2	11	3800	0.4	0.2	0.94	75	0.5	16.5	1.45	45
R448192	0.2	9200	330	0.8	4000	-5	29	20	280	15	6.5	45.5	200	-0.5	-0.5	4.8	1.6	190	0.43	-0.2	10.5	3750	0.4	0.2	0.96	75	0.4	18	1.5	44
R448193	0.19	8500	420	0.8	4000	-5	27.5	19	250	15	6	44	200	-0.5	-0.5	4.6	1.5	210	0.41	-0.2	11	3950	0.3	0.2	0.95	76	0.4	16.5	1.45	41
R448194	0.19	8350	350	0.7	3950	5	28.5	20	280	15	6.5	43	200	-0.5	0.5	4.7	1.4	190	0.4	-0.2	10.5	4000	0.3	0.2	0.92	81	0.4	16.5	1.4	43
R448195	0.21	8250	400	0.7	3800	5	30	20	270	15	6.5	43	250	-0.5	0.5	5	1.3	165	0.45	-0.2	13.5	3800	0.3	0.2	1	90	0.6	18.5	1.55	44
R448196	0.22	9850	340	0.6	3850	5	28.5	20	270	15	6	49	200	-0.5	-0.5	4.9	1.7	155	0.44	-0.2	11.5	4050	0.4	0.2	1.05	86	0.7	18.5	1.65	47
R448197	0.22	9000	340	0.7	3700	5	35.5	20	280	15	7.5	46	200	-0.5	-0.5	6	1.4	165	0.5	-0.2	12.5	3700	0.3	0.25	1.05	90	0.6	19.5	1.65	44
R448198	0.21	9850	370	0.6	4000	5	27	22	300	15	6	49.5	200	-0.5	0.5	4.6	1.6	165	0.42	-0.2	11.5	4300	0.3	0.2	1.05	85	0.7	17	1.55	50
R448199	0.23	10400	380	0.4	4200	5	30.5	22	370	20	6.5	53	300	-0.5	-0.5	5	1.7	160	0.46	-0.2	12.5	4200	0.4	0.25	1.1	83	0.7	18	1.65	53
R448200	0.23	12500	360	0.5	3750	5	31	22	310	15	6.5	55	200	-0.5	0.5	5	1.7	165	0.48	-0.2	12	4000	0.3	0.25	1.05	88	0.8	19	1.7	51
R448201	0.23	11200	360	0.6	3850	5	32	20	300	15	7	54	250	-0.5	0.5	5.5	1.7	160	0.48	-0.2	11.5	4050	0.4	0.25	1.1	87	0.8	19	1.7	54
R448202	0.21	11100	350	0.5	3800	5	31	20	320	15	7	51	250	-0.5	0.5	5	1.6	160	0.46	-0.2	11	3800	0.4	0.25	1.05	85	0.7	17.5	1.6	49
R448203	0.2	12900	380	0.5	3800	5	31	19	280	15	7	48.5	150	-0.5	0.5	5.5	1.6	175	0.45	-0.2	11	4200	0.3	0.2	1.05	77	0.6	17	1.55	51
R448204	0.22	10600	380	0.4	3750	5	31	20	340	10	6.5	53	150	-0.5	0.5	5	1.7	135	0.46	-0.2	11.5	4100	0.3	0.25	1	78	0.7	18	1.65	51
R448205	0.19	7950	550	0.2	3950	-5	29.5	19	270	15	6.5	45	200	-0.5	0.5	5	1.2	170	0.43	-0.2	10	3900	0.4	0.2	0.93	72	0.3	16	1.45	49
R448206	0.22	9300	410	0.5	4350	5	33	22	310	15	7.5	52	200	-0.5	1	5.5	1.6	120	0.48	-0.2	11.5	4100	0.3	0.2	1	76	0.6	18	1.65	53
R448207	0.22	9450	380	0.5	3850	-5	32	25	320	15	7	50	300	-0.5	1	5.5	1.7	150	0.47	-0.2	11	3850	0.3	0.25	1.05	97	0.7	19	1.65	51
R448208	0.22	9300	450	0.5	4700	5	52	27	330	20	11.5	50	350	-0.5	1	8.5	1.6	165	0.62	-0.2	16.5	4650	0.3	0.2	1.2	92	0.7	18	1.6	53

Appendix 3.9
Analyses of RC drill hole samples with anomalous Cu concentrations

Appendix 3.9a. ICP analyses. BlueRose drill cuttings

					Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Hg	Ho	In	K	La
					Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E	IC3M
					LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.05	0.02	0.05	10	0.5
Sample_no	Field_no	Northing	Easting	Zone	Description																											
R446407	BRRC108-9	6388200	428800	54	greyish brown-orange talcose clays	0.4	61600	7	140	81		35	9	38300	-0.1	100	12.5	38	1.2	5900	4	1.8	1.55	41900	19.5	6	5	0.1	0.64	0.05	1800	60
R446408	BRRC109-10	6388200	428800	54	greyish brown-orange talcose clays	0.1	65400	3	15			35	2.9	6400	-0.1	81	11.5	42	1.1	4750	3.9	1.75	1.45	41000	20.5	5.5	5	-0.05	0.63	-0.05	2250	54
R446409	BRRC1031-32	6388200	428800	54	pale yellowish grey-gn talcose clays	0.1	60400	2.5	120	81		45	5.5	10200	1.3	78	10.5	36	1.8	2800	2.9	1.05	1.4	27200	19	4.8	5	-0.05	0.42	-0.05	4400	44
R446410	BRRC1032-33	6388200	428800	54	pale yellowish grey-gn talcose clays	0.1	57900	1.5	190	190	190	25	7.5	4950	-0.1	74	16.5	31	2.3	5950	2.5	0.95	1.15	30700	23	4	5	-0.05	0.37	-0.05	5400	41.5
R446411	BRRC1112-13	6388100	428800	54	greasy yellow-bn clays (with emerald-green mottles(?serpentine))	0.3	57200	4.5	-1			450	0.6	14800	0.2	115	41	63	0.8	10700	38	18	10	84900	26.5	39.5	5	-0.05	6.5	0.05	3900	300
R446412	BRRC1154-55	6388100	428800	54	foliated siliceous biotitic rock with disseminated sulfides	0.3	33500	6	30			20	1.3	40400	-0.1	33.5	12	32	3.3	3350	2.7	1.4	0.66	27900	16.5	2.9	3	-0.05	0.49	0.1	7300	18.5
R446413	BRRC1672-73	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.4	27100	1.5	27			85	0.7	29800	0.3	19	11	24	5	5700	1.35	0.7	0.33	30500	11	1.45	3	-0.05	0.25	0.15	27600	10.5
R446414	BRRC1673-74	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.4	32500	1	5			75	0.7	35200	0.2	24	15	17	7	7900	2.2	1.15	0.49	30200	14	2.1	3	-0.05	0.39	0.15	33200	13.5
R446415	BRRC1674-75	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.3	27000	2	55			70	0.5	34600	0.1	22.5	12	12	4.4	4900	1.15	0.55	0.29	27000	11	1.25	3	-0.05	0.2	0.1	23400	12.5
R446416	BRRC1675-76	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.5	26800	2	110	92	130	85	1.2	22400	0.4	25	15.5	13	4.3	10200	1.5	0.75	0.33	33600	10	1.6	3	-0.05	0.28	0.2	23900	14.5
R446417	BRRC1676-77	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.9	28200	2	99			95	1.8	25300	0.5	26	16.5	14	5	12500	1.25	0.6	0.33	33900	11.5	1.45	3	-0.05	0.21	0.25	27100	15.5
R446418	BRRC1677-78	6388200	428200	54	chlorite-muscovite schist with qz veinlets and yellow-gn serpentine	0.1	15400	1.5	10			55	0.3	65100	0.1	23	7	7	1.5	950	1.9	1	0.39	21200	6.5	1.85	2	-0.05	0.35	-0.05	6800	13
R446419	BRRC1812-13	6388200	428900	54	greenish yellow-bn talcose clays; some chalcedony(?contamination)	0.8	39200	4	74			5	2.9	18700	0.2	57	33.5	33	0.6	4900	4.9	2.6	1	69300	23	5.5	2	-0.05	0.91	0.1	900	36.5
R446420	BRRC1813-14	6388200	428900	54	yellow-bn talcose clays	0.3	43800	5.5	61			-5	3.7	4850	-0.1	65	63	30	0.4	6800	4	2.3	0.86	71400	23.5	4.4	3	-0.05	0.77	-0.05	700	41
R446421	BRRC1818-19	6388200	428900	54	greenish brown talcose clays	0.3	44000	3	170	130	140	20	3.6	5250	-0.1	72	46	27	0.4	13200	3.5	1.8	0.96	87800	22.5	4.6	3	-0.05	0.62	0.3	850	45
R446422	BRRC1819-20	6388200	428900	54	yellowish olive talcose clays	0.2	39500	2.5	75			-5	0.6	10200	-0.1	58	28	22	0.4	6550	3.5	2.1	0.73	58700	20.5	4	3	-0.05	0.69	0.2	850	37.5
R446423	BRRC1864-65	6388200	428900	54	siliceous rock with lizardite (and?diopside)	0.3	6100	-0.5	46	51		15	3.2	192000	-0.1	13.5	4	-2	1.2	1900	1.2	0.65	0.33	8650	2.9	1.25	-1	-0.05	0.23	0.05	4000	8
R446424	BRRC1865-66	6388200	428900	54	siliceous rock with lizardite (and?diopside)	0.9	16100	1	87			30	7	120000	-0.1	19.5	9.5	4	3.7	8150	2	1.05	0.4	24900	8.5	2	1	-0.05	0.36	0.25	10300	12
R446425	BRRC1884-85	6388200	428900	54	siliceous rock with lizardite	0.5	14700	1	22			30	0.9	56300	-0.1	17.5	14	-2	2.7	3700	1.6	0.85	0.34	28900	8.5	1.75	-1	-0.05	0.29	0.1	9850	10.5
R446426	BRRC1885-86	6388200	428900	54	very friable, chloritic and biotitic schists	1.5	32500	1	65			70	1.3	47300	-0.1	35.5	22.5	13	9.5	12900	2.2	1.05	0.56	35100	17	2.7	3	-0.05	0.38	0.2	32900	21
R446427	BRRC1886-87	6388200	428900	54	very friable, chloritic and biotitic schists	1.8	43400	2	92			95	6	27400	-0.1	61	24.5	22	13	12700	2.2	1.05	0.69	45000	21.5	3.4	3	-0.05	0.39	0.2	49300	36.5
R446428	BRRC1887-88	6388200	428900	54	very friable, chloritic and biotitic schists	1.2	37800	4.5	81			50	2.3	31000	-0.1	52	19.5	14	9	8450	2.2	1.5	0.75	36200	18.5	3.6	3	-0.05	0.53	0.2	26500	31

Element	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
LLD	0.02	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																
R446407	0.26	47700	110	5.5	33400	-5	45	26	160	10	-20	12	-0.2	7.5	450	-0.5	1	8.5	2	100	0.66	1.8	16	2550	0.1	0.25	4	81	1.5	19	1.8	27
R446408	0.25	49400	150	10.5	36700	-5	41	28	155	5	-20	11	-0.2	8.5	250	-0.5	1.5	8	1.5	66	0.65	0.5	18.5	3100	0.1	0.25	5.5	81	1.6	18.5	1.7	21
R446409	0.15	62300	180	4.7	37300	-5	36.5	23	750	10	-20	9.5	-0.2	18	300	-0.5	-0.5	7.5	2.1	59	0.53	1.1	18.5	2550	0.2	0.15	3.4	61	1.3	12	1	19
R446410	0.14	104000	170	5.5	28300	-5	33	29	340	-5	-20	9	-0.2	22.5	-50	-0.5	-0.5	6.5	1.5	65	0.44	1.2	20	2600	0.2	0.15	3.9	80	0.6	10.5	0.95	12
R446411	2.4	34200	390	32	4600	5	270	220	240	15	-20	70	-0.2	11.5	250	-0.5	1	54	2.9	96	5.5	-0.2	21.5	4350	0.2	2.5	2.8	99	1.6	155	18	700
R446412	0.18	172000	1250	65	3800	-5	16.5	18	470	-5	-20	4.2	-0.2	40	3750	-0.5	5	3.6	1.7	47.5	0.39	0.2	10	2050	0.5	0.2	4.9	63	2.2	15	1.4	48
R446413	0.13	171000	480	1	750	-5	9	14	270	-5	-20	2.3	-0.2	130	8900	-0.5	1.5	1.85	1.2	26	0.19	0.2	4.9	1700	0.9	0.1	1.6	30	0.6	7	0.8	41
R446414	0.2	146000	450	2.8	1850	-5	12	17	340	-5	-20	3	-0.2	165	11800	-0.5	1.5	2.6	1.9	31	0.29	0.3	6.5	1850	1.1	0.15	4.3	34	0.2	10.5	1.25	32
R446415	0.1	162000	550	2.3	800	-5	9	18	270	-5	-20	2.5	-0.2	110	8200	-0.5	1	1.8	1.3	32.5	0.17	0.3	6	1600	0.7	0.1	1.95	27	0.6	5.5	0.6	28
R446416	0.11	174000	420	2.9	750	-5	10.5	20	650	-5	-20	2.8	-0.2	110	13500	-0.5	3	2	2	23.5	0.21	0.5	7	1650	0.8	0.1	2.6	28	0.7	7	0.8	38
R446417	0.09	163000	410	6	750	-5	10	20	240	-5	-20	2.7	-0.2	125	16500	-0.5	3	1.95	2.7	22.5	0.18	1	6	1800	0.9	0.1	2.3	31	0.7	5.5	0.6	45
R446418	0.16	170000	700	1	210	-5	10.5	9	220	-5	-20	2.7	-0.2	32	2000	-0.5	-0.5	2.2	0.8	86	0.26	-0.2	7.5	900	0.3	0.15	2.6	22	0.6	10	1.1	17
R446419	0.32	104000	300	6.5	8250	-5	25	26	95	5	-20	7	-0.2	4.4	-50	-0.5	1	5.5	1.3	165	0.72	1.2	11.5	2350	0.4	0.4	2.1	66	1.1	32	2.6	99
R446420	0.29	116000	320	13	8250	-5	24.5	36	110	5	-20	7	-0.2	2.7	-50	-0.5	5	5	1.3	130	0.6	1.7	16	2550	0.2	0.35	2.8	82	1.2	26	2.4	80
R446421	0.22	83400	350	4.2	9400	-5	31	18	270	5	-20	8.5	-0.2	3.2	100	-0.5	7.5	6	3.6	125	0.56	1	15.5	2450	0.4	0.25	4.5	67	0.6	20.5	1.75	48
R446422	0.26	101000	280	4.6	12800	-5	24	18	320	-5	-20	6.5	-0.2	3.1	-50	-0.5	1	4.4	2.5	160	0.52	0.3	13	2400	0.1	0.3	1.85	60	0.5	26	2.1	70
R446423	0.08	95500	1050	39	200	-5	6	-2	240	-5	-20	1.6	-0.2	24.5	2150	-0.5	0.5	1.45	0.4	240	0.18	0.3	1.95	360	0.3	0.1	2.5	13	0.4	8	0.7	11
R446424	0.14	116000	800	41	1800	-5	9.5	7	320	-5	-20	2.5	-0.2	67	8150	-0.5	7	2.2	1.6	160	0.27	1	6	1000	0.7	0.15	2.7	33	1.1	12.5	1.1	22
R446425	0.1	138000	1100	40	650	-5	8	10	140	-5	-20	2.1	-0.2	53	5700	-0.5	3	1.9	0.8	33	0.24	0.4	3.7	850	1	0.1	1.7	40	1	10	0.75	37
R446426	0.13	126000	1250	390	2500	-5	14.5	14	100	5	-20	4	-0.2	185	16400	-0.5	15.5	3.2	2.1	47.5	0.34	0.6	9	1800	1.3	0.15	2.3	70	0.7	12	1.05	54
R446427	0.13	117000	600	380	3700	-5	23.5	26	120	-5	-20	6.5	-0.2	260	22400	-0.5	17	4.6	2.8	55	0.4	0.6	14.5	2500	1.6	0.15	3.2	89	0.4	12	1.05	55
R446428	0.19	120000	600	340	7650	-5	21.5	14	230	-5	-20	6	-0.2	155	11100	-0.5	9.5	4.5	2.1	110	0.47	0.5	15.5	2050	1.1	0.2	5.5	64	0.7	17	1.45	42

Appendix 3.9b. XRF analyses.

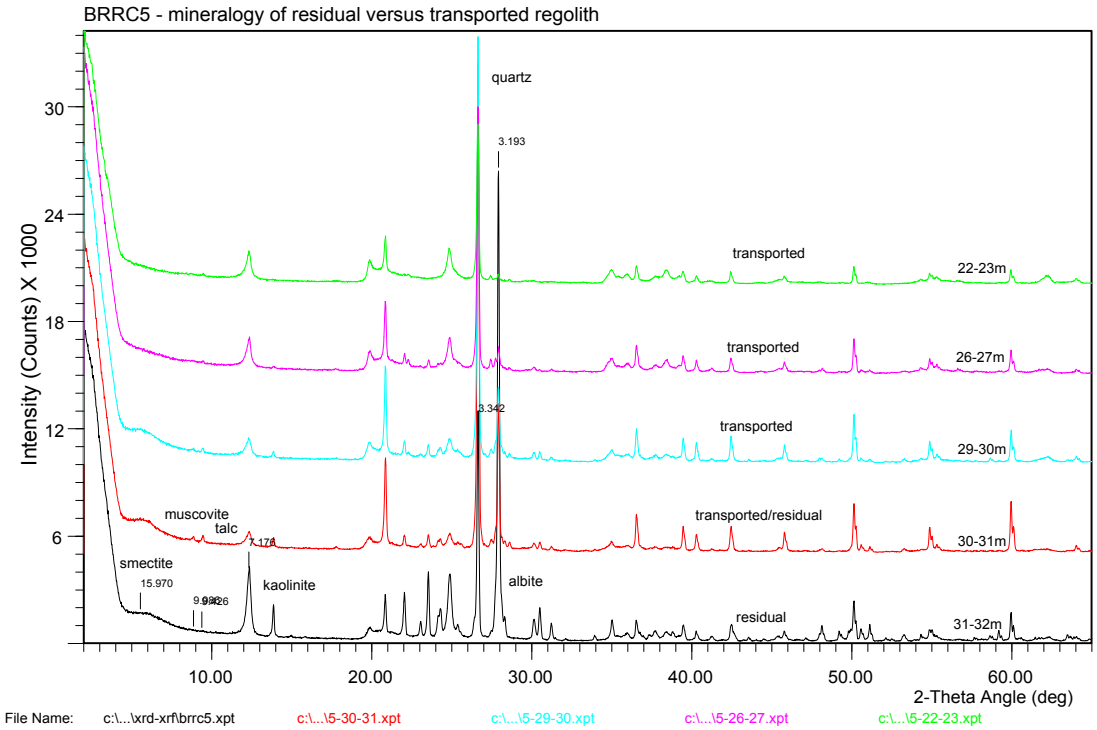
Sample_no	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOD	LOI	Ba	Ce	Cl	Cr	Co	Cu	Ga	La	Ni	Nb	Pb	Rb	S	Sr	V	Y	Zn	Zr	OXIDES	TotalTr	TOTALox+lod+loi
Detection limit	0.01	0.01	0.005	0.002	0.01	0.001	0.01	0.001	0.003	0.002			20	15	20	10	10	10	3	10	10	4	5	5	10	5	5	5	5	5			
Units	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
BRRC1031-32	56.06	12.81	4.24	0.03	10.55	1.47	5	0.52	0.68	0.174	3.68	4.94	46	72	90	45	12	2800	17	44	17	8	15	21	340	61	63	34	17	215	91.5	3922	100.1
BRRC1032-33	49.41	12.03	4.51	0.028	16.92	0.72	3.76	0.62	0.58	0.089	5.46	5.66	-20	77	120	46	17	5784	17	36	24	4	15	22	90	59	85	30	14	176	88.7	6632	99.8
BRRC108-9	49.14	12.37	6.02	0.017	7.72	5.28	4.25	0.2	0.61	0.032	5.13	8.92	-20	104	60	47	10	5450	16	55	17	8	19	8	430	101	85	36	29	183	85.6	6667	99.7
BRRC108-9dup	48.97	12.44	6.04	0.018	7.72	5.3	4.23	0.2	0.61	0.035	4.98	8.84	42	106	80	47	14	5520	16	56	17	7	21	6	430	100	80	42	29	186	85.6	6797	99.4
BRRC109-10	55.27	13.37	6.07	0.024	8.25	0.92	4.83	0.26	0.69	0.037	4.68	5.2	23	81	90	43	15	4622	15	52	16	6	16	6	240	69	81	36	22	216	89.7	5652	99.6
BRRC1112-13	47.78	12.8	13.52	0.063	5.97	2.26	0.63	0.48	0.83	0.064	4.9	9.83	545	27	90	53	47	10543	17	282	223	7	20	13	310	93	109	161	700	192	84.4	13431	99.1
BRRC1154-55	38.24	7.32	4.25	0.194	28.28	6.19	0.49	0.84	0.33	0.132	1.49	11.21	-20	28	100	25	11	3455	12	22	14	-4	8	37	3300	47	68	15	53	89	86.3	7297	99
BRRC1672-73	35.05	6.43	4.94	0.085	30.23	4.84	0.1	3.48	0.3	0.069	0.28	10.88	89	26	70	22	13	5835	9	-10	13	-4	11	151	7770	28	38	10	48	81	85.5	14218	96.7
BRRC1673-74	35.99	7.6	4.86	0.079	26.25	5.76	0.24	4.23	0.32	0.084	0.83	8.92	68	25	110	26	18	8546	11	11	11	-4	10	178	10250	31	39	11	37	89	85.4	19471	95.2
BRRC1674-75	36.24	6.32	4.36	0.095	28.88	5.67	0.11	2.92	0.28	0.068	0.37	11.81	66	27	80	13	15	5164	10	11	14	-4	10	125	7090	33	25	8	29	82	84.9	12804	97.1
BRRC1675-76	36.08	6.23	5.42	0.073	30.53	3.6	0.07	2.96	0.29	0.152	0.41	10.13	90	27	90	20	18	10623	8	-10	21	-4	11	126	11970	26	37	10	48	86	85.4	23208	95.9
BRRC1676-77	35.24	6.66	5.46	0.071	29.14	4.17	0.09	3.39	0.31	0.064	0.45	9.65	91	21	90	21	22	13110	8	12	16	-4	14	146	14610	25	40	7	64	78	84.6	28366	94.7
BRRC1676-77dup	35.16	6.71	5.45	0.071	29.06	4.17	0.05	3.4	0.3	0.069	0.33	9.87	82	34	100	21	19	13085	9	13	15	-4	12	142	14700	26	38	8	62	83	84.4	28451	94.6
BRRC1677-78	26.88	3.75	3.56	0.124	30.95	11.14	-0.02	0.87	0.17	0.059	0.27	21.77	29	32	80	11	-10	1045	7	12	-10	-4	16	35	1830	87	23	13	25	46	77.5	3300	99.5
BRRC1812-13	36.94	8.9	11.2	0.051	18.29	2.98	1.15	0.11	0.4	0.022	8.06	12.35	-20	60	-20	49	23	5037	13	21	27	-4	18	-5	80	145	76	29	111	134	80	5799	100.4
BRRC1813-14	37.67	9.89	11.58	0.055	20.6	0.8	1.16	0.09	0.45	0.028	7.6	10.25	-20	78	-20	48	53	7107	13	27	32	-4	19	-5	90	115	89	23	91	142	82.3	7897	100.1
BRRC1818-19	36.45	10.57	15.01	0.064	16.01	0.89	1.4	0.11	0.46	0.072	8.55	9.48	-20	73	120	36	35	14755	13	37	15	-4	19	-5	150	114	81	17	65	141	81	15681	99
BRRC1819-20	39.97	9.25	9.73	0.05	18.21	1.69	1.8	0.11	0.42	0.096	10.42	8.47	-20	64	160	34	23	6910	13	28	16	-4	9	-5	60	152	72	23	83	96	81.3	7736	100.2
BRRC1864-65	9.41	1.36	1.37	0.179	16.66	32.54	-0.03	0.49	0.08	0.063	0.14	36.09	-20	29	20	13	-10	2067	-3	-10	-10	-4	-5	24	2220	248	15	9	15	23	62.1	4643	98.4
BRRC1865-66	23.55	3.86	4.02	0.148	20.96	19.33	0.2	1.25	0.18	0.087	1.24	21.54	-20	30	100	-10	-10	8463	6	14	-10	-4	12	68	7010	159	35	16	30	68	73.6	16039	96.4
BRRC1884-85	40.79	3.51	4.57	0.193	24.46	9.28	0.07	1.19	0.14	0.029	0.51	13.63	-20	22	100	-10	13	3804	5	-10	-10	-4	16	53	4850	33	42	12	48	44	84.2	9065	98.3
BRRC1885-86	35.18	7.33	5.64	0.225	22.48	7.74	0.33	4.05	0.31	0.03	1.64	10.49	53	37	290	21	17	13441	10	15	11	-4	9	184	13930	44	73	12	69	100	83.3	28310	95.4
BRRC1886-87	37.49	9.9	7.18	0.107	21.02	4.41	0.51	6.08	0.43	0.027	2.16	7.73	76	66	460	34	21	11476	16	34	25	-4	15	266	16700	54	93	15	68	136	87.2	29555	97.1
BRRC1886-87dup	37.04	9.74	7.14	0.105	20.68	4.36	0.47	6	0.42	0.027	2.09	7.87	84	49	510	33	23	12773	16	23	24	-4	14	263	18670	53	93	15	66	137	86	32839	96
BRRC1887-88	38.36	8.62	5.93	0.101	21.54	5.17	1.02	3.28	0.35	0.059	4.95	7.21	27	49	410	21	17	8136	12	24	14	-4	13	148	10150	100	69	17	52	135	84.4	19397	96.6

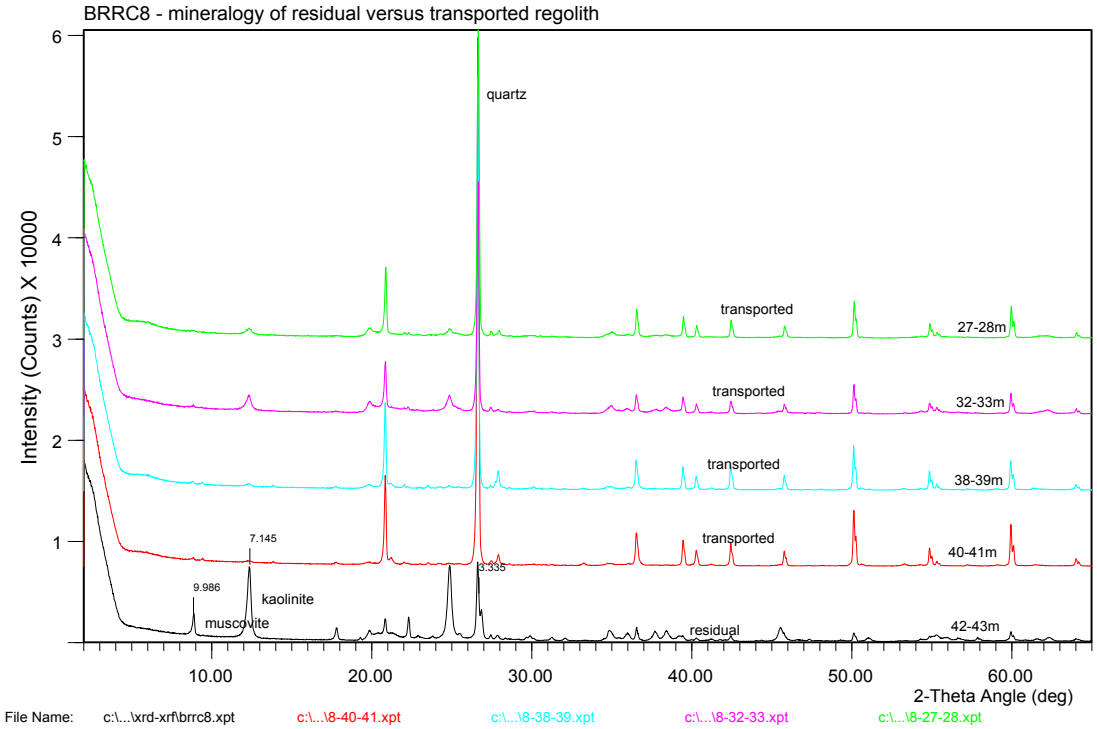
Appendix 3.10
Analyses of calcrete samples from pit

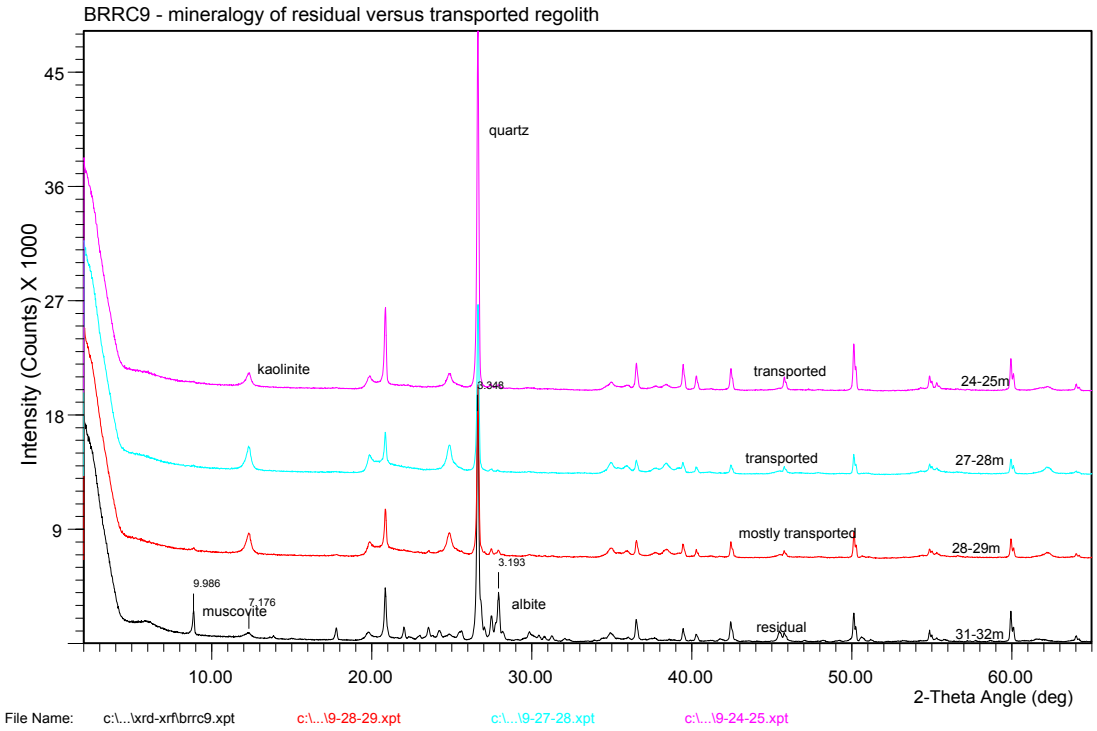
Appendix 3.10. Blue Rose Soil Profile

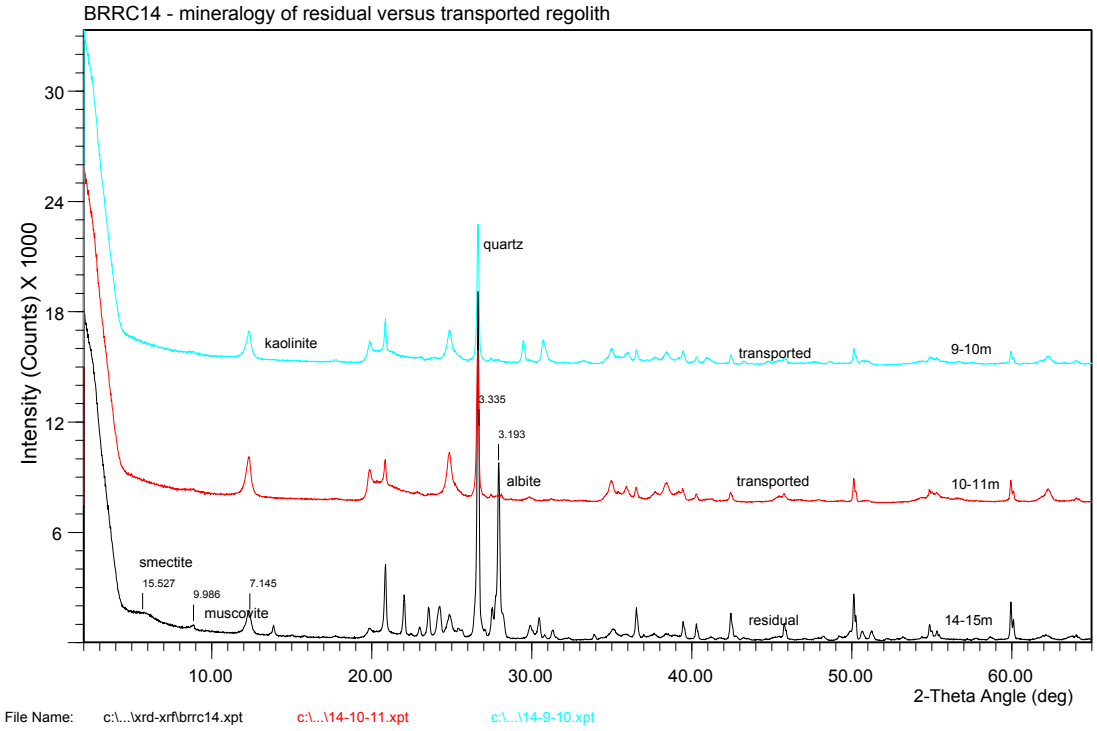
					Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	
					Units	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
					Scheme	IC3M	IC3E	IC3M	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M	
					LLD	0.1	10	0.5	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02	0.05	10	0.5	
Sample_no	Field_no	Northing	Easting	Error	Description																									
R448183	BRP1	6388074	428818	3.6	nodular and powdery calcrete; 0-10cm	0.2	57400	7.5	4	290	0.3	37200	0.1	55	14.5	42	3.1	31	3.3	1.6	1.15	45400	14.5	4.1	3	0.55	0.05	15600	33	
R448184	BRP2	6388074	428818	3.6	nodular and powdery calcrete; 10-20cm	0.1	45700	7	3	260	0.2	119000	0.1	49.5	13	35	2.3	28	3	1.45	1.15	37500	11.5	4.1	2	0.56	-0.05	11000	32	
R448185	BRP3	6388074	428818	3.6	nodular and powdery calcrete; 20-30cm	-0.1	36500	9	5	270	0.1	217000	0.1	34	12	27	1.9	23	2.9	1.45	1	27900	8.5	4	2	0.54	-0.05	7950	27.5	
R448186	BRP4	6388074	428818	3.6	nodular and powdery calcrete; 30-40cm	-0.1	30500	5.5	4	470	-0.1	218000	0.2	31.5	9.5	19	1.6	19	2.8	1.3	1.05	19500	7.5	3.8	1	0.5	-0.05	6250	25	
R448187	BRP5	6388074	428818	3.6	nodular and powdery calcrete; 40-50cm	-0.1	34900	7	4	270	0.1	201000	0.1	33.5	10	25	1.8	21	2.8	1.4	0.96	22600	8	3.7	2	0.49	-0.05	7100	27.5	
Element	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
LLD	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																														
R448183	0.27	10000	480	0.8	4500	10	26.5	21	280	10	7	57	200	-0.5	-0.5	5.5	2.3	95	0.49	-0.2	12.5	5250	0.4	0.25	1.25	89	1.1	17	1.7	63
R448184	0.24	9250	320	0.6	3450	5	26.5	17	280	-5	7	41.5	250	-0.5	-0.5	5.5	2	150	0.47	-0.2	10	3750	0.2	0.25	1.1	83	0.5	17.5	1.55	47
R448185	0.25	12200	310	0.4	2750	-5	23	13	290	-5	6	28	300	-0.5	-0.5	4.6	1.4	250	0.44	-0.2	7.5	2800	0.2	0.2	1	72	0.4	18	1.55	35
R448186	0.23	14900	195	0.3	2500	-5	20	10	250	-5	5.5	24	350	-0.5	-0.5	4.5	1.6	280	0.43	-0.2	5.5	2350	0.1	0.2	0.95	61	0.2	18	1.4	31
R448187	0.21	11800	220	0.3	3000	-5	22.5	11	250	-5	6	25.5	300	-0.5	-0.5	4.6	1.6	260	0.43	-0.2	7	2750	0.2	0.2	1	75	0.4	16.5	1.35	33

Appendix 3.11
XRD results

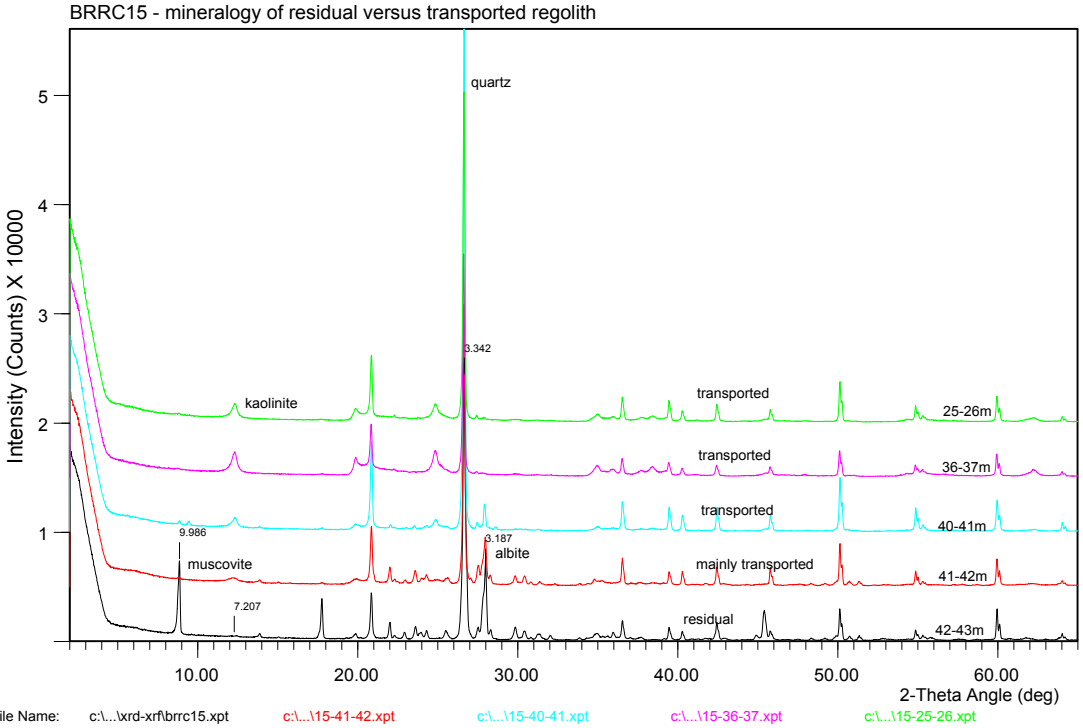

BRRC5 - mineralogy of residual versus transported regolith
Intensity (Counts) X 1000
30
24
18
12
6
quartz
3.193
3.342
transported
22-23m
transported
26-27m
transported
29-30m
transported/residual
30-31m
residual
31-32m
muscovite
talc
7.178
smectite
15.970
kaolinite
albite
10.00
20.00
30.00
40.00
50.00
60.00
2-Theta Angle (deg)
File Name:
c:\...\xrd-xrf\brrc5.xpt
c:\...\5-30-31.xpt
c:\...\5-29-30.xpt
c:\...\5-26-27.xpt
c:\...\5-22-23.xpt


BRRC8 - mineralogy of residual versus transported regolith
Intensity (Counts) X 10000
6
5
4
3
2
1
quartz
transported
27-28m
transported
32-33m
transported
38-39m
transported
40-41m
residual
42-43m
7.145
3.335
9.986
kaolinite
muscovite
10.00
20.00
30.00
40.00
50.00
60.00
2-Theta Angle (deg)
File Name:
c:\...\xrd-xrf\brrc8.xpt
c:\...\8-40-41.xpt
c:\...\8-38-39.xpt
c:\...\8-32-33.xpt
c:\...\8-27-28.xpt


BRRC9 - mineralogy of residual versus transported regolith
Intensity (Counts) X 1000
45
36
27
18
9
quartz
kaolinite
transported
24-25m
3.348
transported
27-28m
mostly transported
28-29m
3.193
9.986
7.176
muscovite
albite
residual
31-32m
10.00
20.00
30.00
40.00
50.00
60.00
2-Theta Angle (deg)
File Name:
c:\...\xrd-xrf\brrc9.xpt
c:\...\9-28-29.xpt
c:\...\9-27-28.xpt
c:\...\9-24-25.xpt

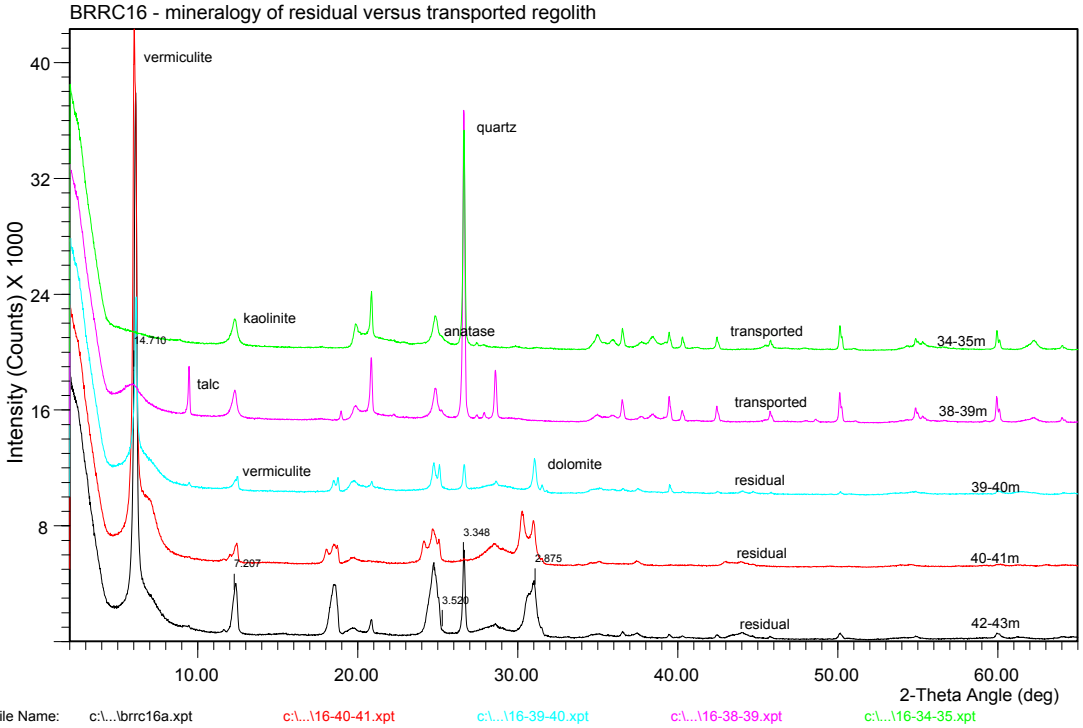

BRRC14 - mineralogy of residual versus transported regolith
Intensity (Counts) X 1000
30
24
18
12
6
quartz
kaolinite
transported
9-10m
3.335
3.193
albite
transported
10-11m
smectite
15.527
9.986
7.145
muscovite
residual
14-15m
10.00
20.00
30.00
40.00
50.00
60.00
2-Theta Angle (deg)
File Name:
c:\...\xrd-xrf\brrc14.xpt
c:\...\14-10-11.xpt
c:\...\14-9-10.xpt

BRRC15 - mineralogy of residual versus transported regolith

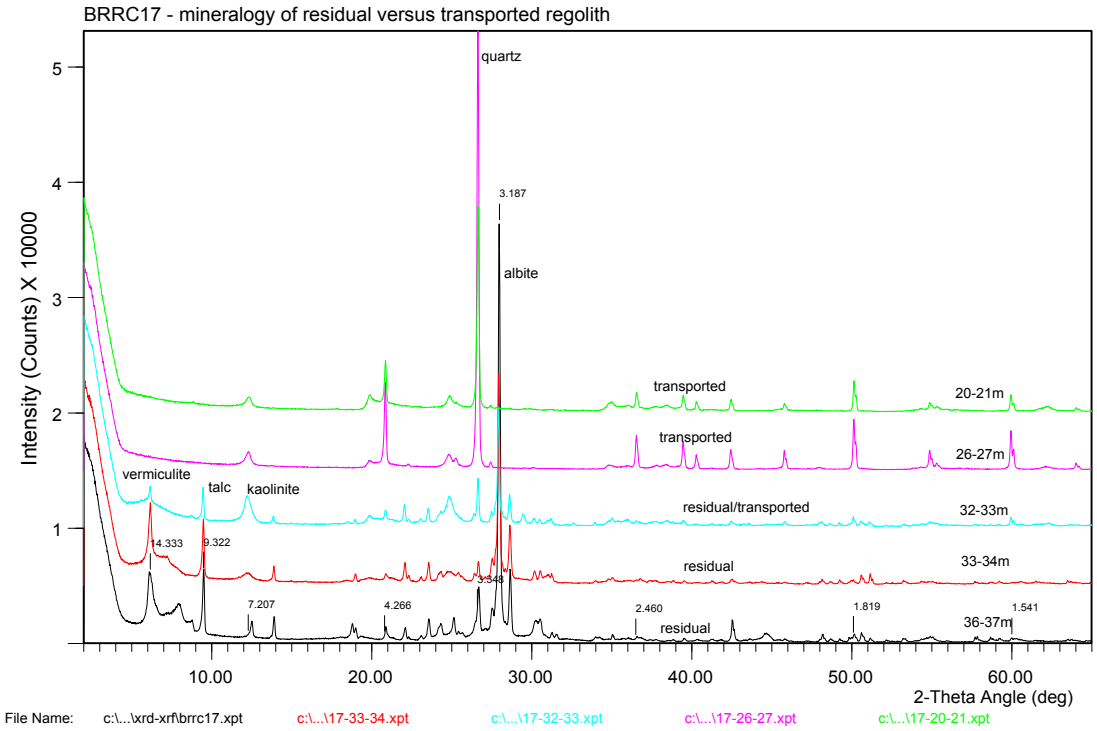


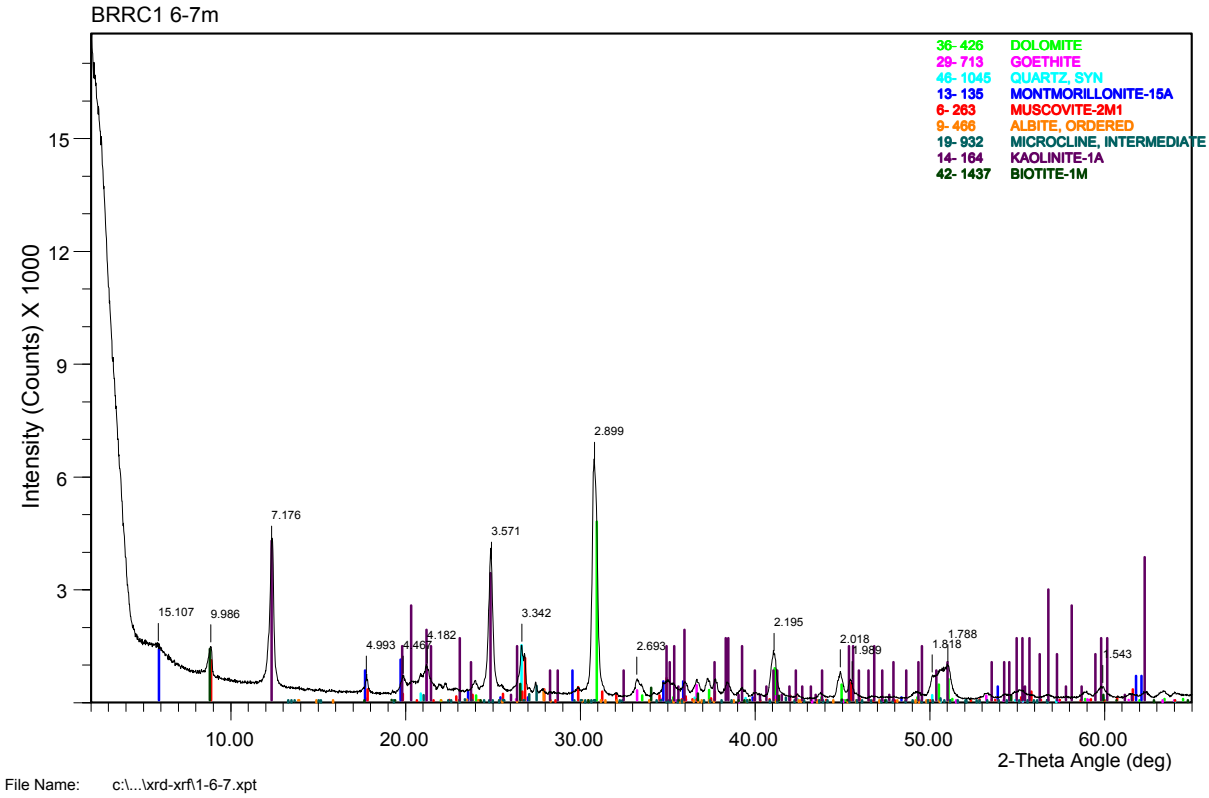
File Name: c:\...\xrd-xrf\brrc15.xpt c:\...\15-41-42.xpt c:\...\15-40-41.xpt c:\...\15-36-37.xpt c:\...\15-25-26.xpt

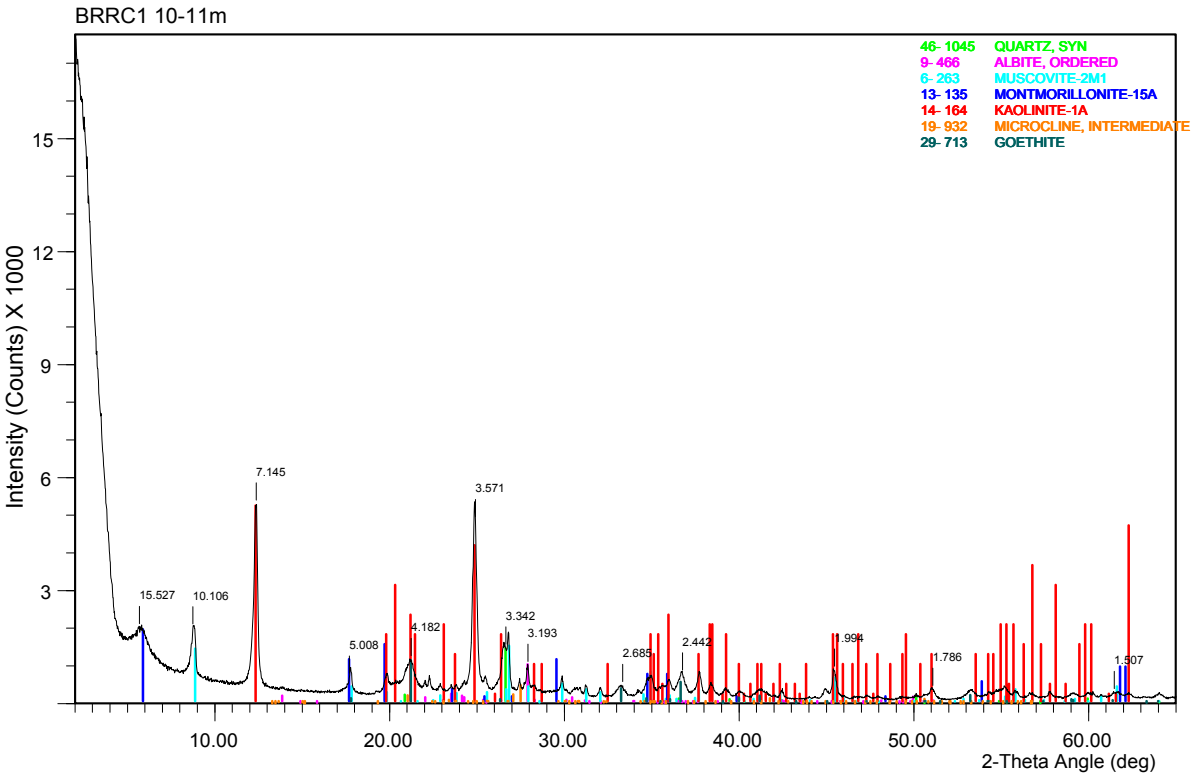
BRRC16 - mineralogy of residual versus transported regolith



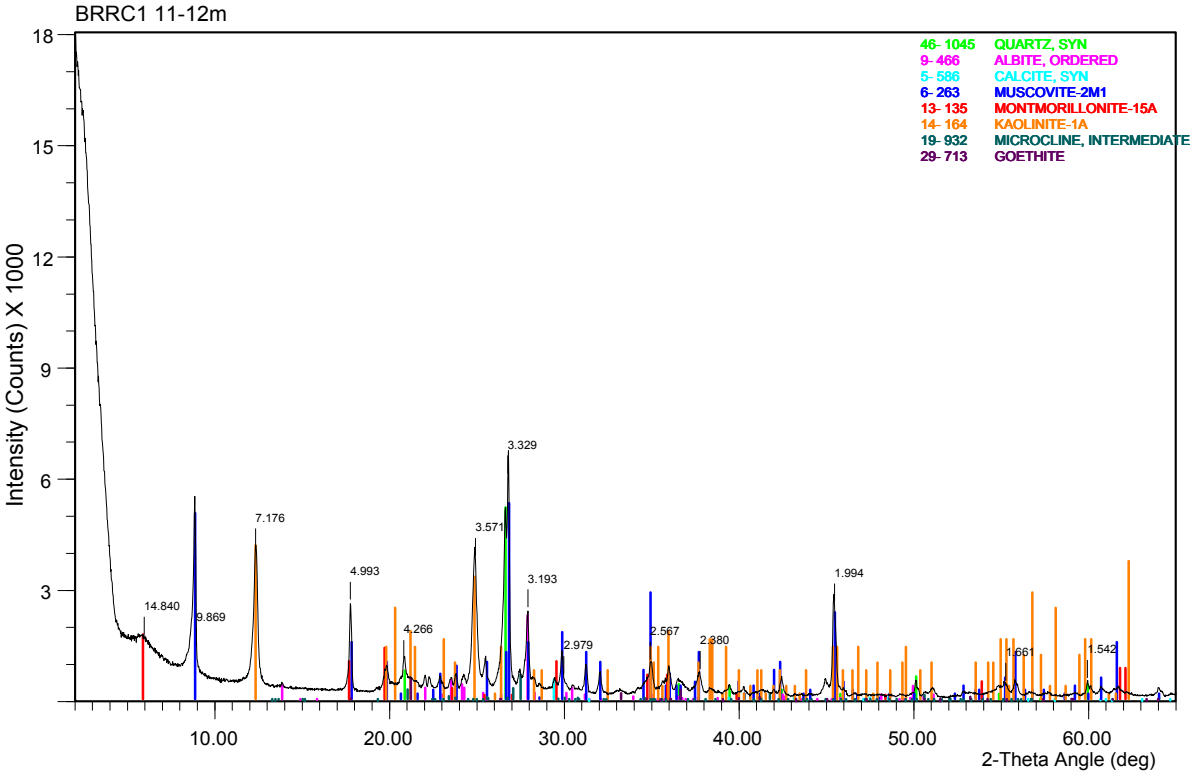
File Name: c:\...\brrc16a.xpt c:\...\16-40-41.xpt c:\...\16-39-40.xpt c:\...\16-38-39.xpt c:\...\16-34-35.xpt


BRRC17 - mineralogy of residual versus transported regolith
Intensity (Counts) X 10000
2-Theta Angle (deg)
quartz
albite
3.187
transported
20-21m
transported
26-27m
vermiculite
talc
kaolinite
residual/transported
32-33m
14.333
9.322
residual
33-34m
3.343
7.207
4.266
2.460
1.819
1.541
residual
36-37m
File Name: c:\...\xrd-xrf\brrc17.xpt
c:\...\17-33-34.xpt
c:\...\17-32-33.xpt
c:\...\17-26-27.xpt
c:\...\17-20-21.xpt

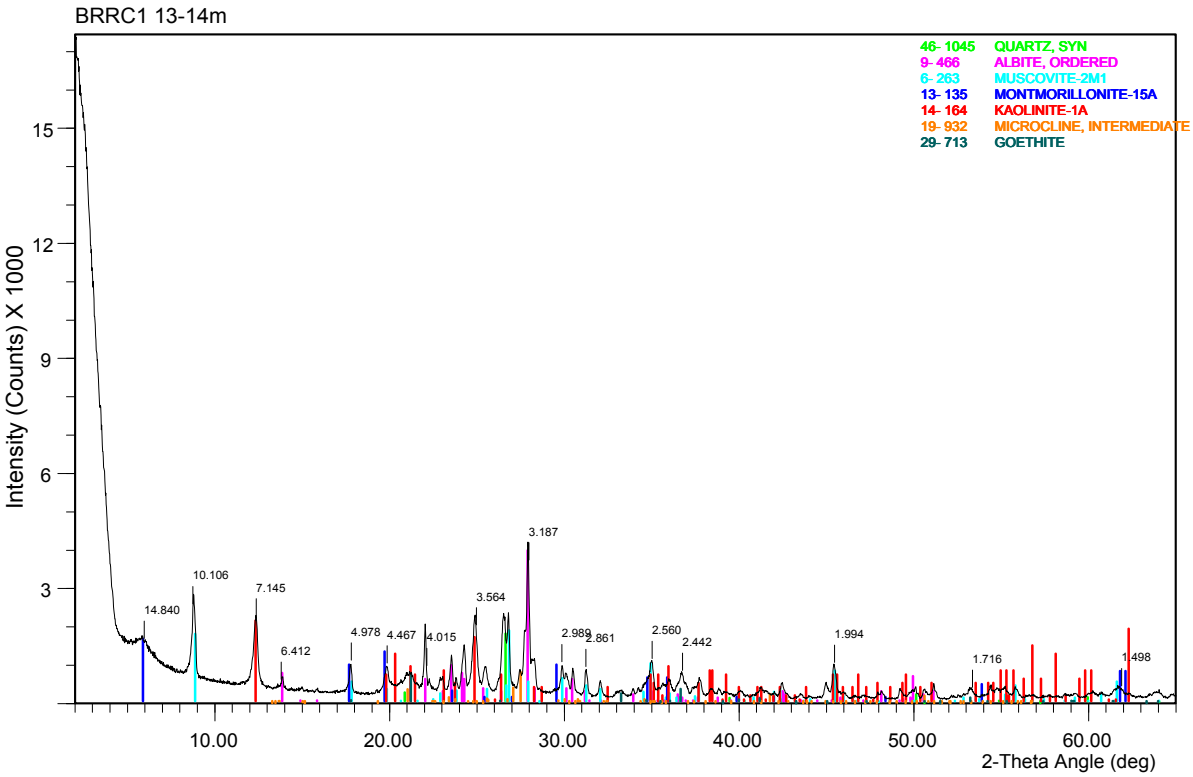

BRRC1 6-7m
36- 426 DOLOMITE
29- 713 GOETHITE
46- 1045 QUARTZ, SYN
13- 135 MONTMORILLONITE-15A
6- 263 MUSCOVITE-2M1
9- 466 ALBITE, ORDERED
19- 932 MICROCLINE, INTERMEDIATE
14- 164 KAOLINITE-1A
42- 1437 BIOTITE-1M
Intensity (Counts) X 1000
2-Theta Angle (deg)
2.899
7.176
3.571
15.107
9.986
3.342
4.993
4.467
4.182
2.693
2.195
2.018
1.989
1.818
1.788
1.543
File Name: c:\...\xrd-xrf\1-6-7.xpt



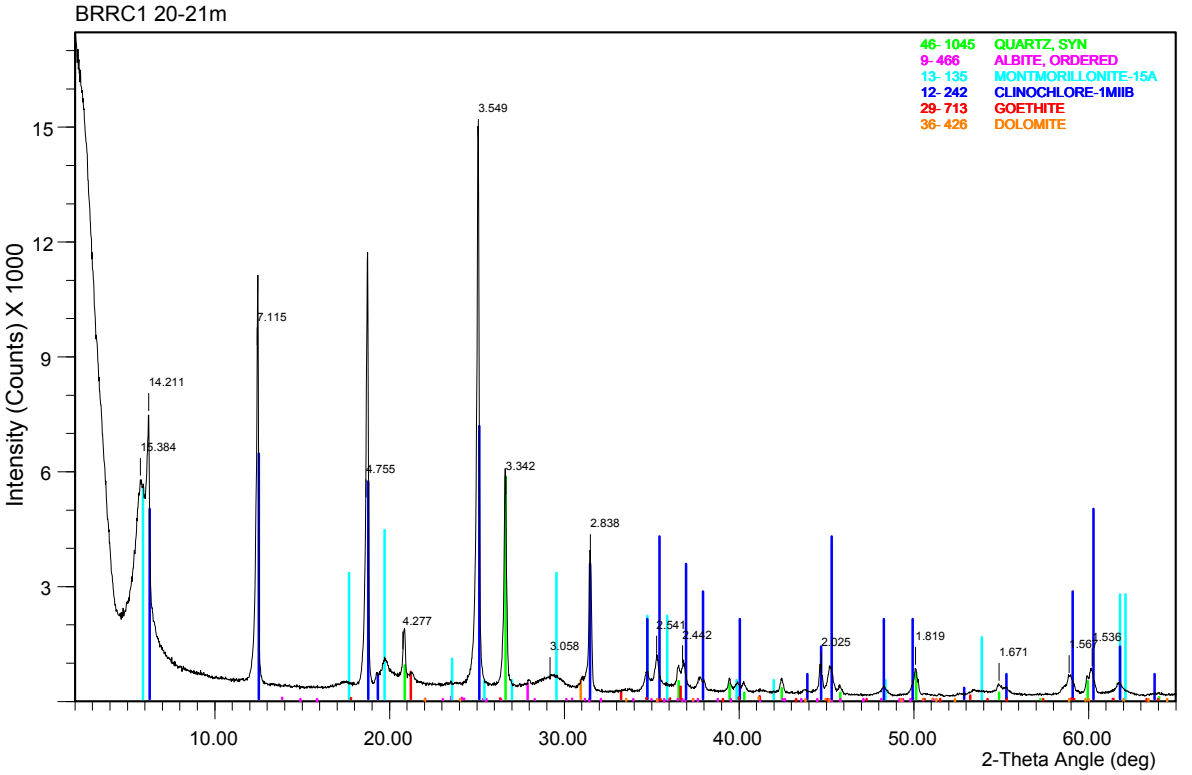
File Name: c:\...\1-10-11.xpt



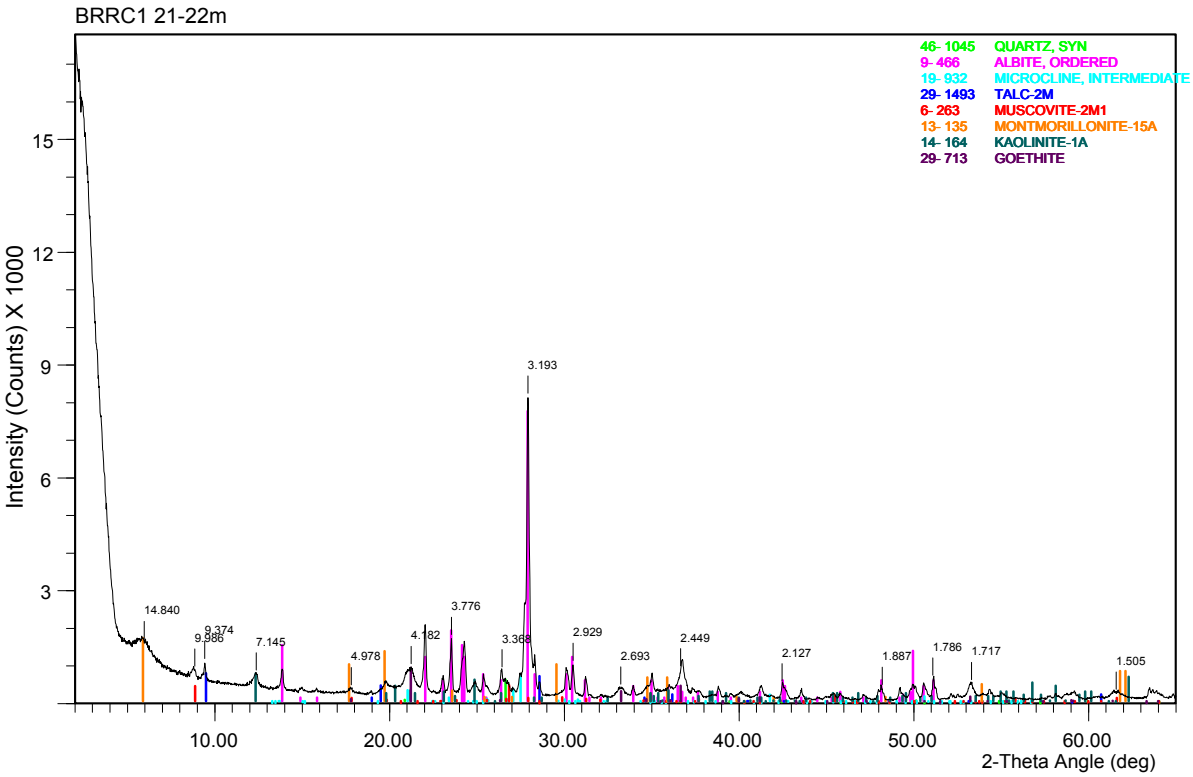
File Name: c:\...\1-11-12.xpt



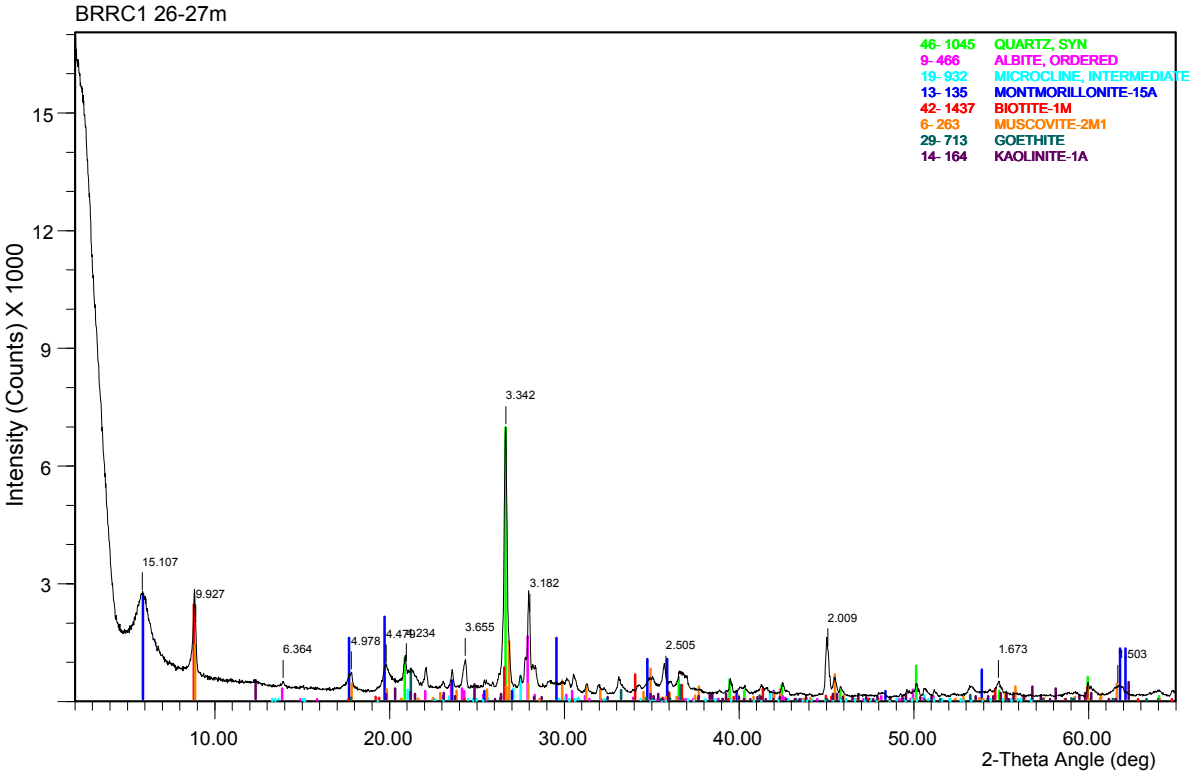
File Name: c:\...\1-13-14.xpt



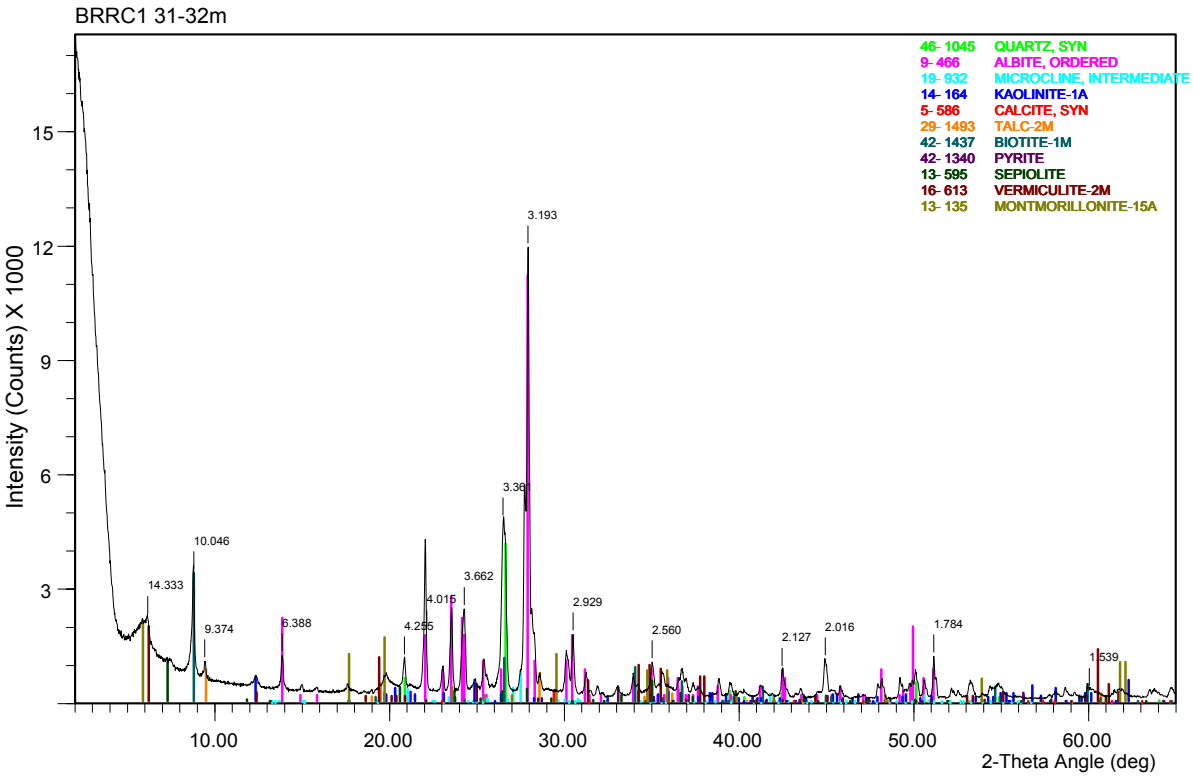
File Name: c:\...\xrd-xrf\1-20.xpt



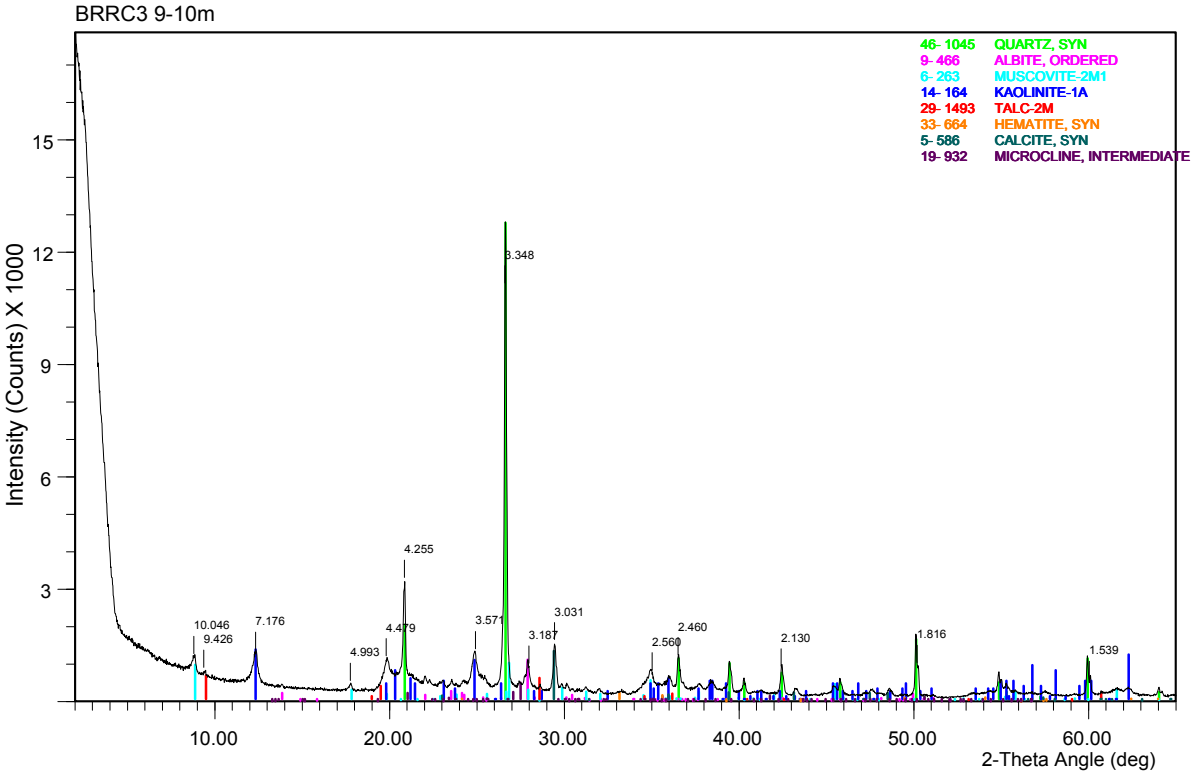
File Name: c:\...\1-21-22.xpt



File Name: c:\...\1-26-27.xpt

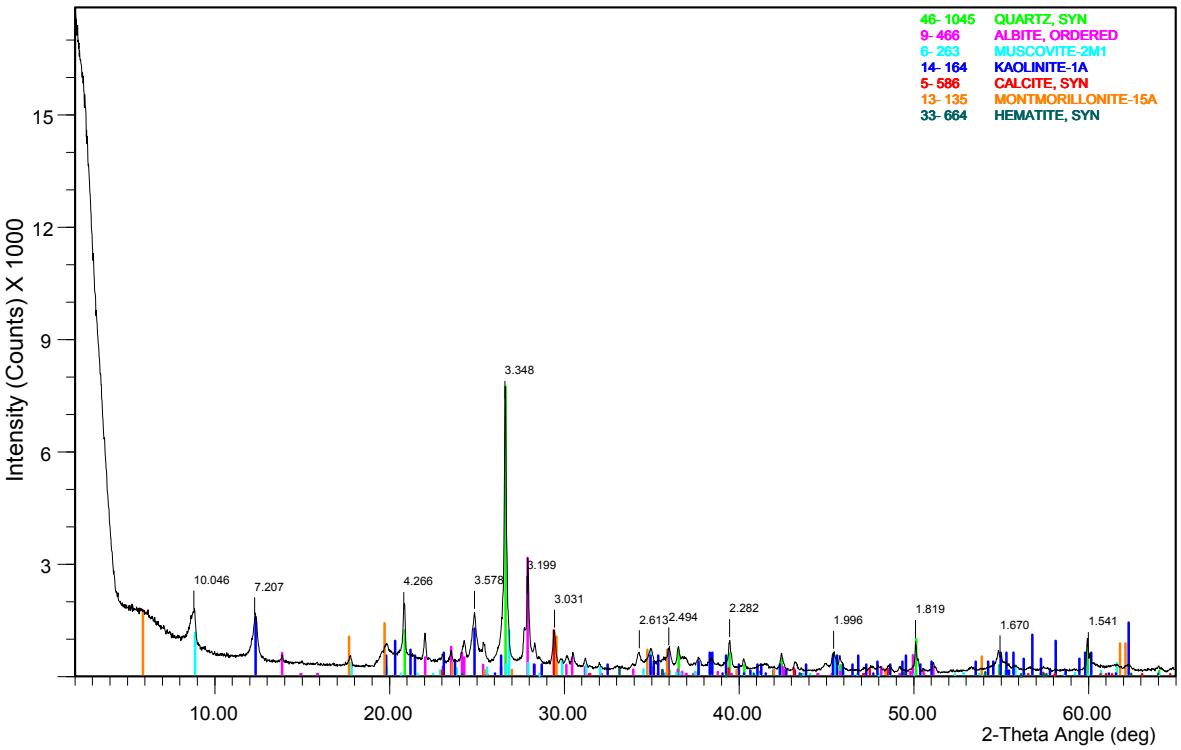


File Name: c:\...\1-31-32.xpt



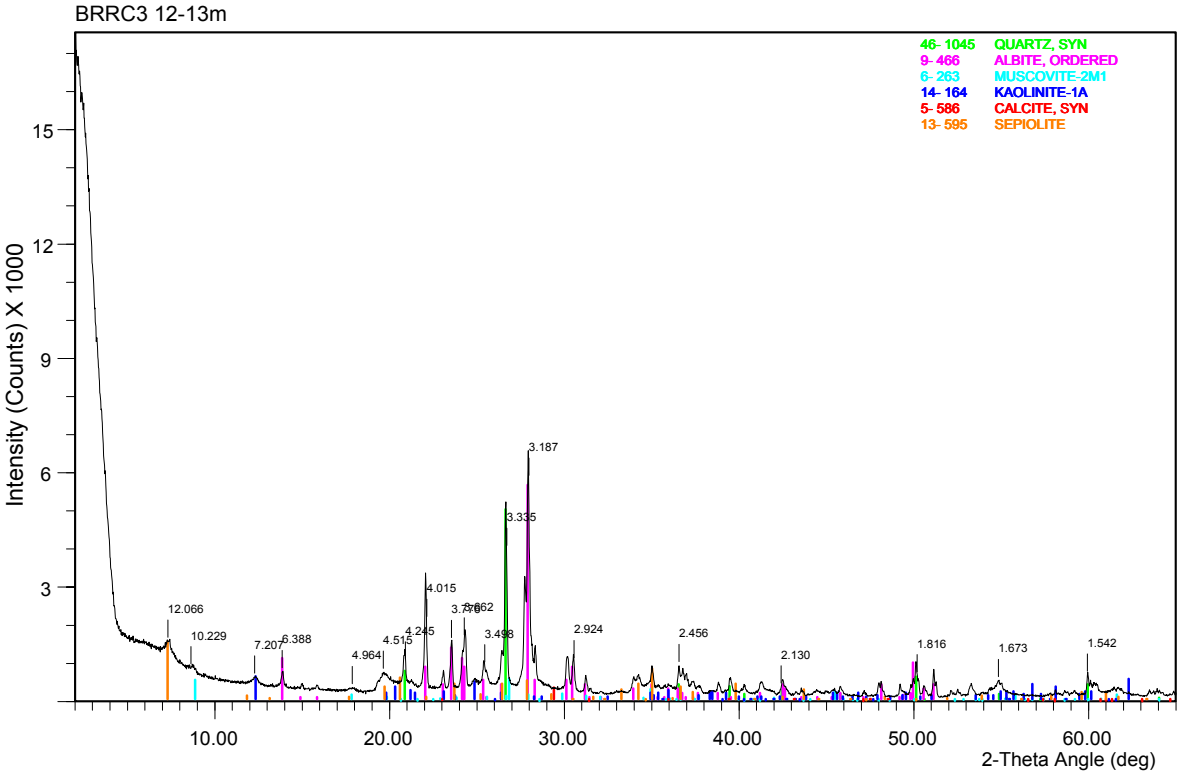
File Name: c:\...\xrd-xrf\3-9-10.xpt

BRRC3 11-12m

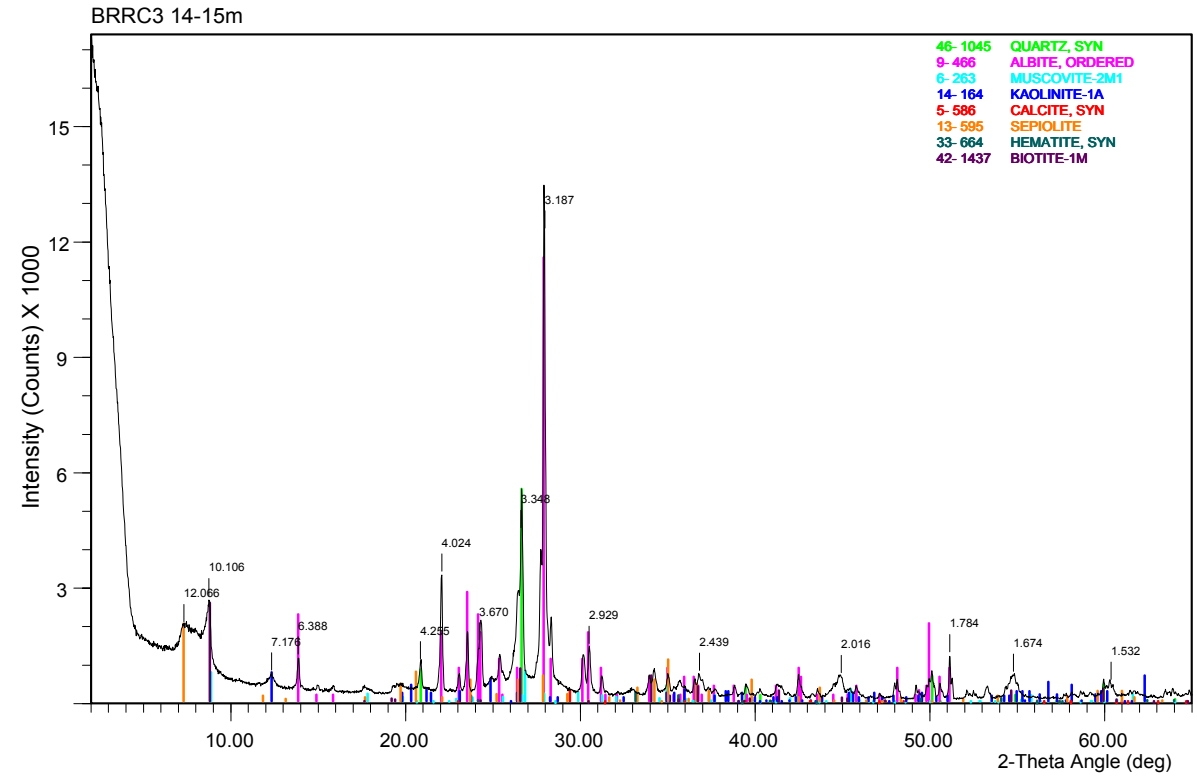


File Name: c:\...\3-11-12.xpt

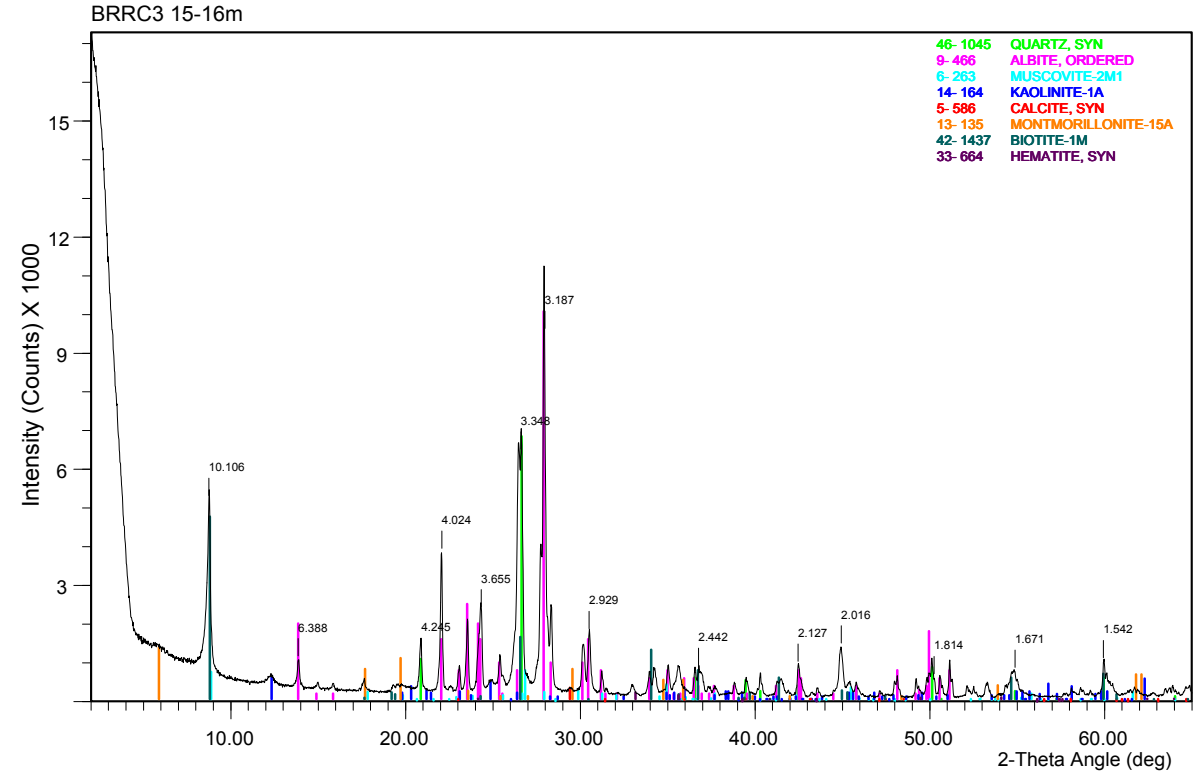
BRRC3 12-13m



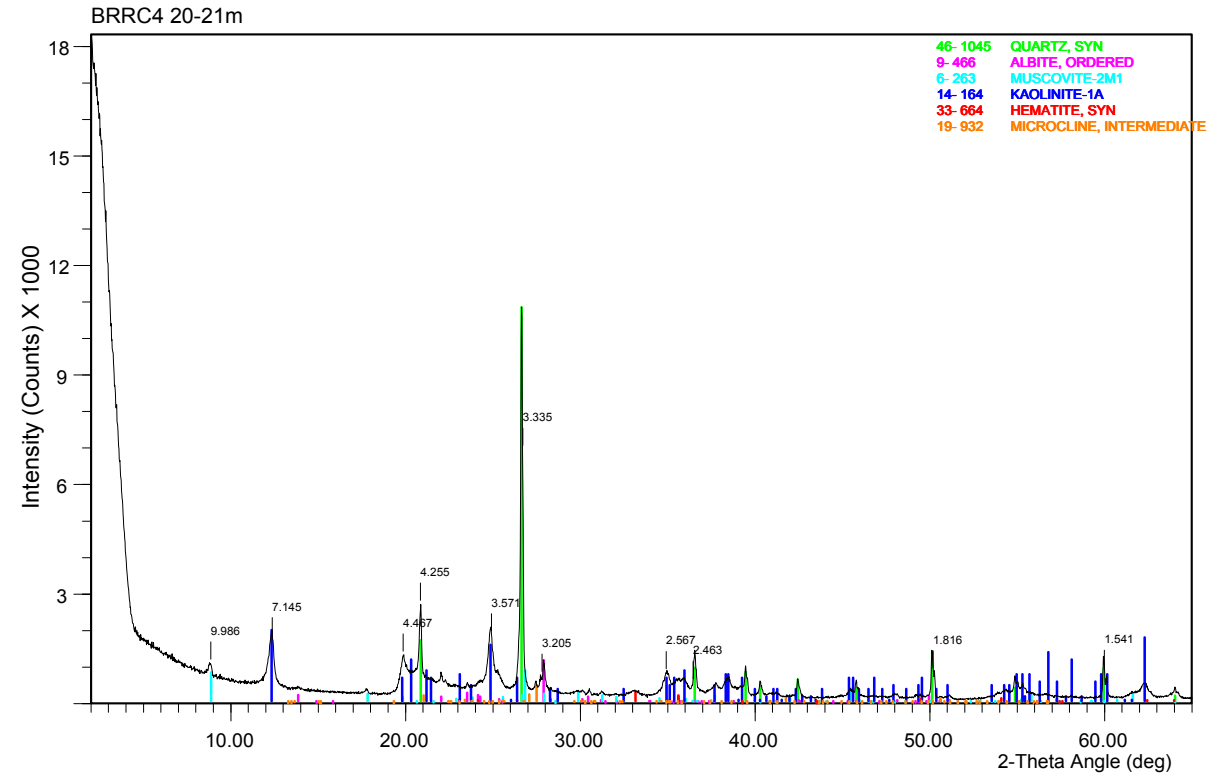
File Name: c:\...\3-12-13.xpt



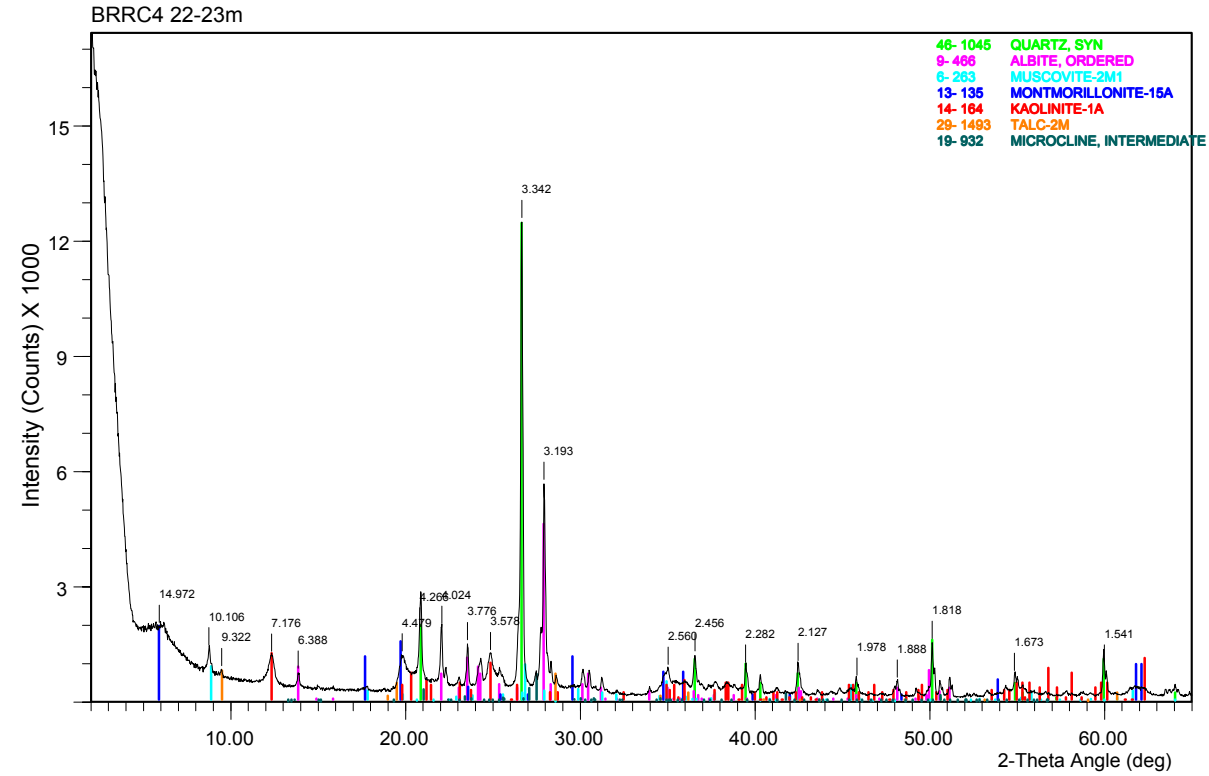
File Name: c:\...\3-14-15.xpt



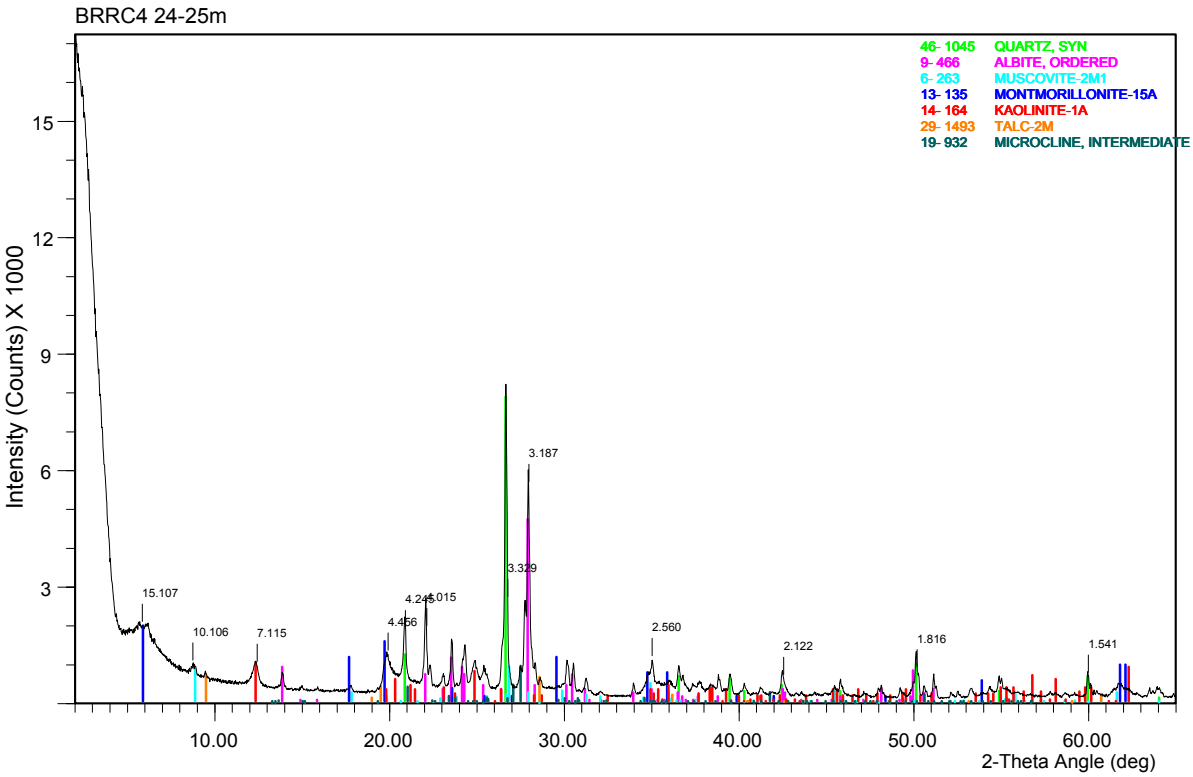
File Name: c:\...\3-15-16.xpt



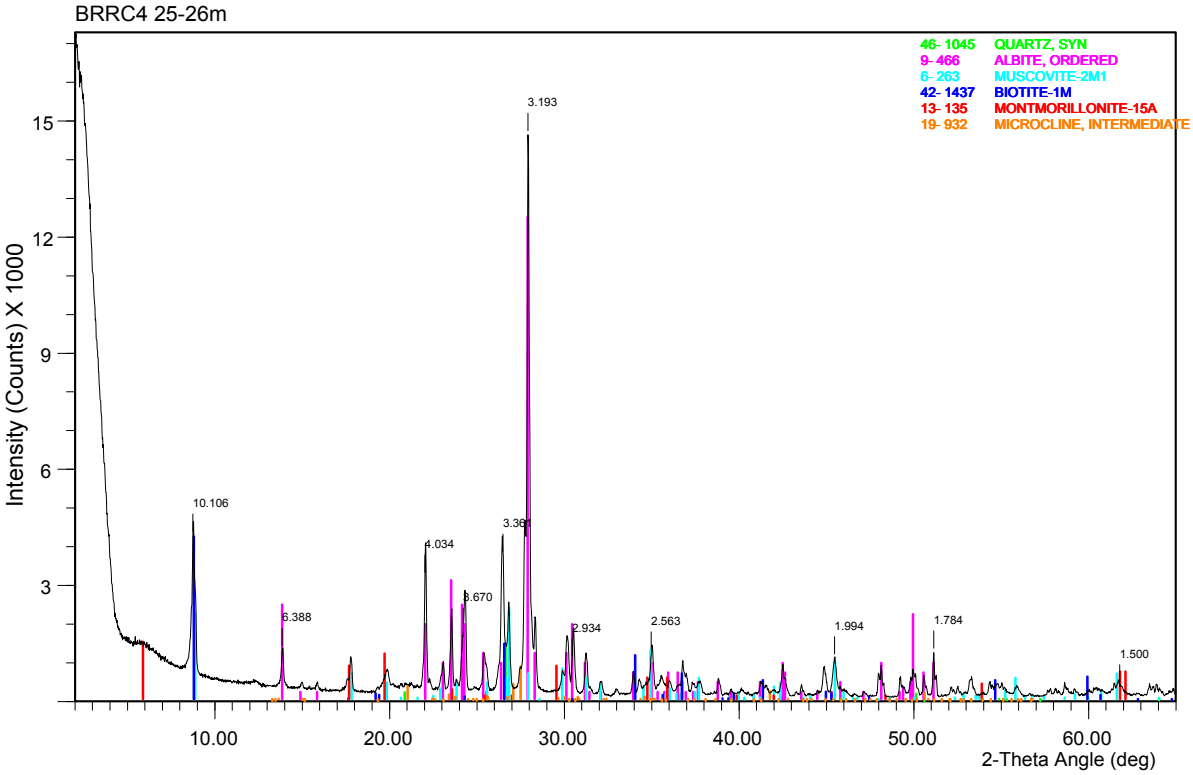
File Name: c:\...\4-20-21.xpt



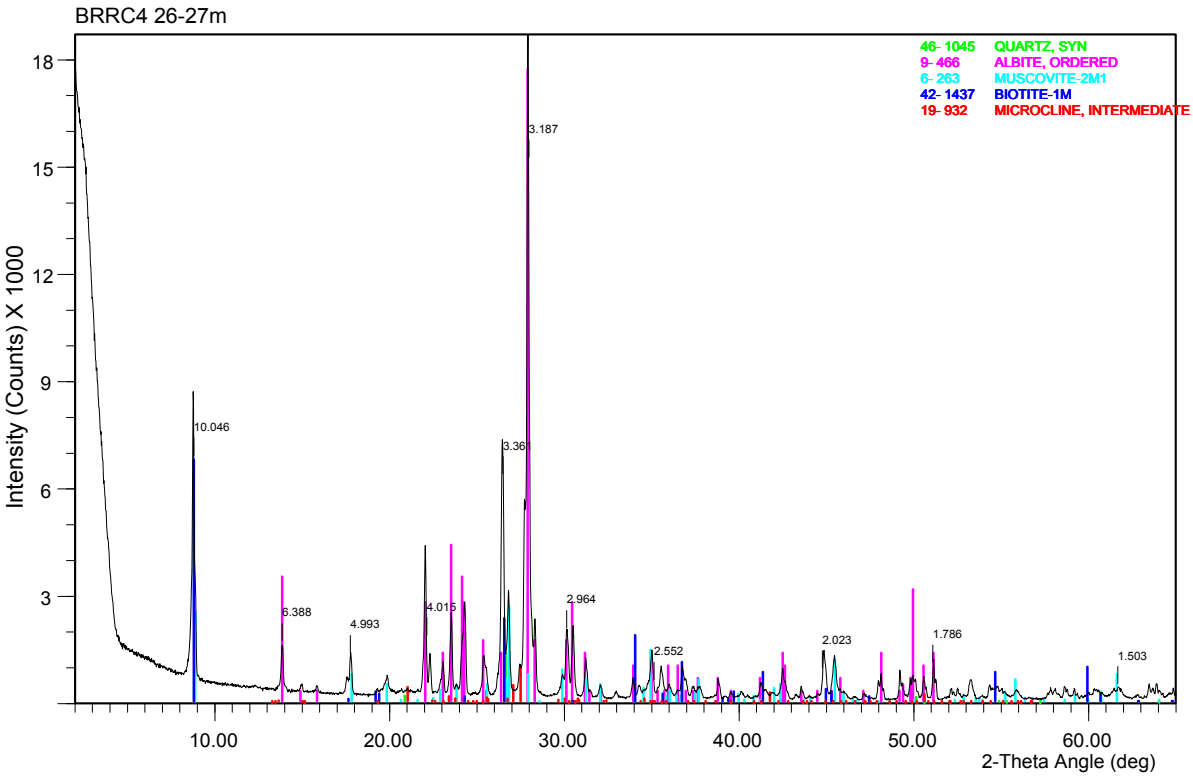
File Name: c:\...\4-22-23.xpt



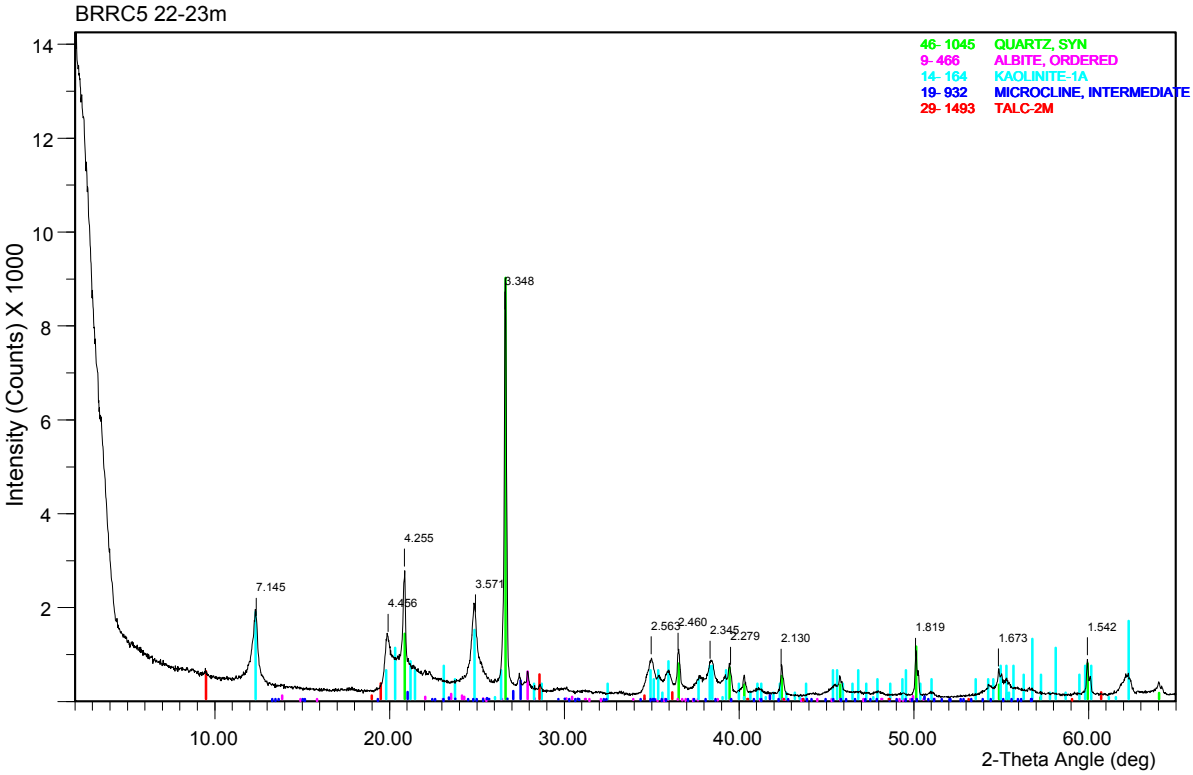
File Name: c:\...\4-24-25.xpt



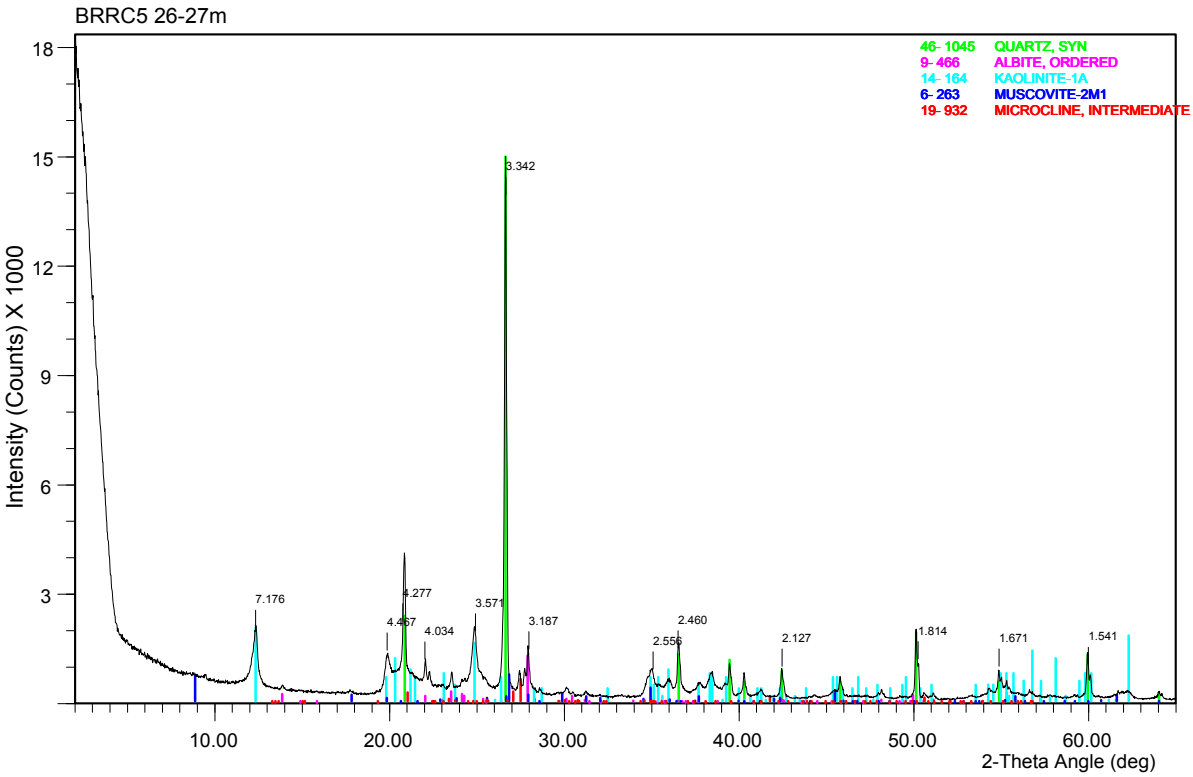
File Name: c:\...\4-25-26.xpt



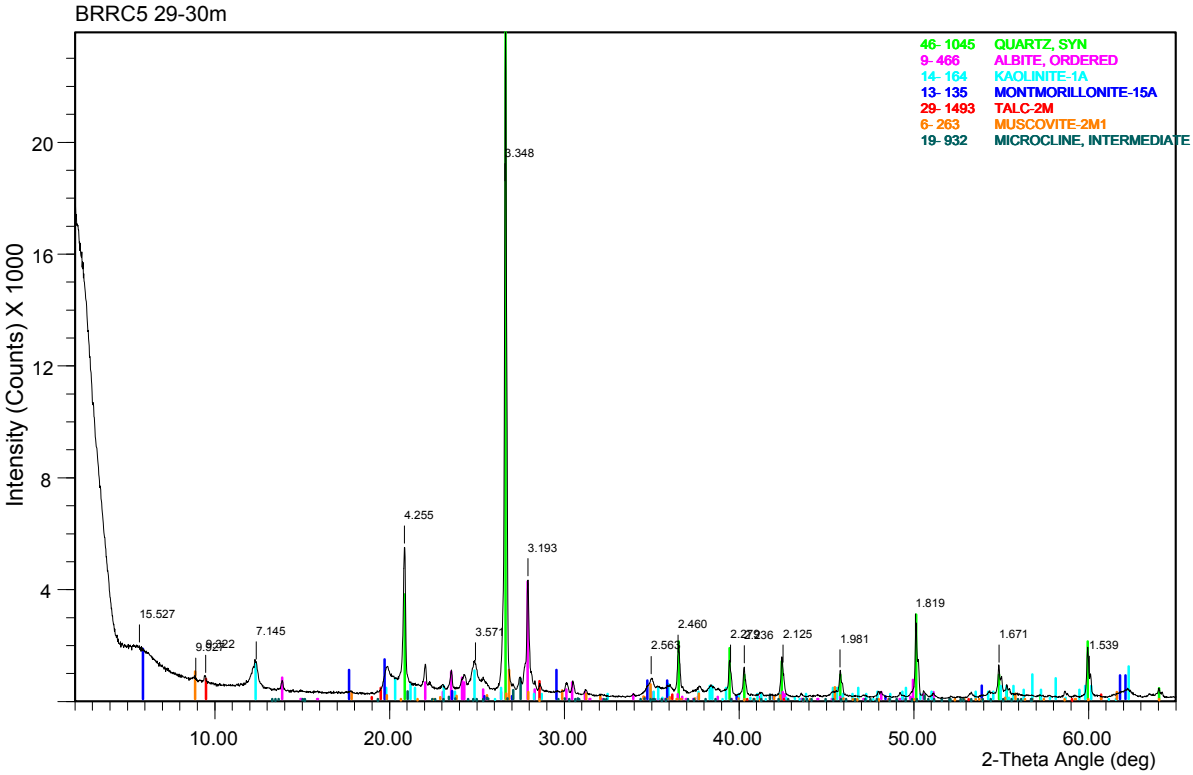
File Name: c:\...\4-26-27.xpt



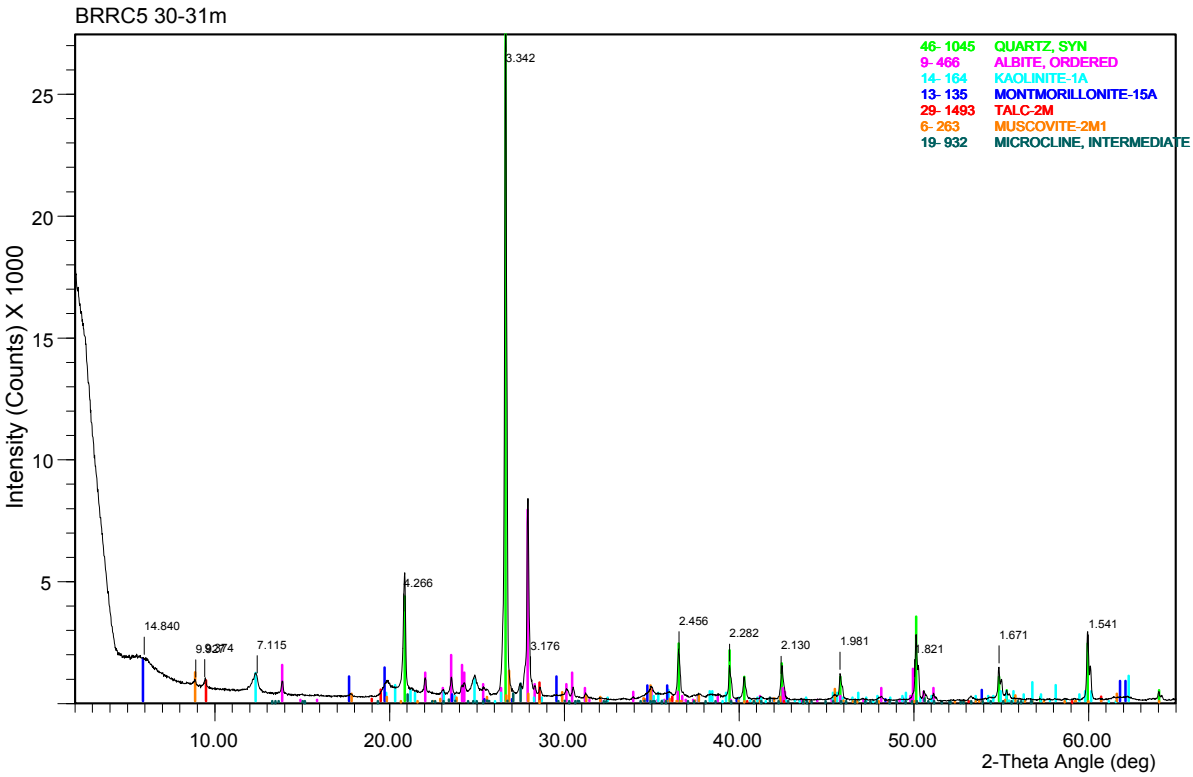
File Name: c:\...\5-22-23.xpt



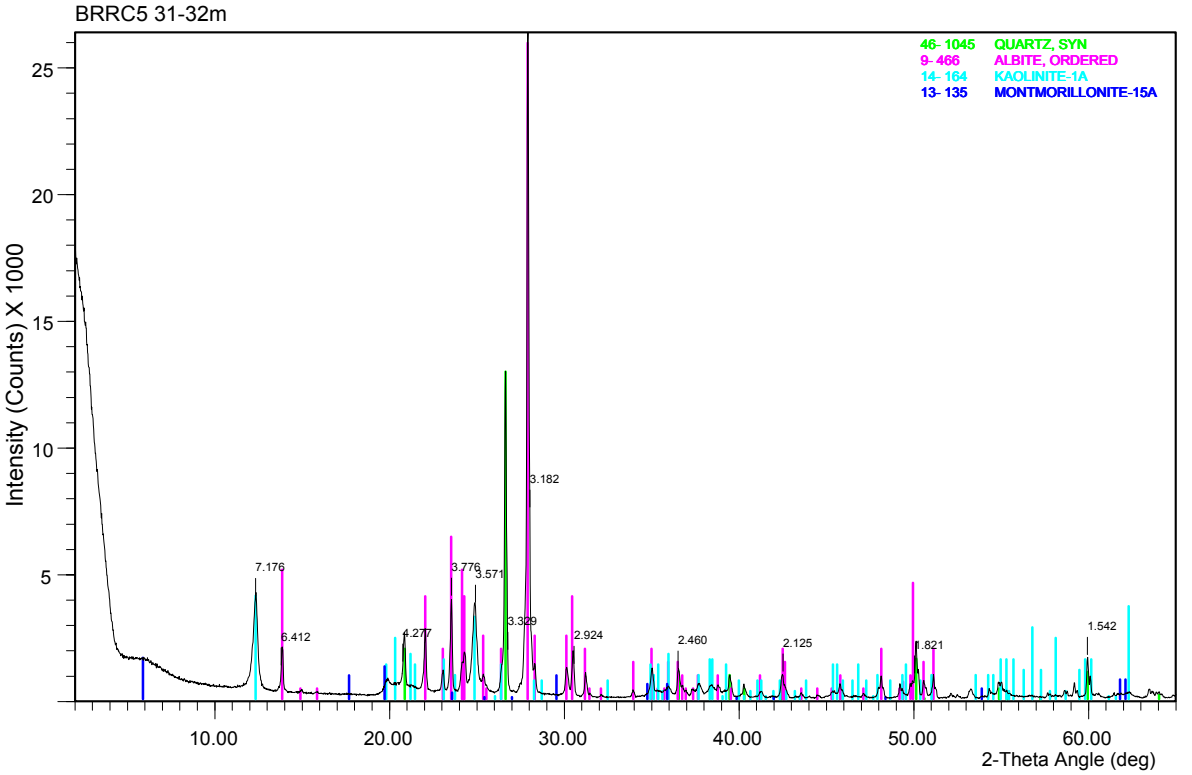
File Name: c:\...\5-26-27.xpt



File Name: c:\...\5-29-30.xpt

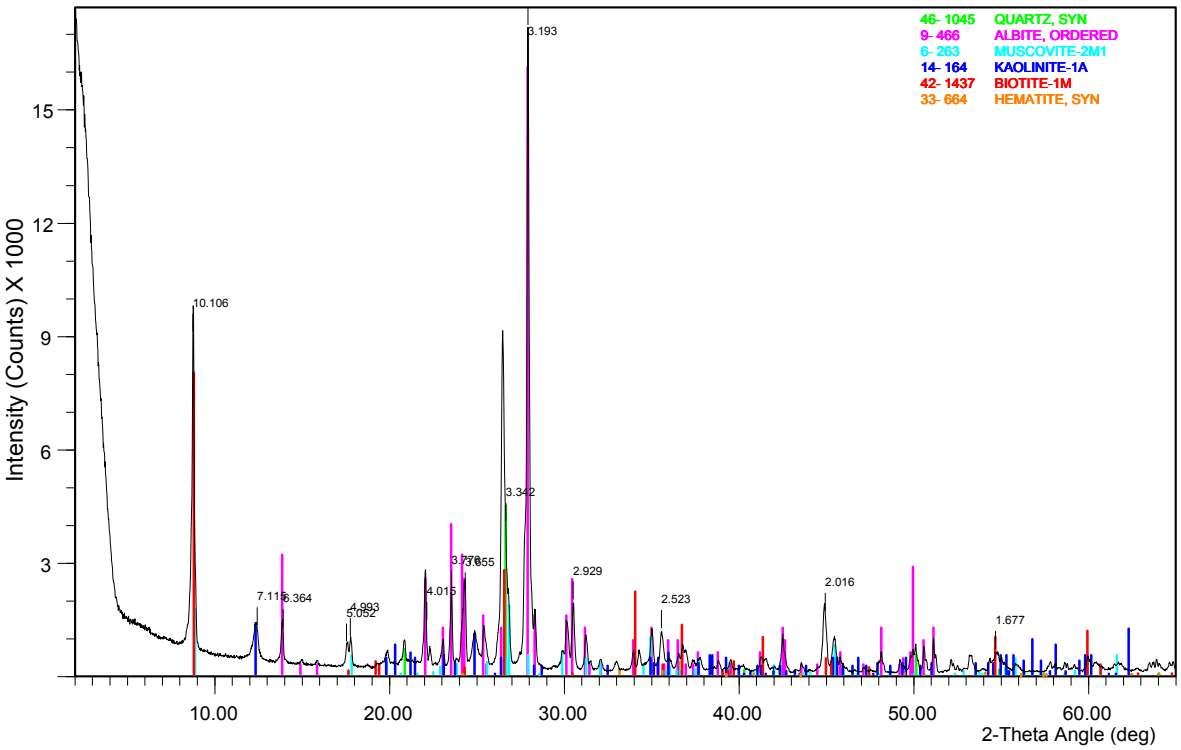


File Name: c:\...\5-30-31.xpt



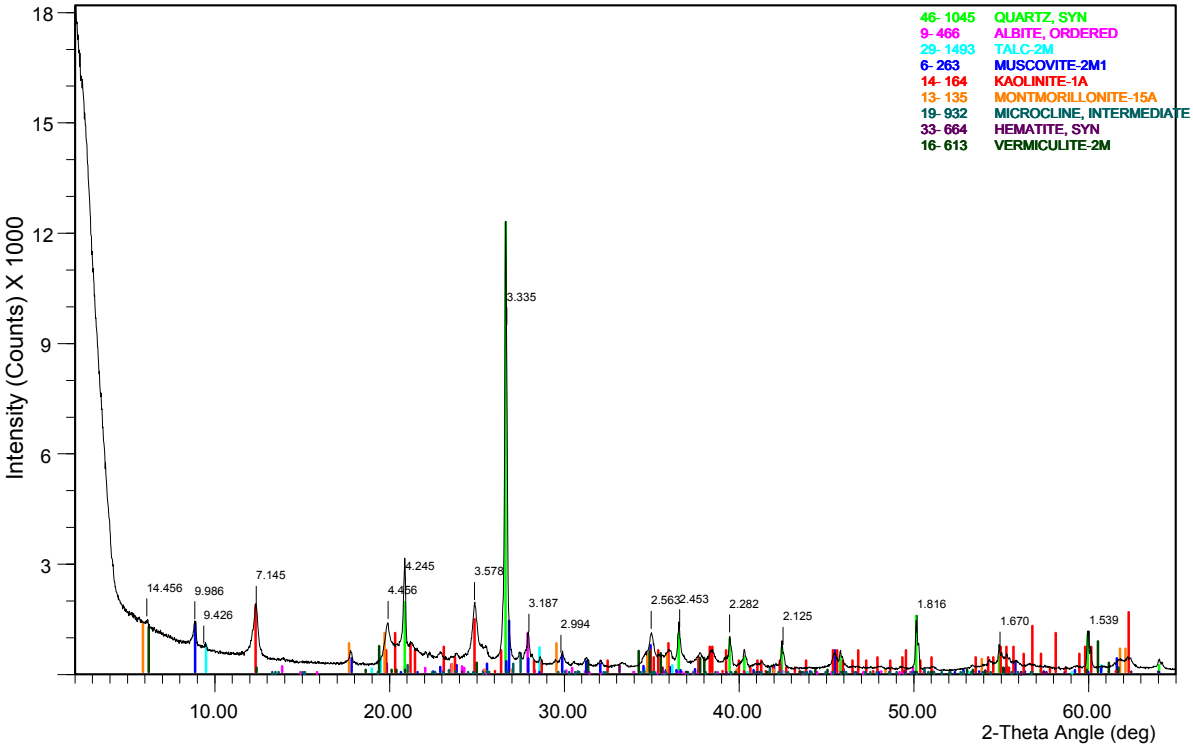
File Name: c:\...\5-31-32.xpt

BRRC5 42-43m

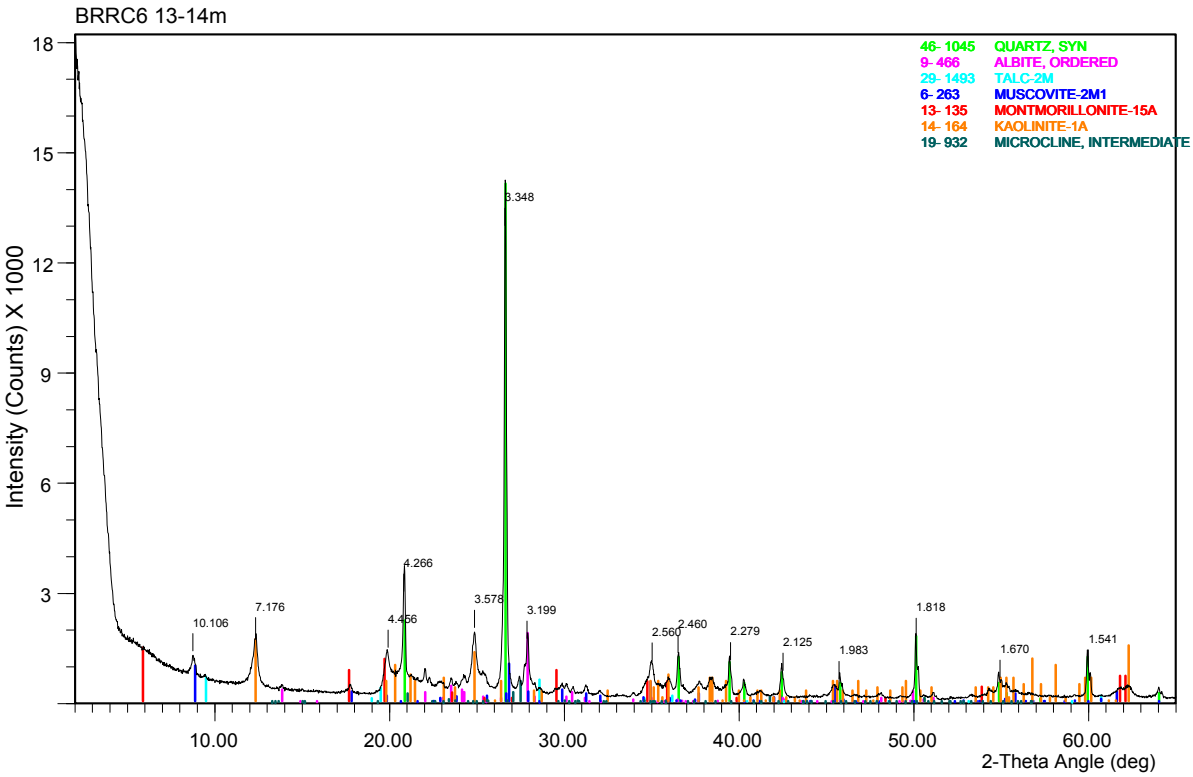


File Name: c:\...\5-42-43.xpt

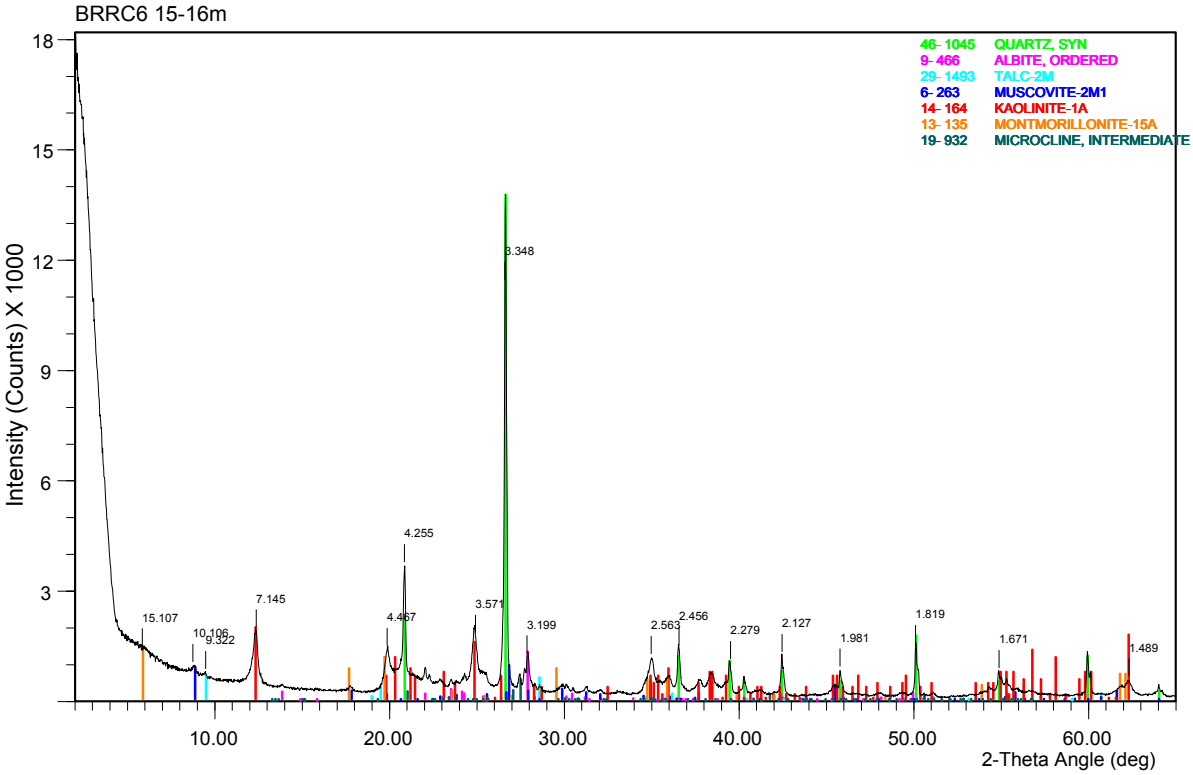
BRRC6 11-12m



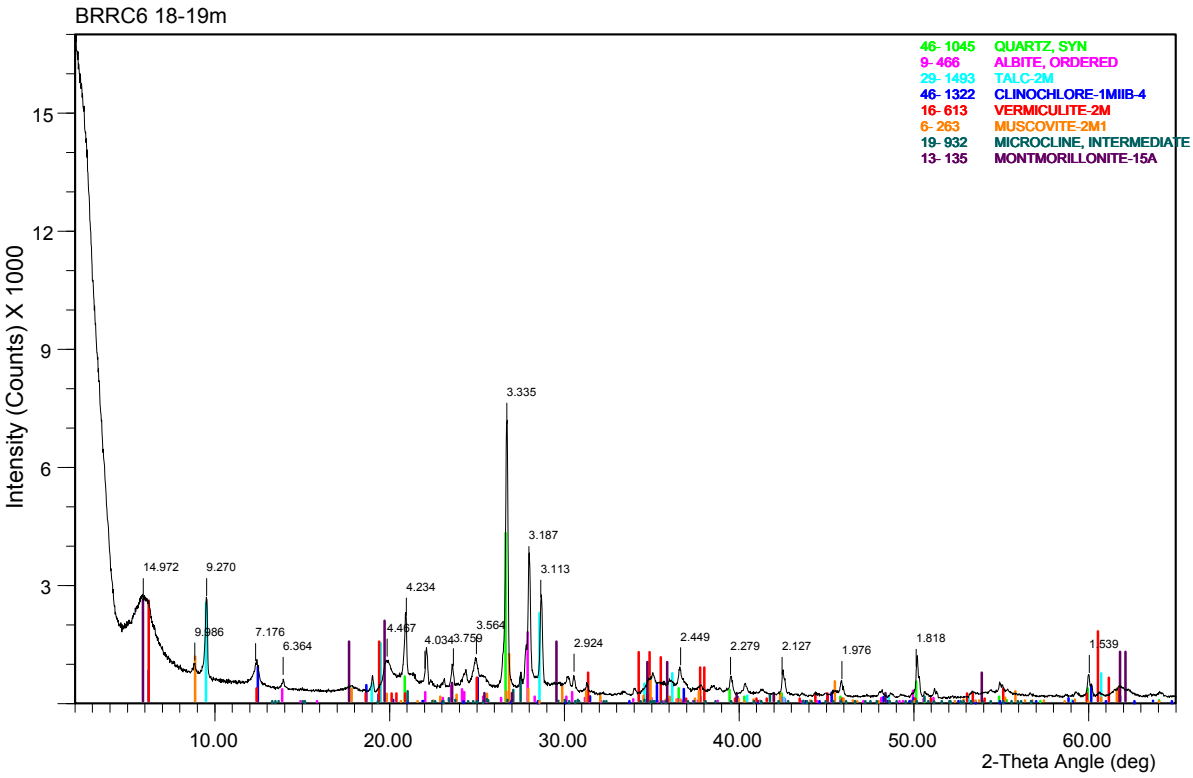
File Name: c:\...\6-11-12.xpt



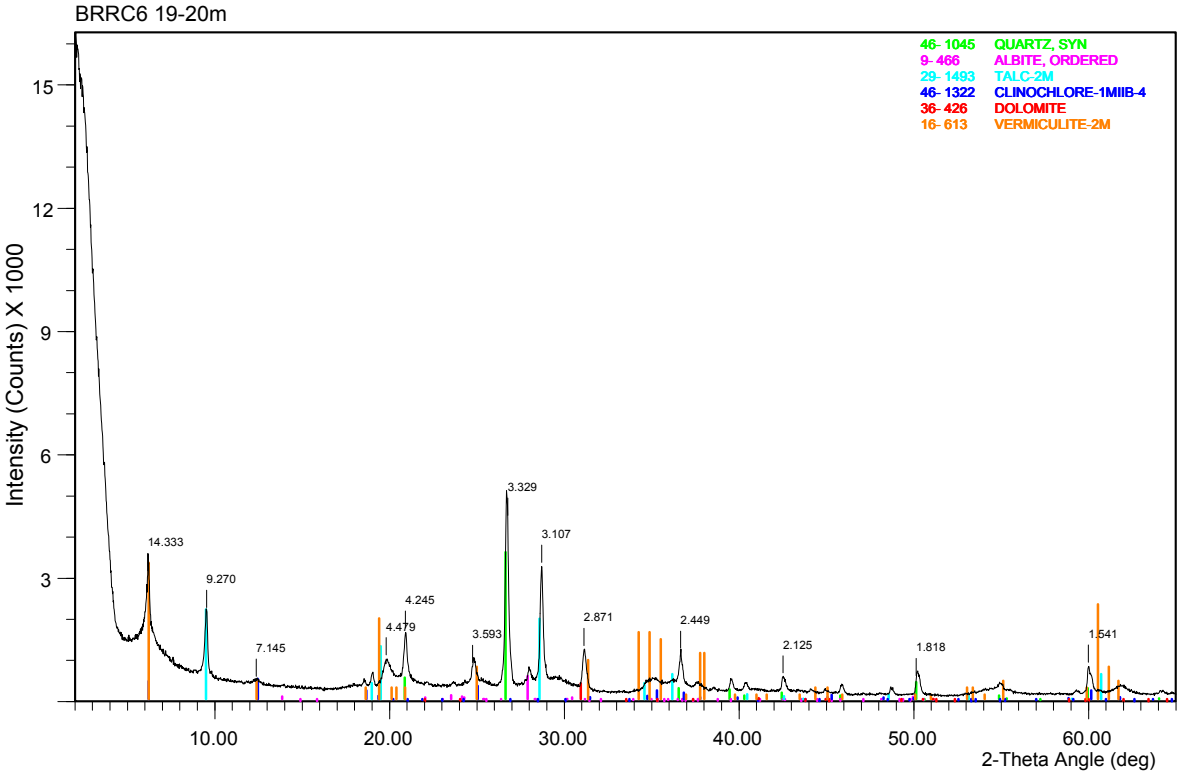
File Name: c:\...\6-13-14.xpt



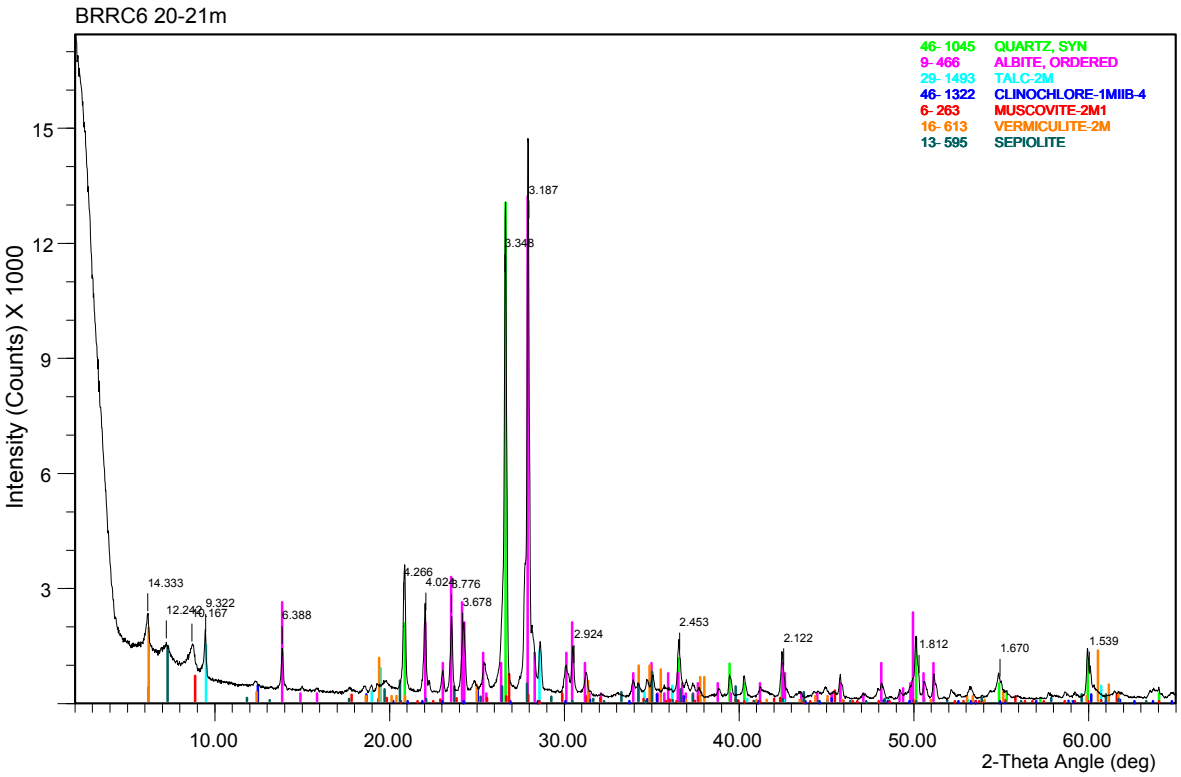
File Name: c:\...\6-15-16.xpt



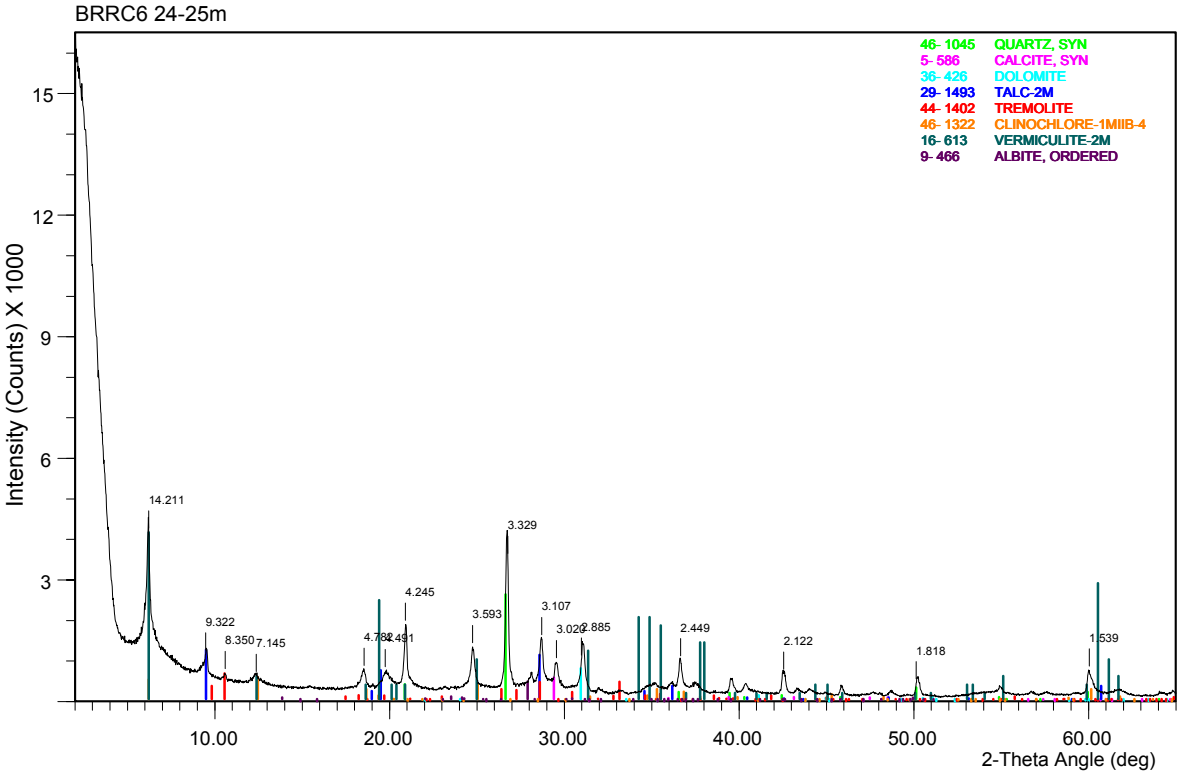
File Name: c:\...\6-18-19.xpt



File Name: c:\...\6-19-20.xpt

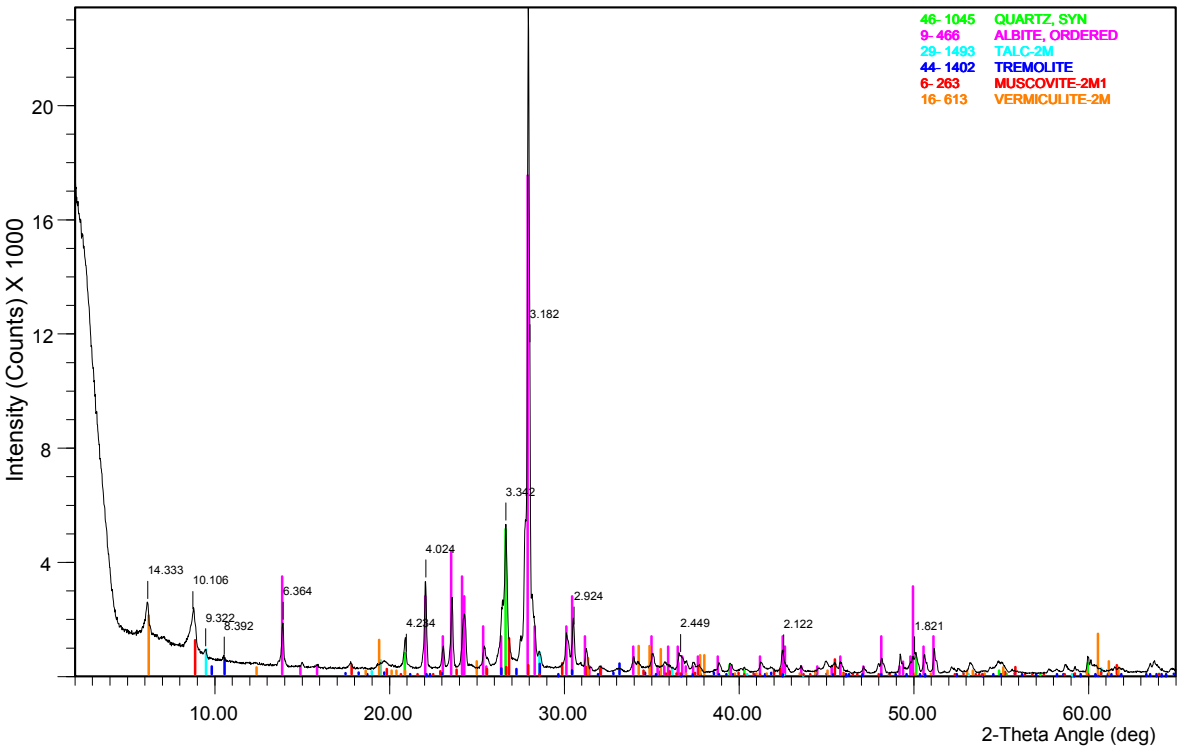


File Name: c:\...\6-20-21.xpt



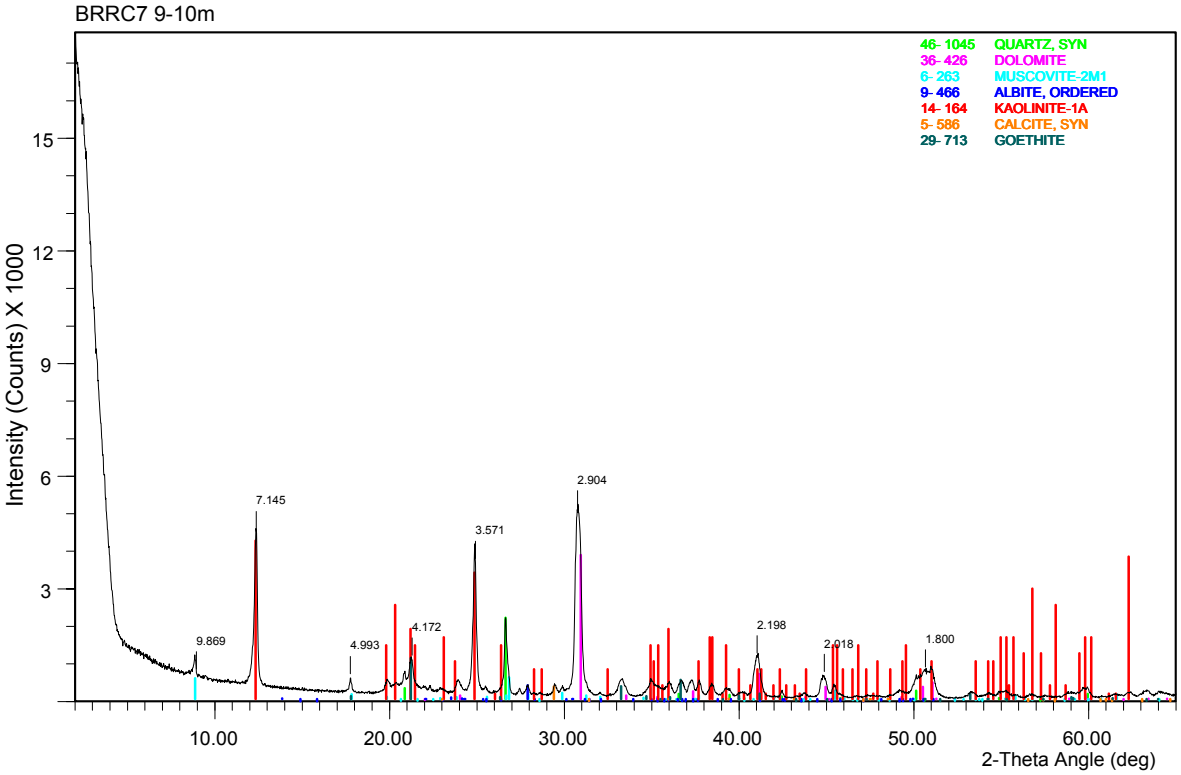
File Name: c:\...\6-24-25.xpt

BRRC6 26-27m

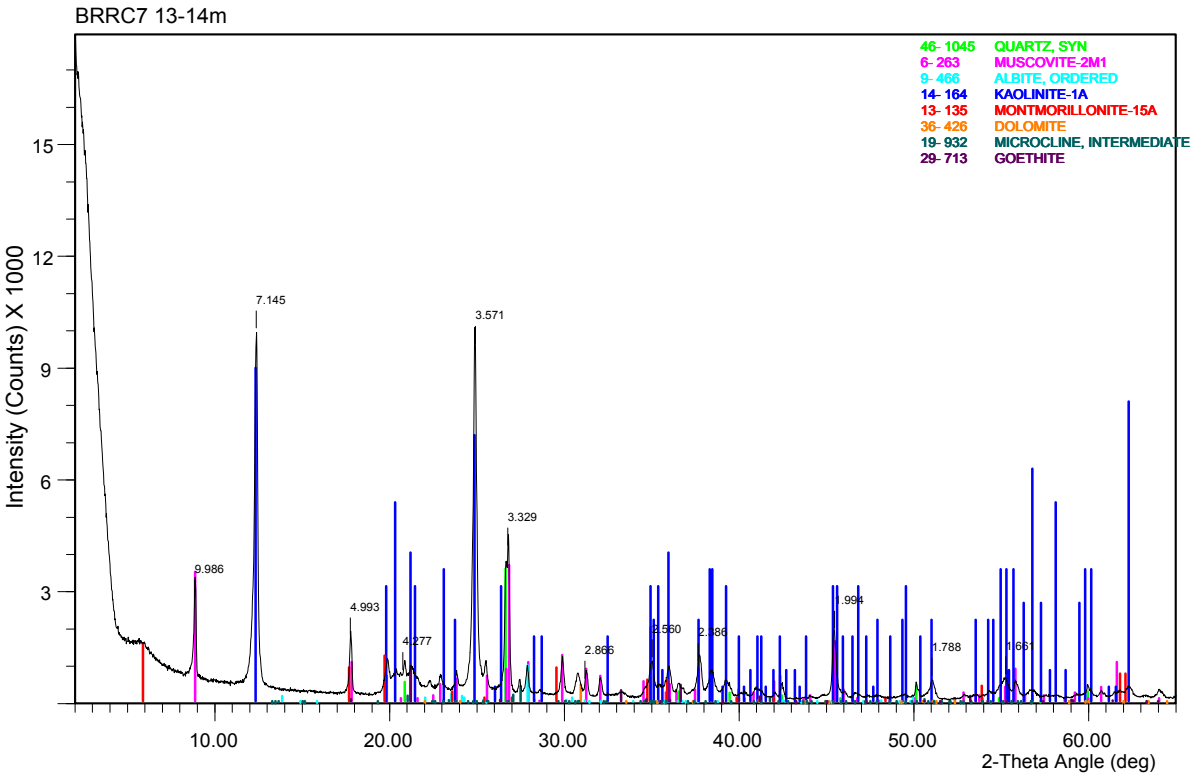


File Name: c:\...\6-26-27.xpt

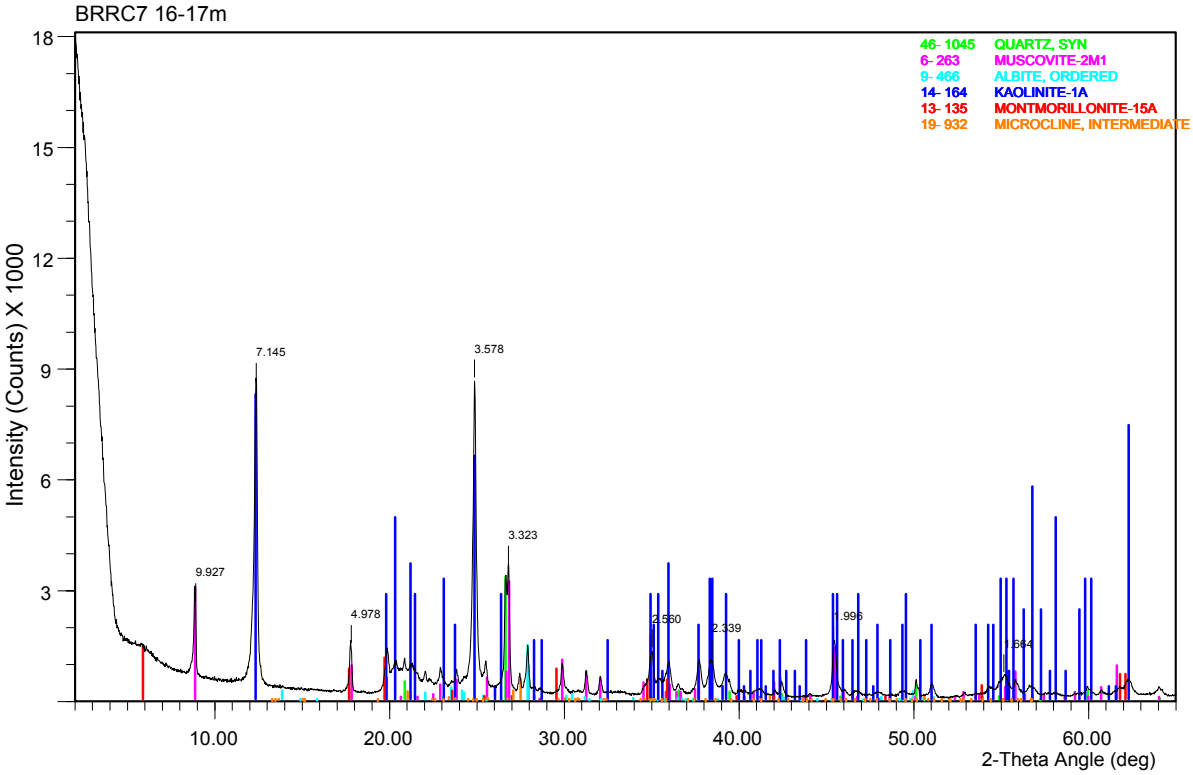
BRRC7 9-10m



File Name: c:\...\xrd-xrf\7-9-10.xpt

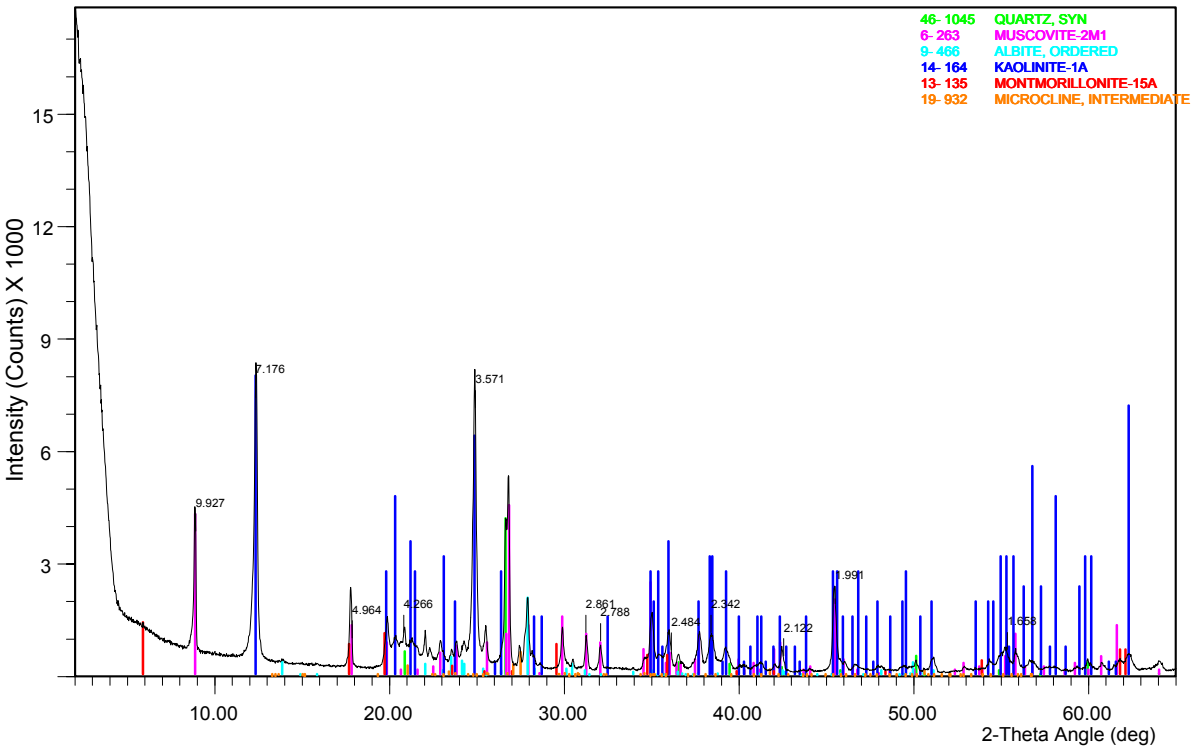


File Name: c:\...\7-13-14.xpt



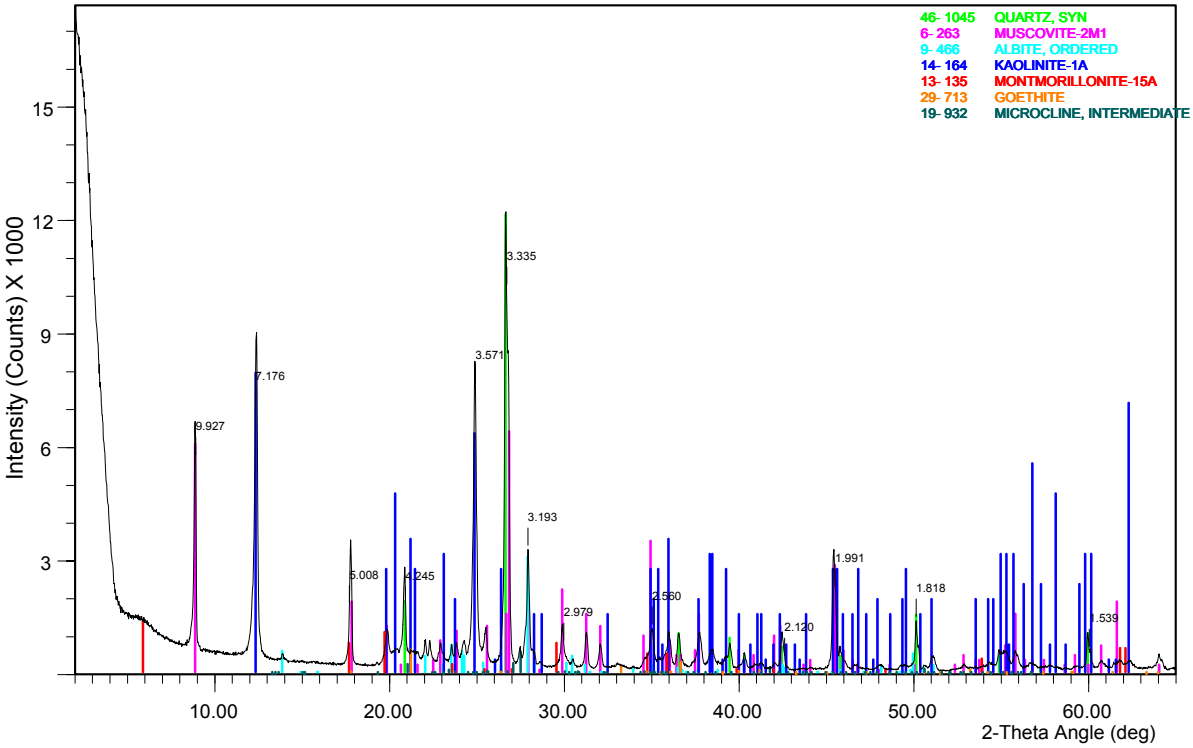
File Name: c:\...\7-16-17.xpt

BRRC7 17-18m

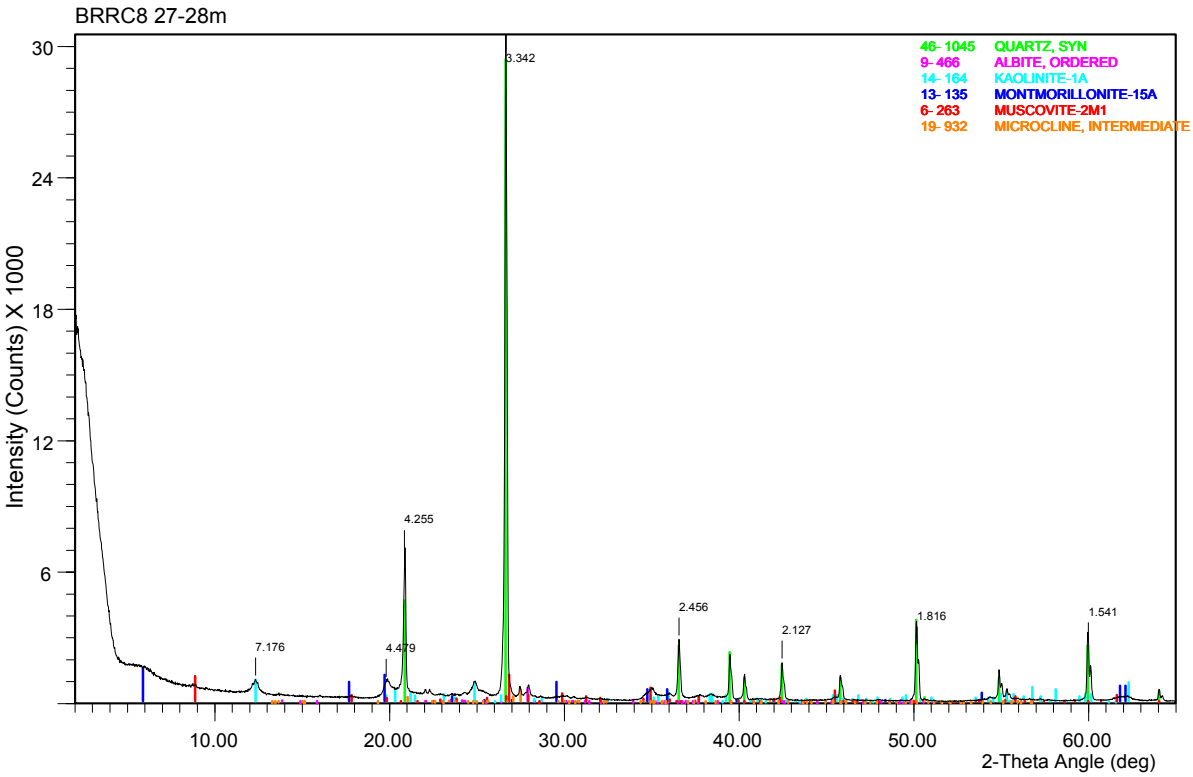


File Name: c:\...\7-17-18.xpt

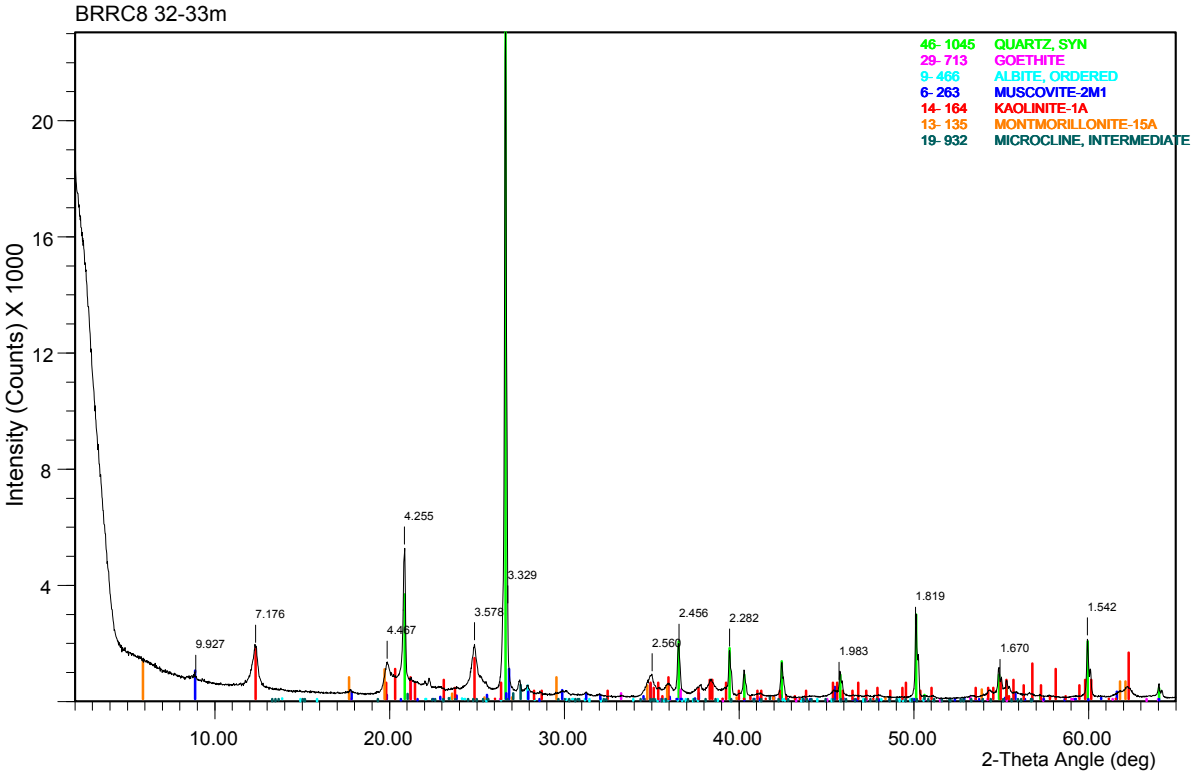
BRRC7 24-25m



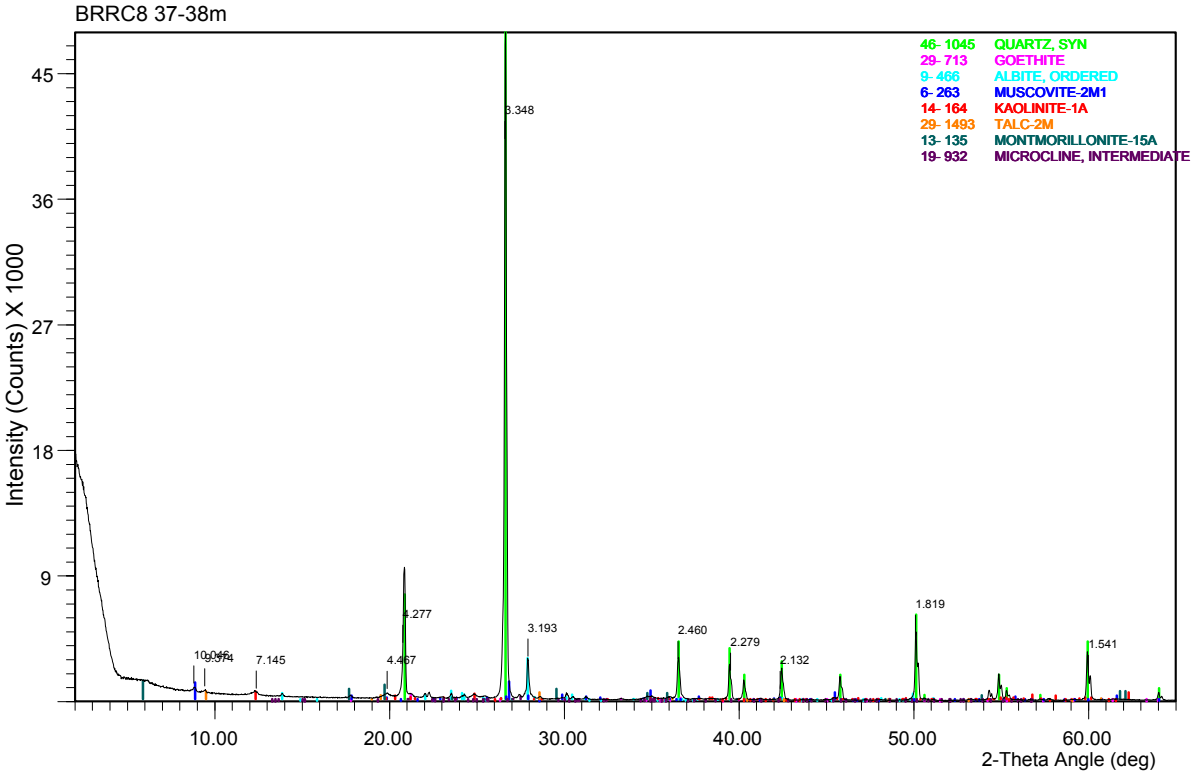
File Name: c:\...\7-24-25.xpt



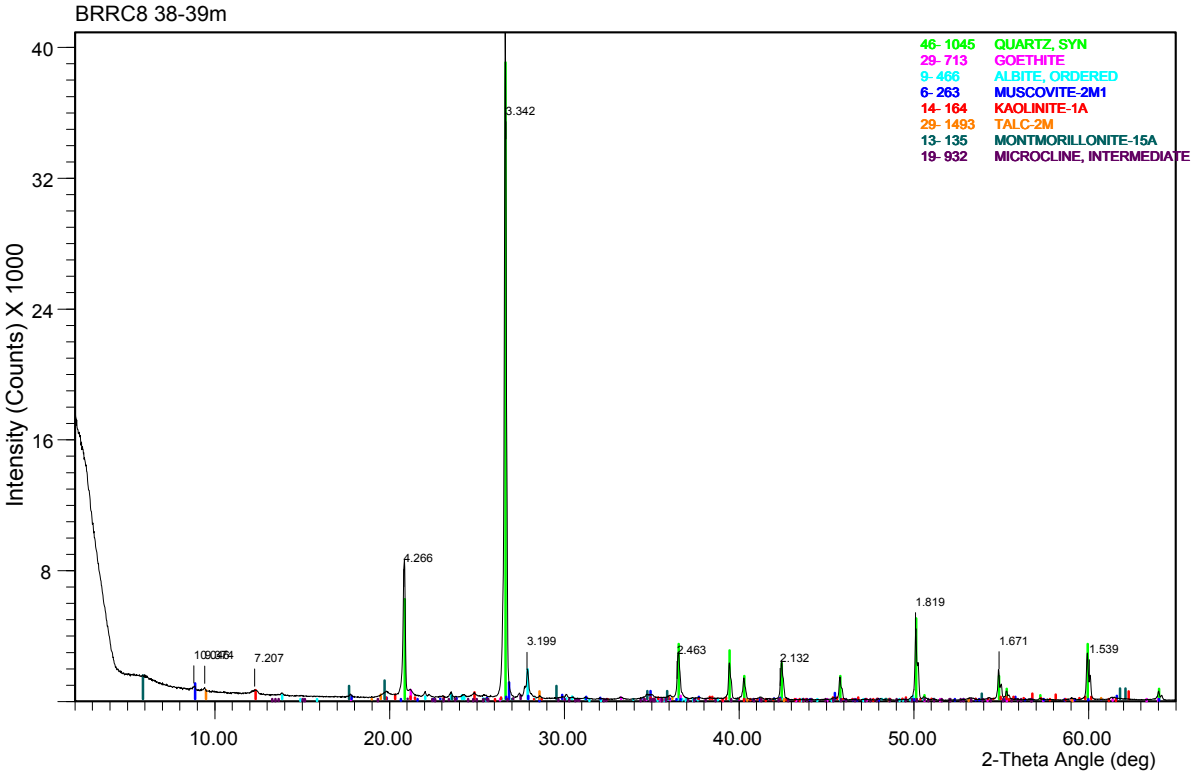
File Name: c:\...\8-27-28.xpt



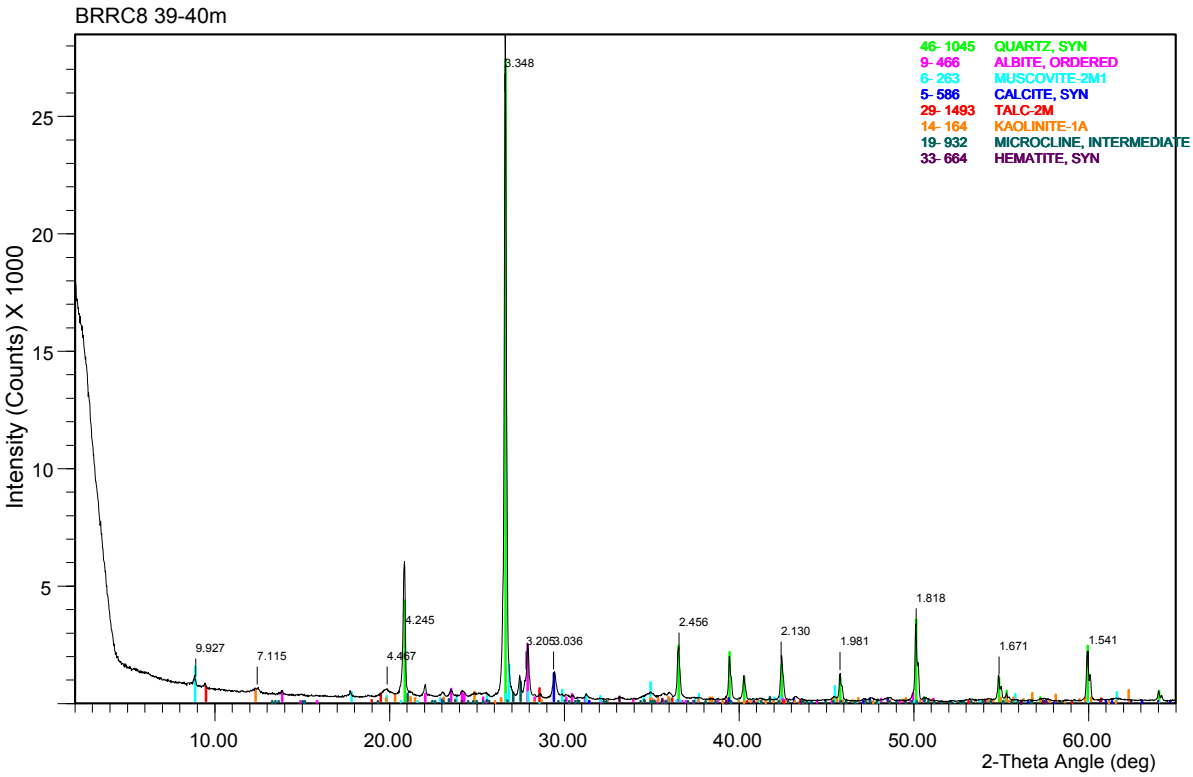
File Name: c:\...\8-32-33.xpt



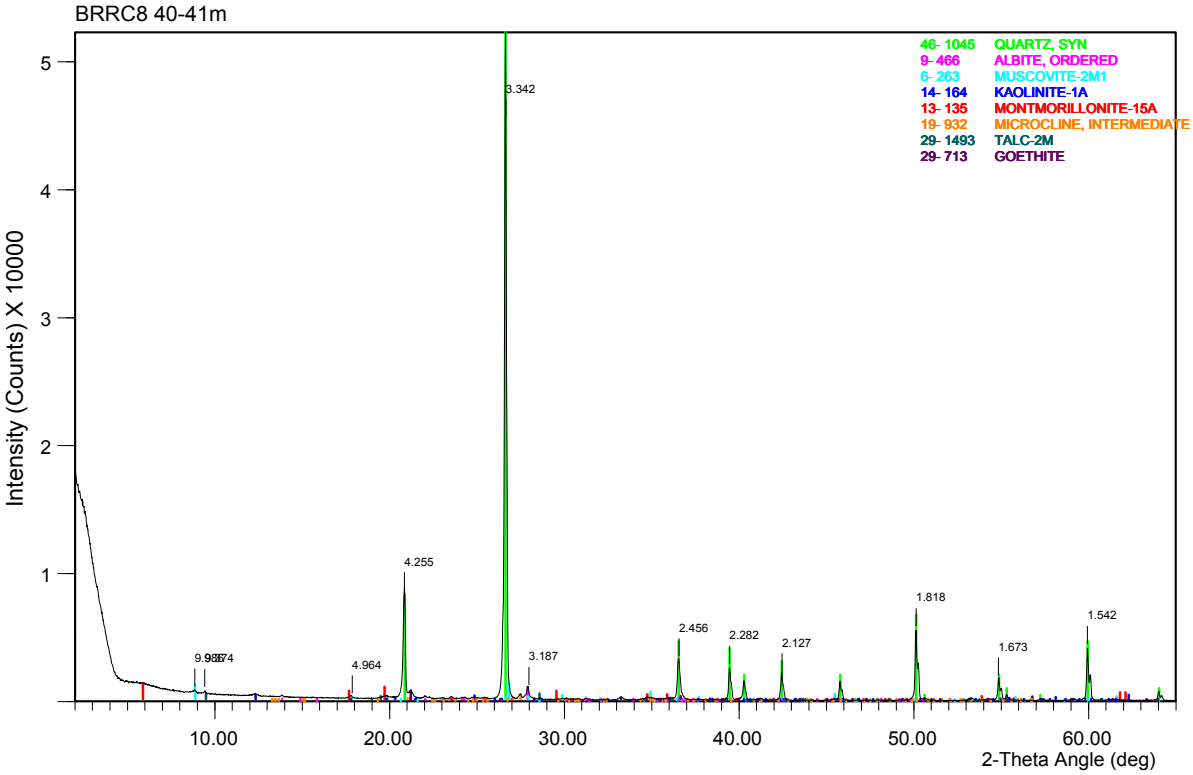
File Name: c:\...\8-37-38.xpt



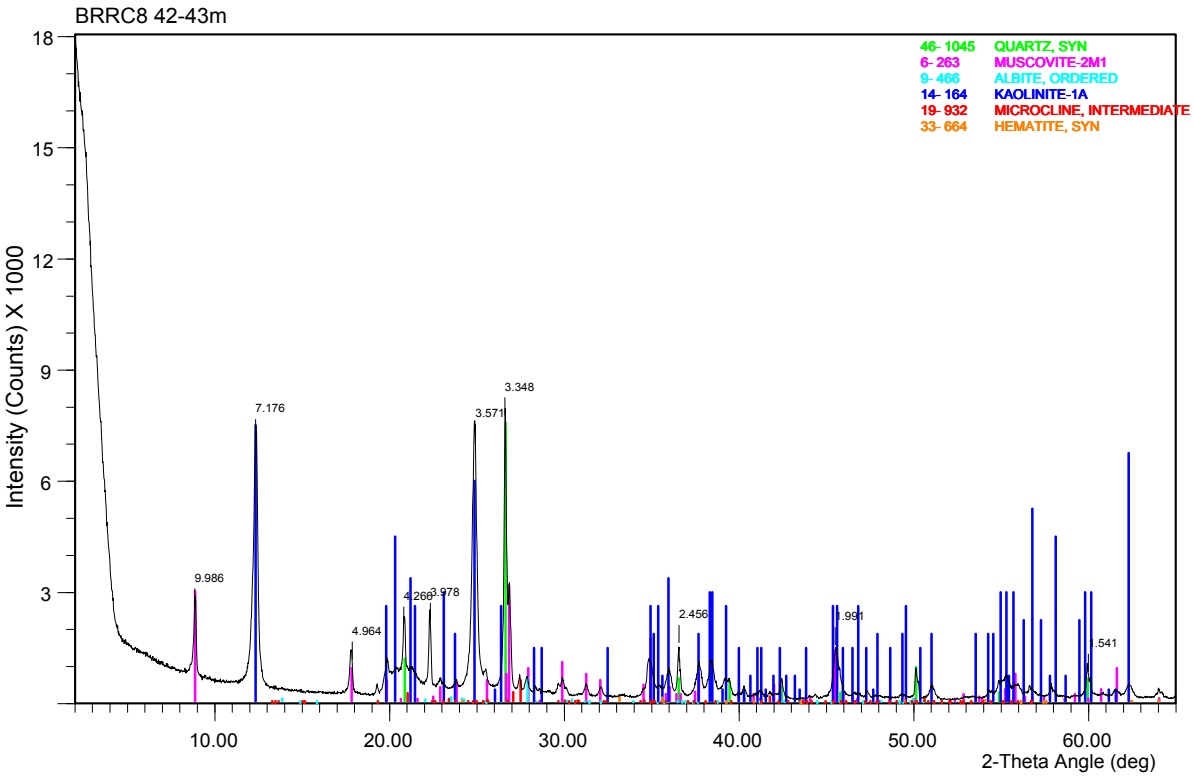
File Name: c:\...\8-38-39.xpt



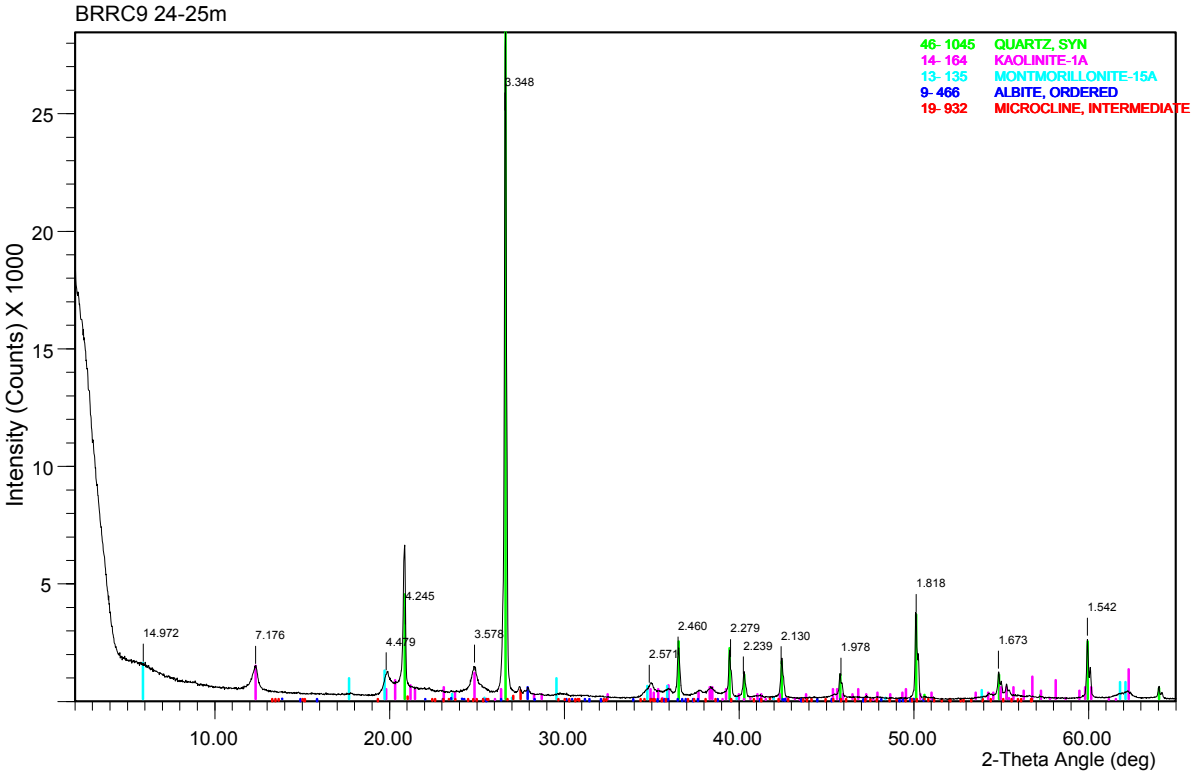
File Name: c:\...\8-39-40.xpt



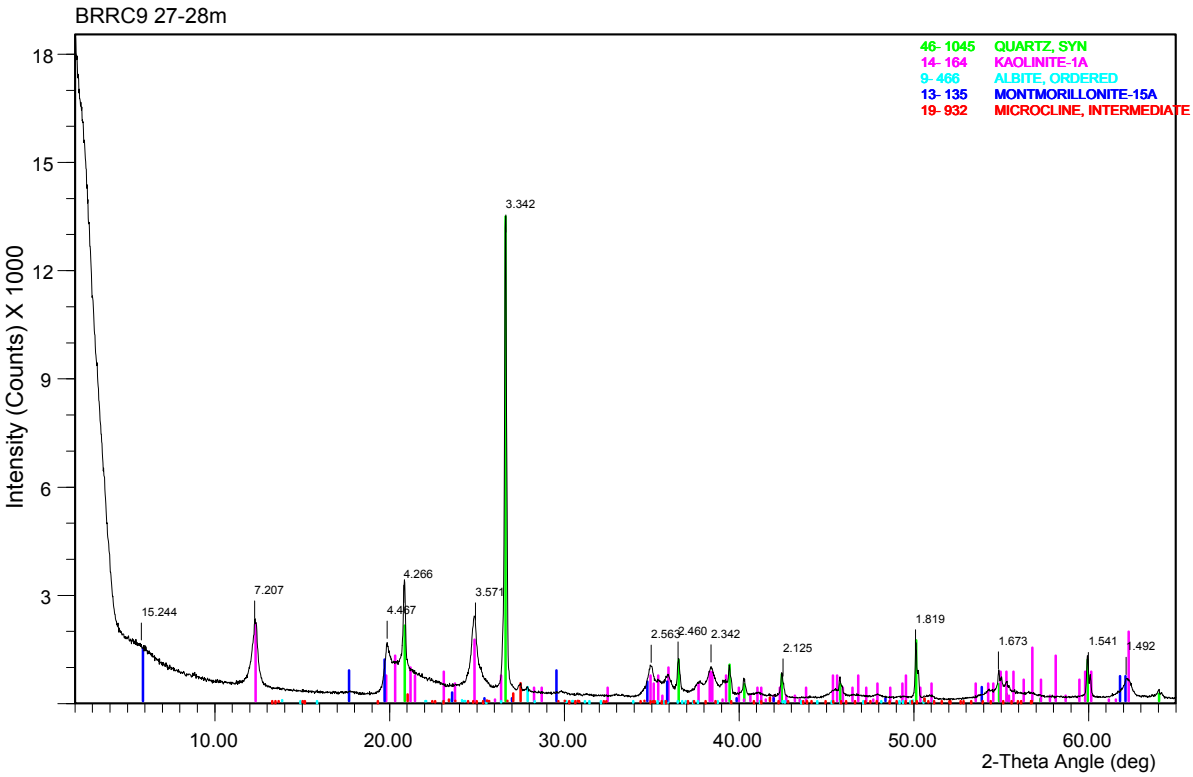
File Name: c:\...\8-40-41.xpt



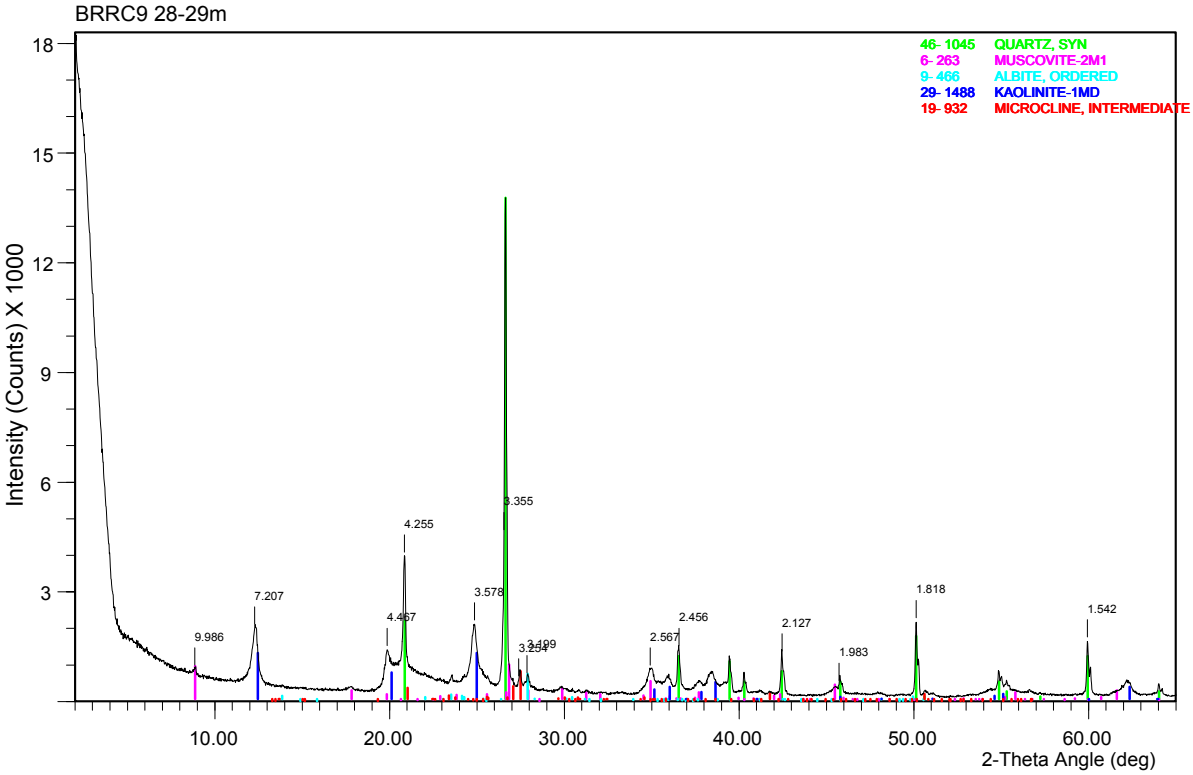
File Name: c:\...\8-42-43.xpt



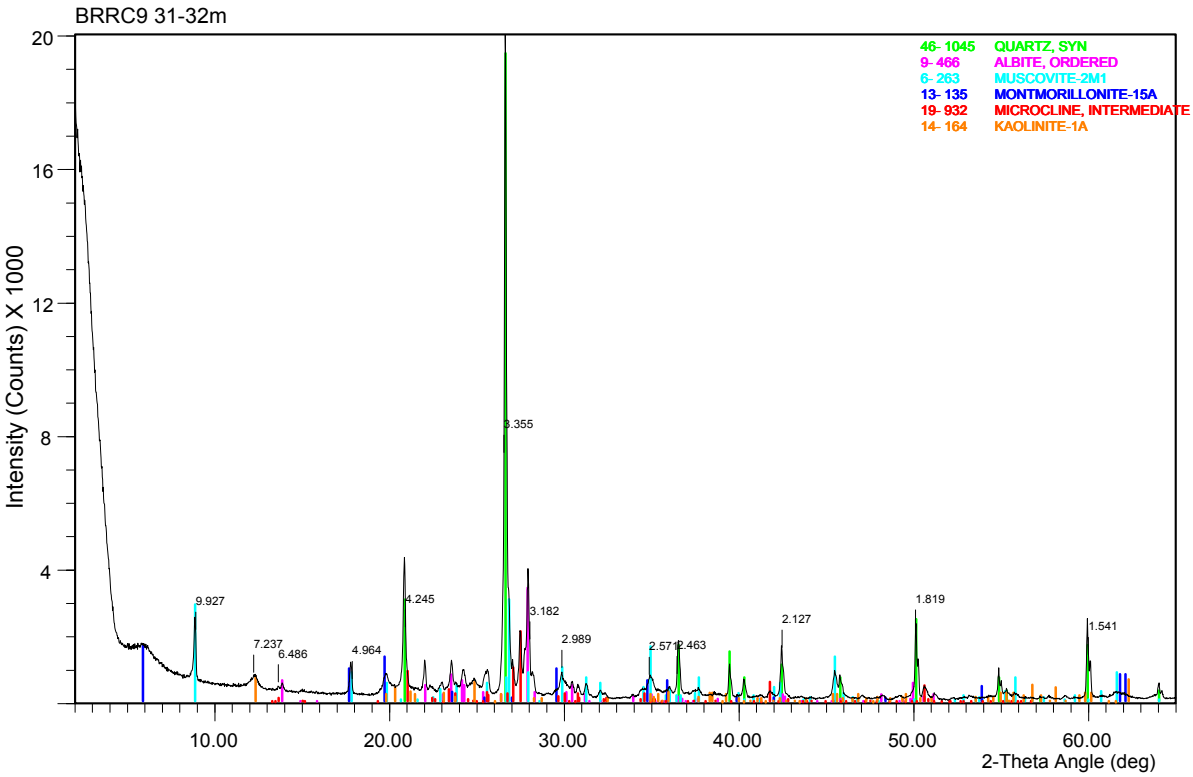
File Name: c:\...\9-24-25.xpt



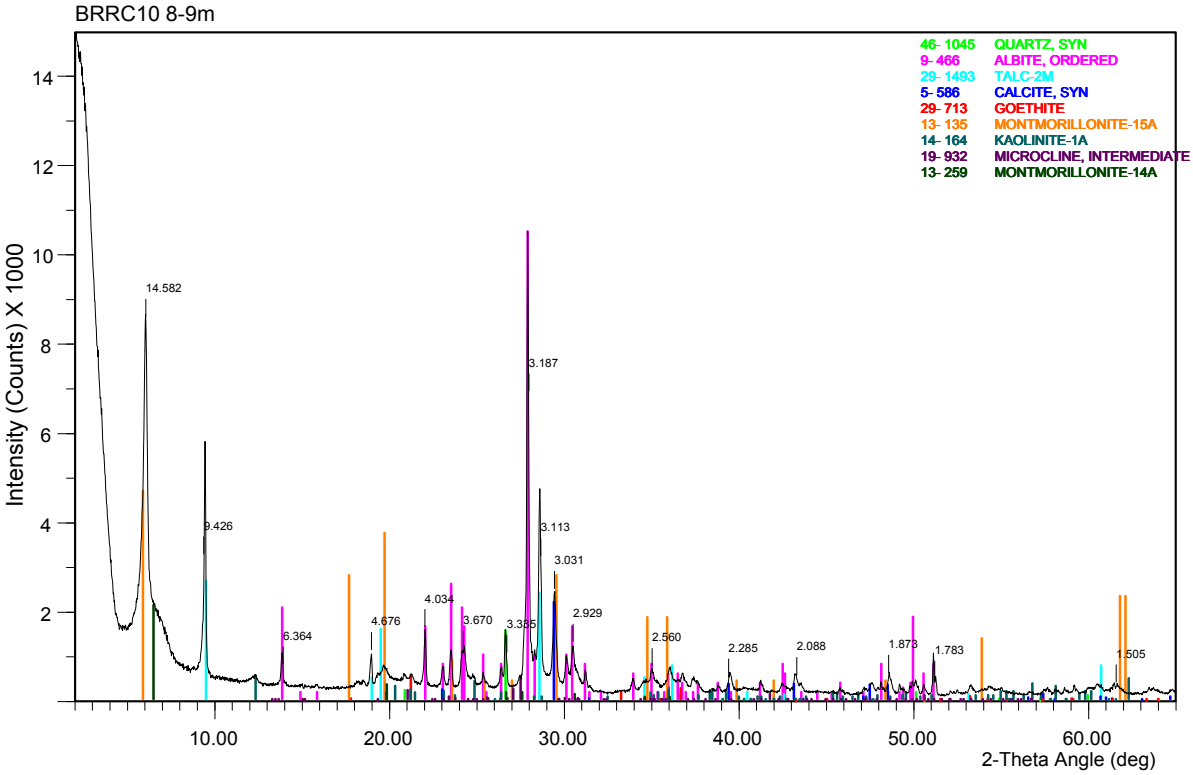
File Name: c:\...\9-27-28.xpt



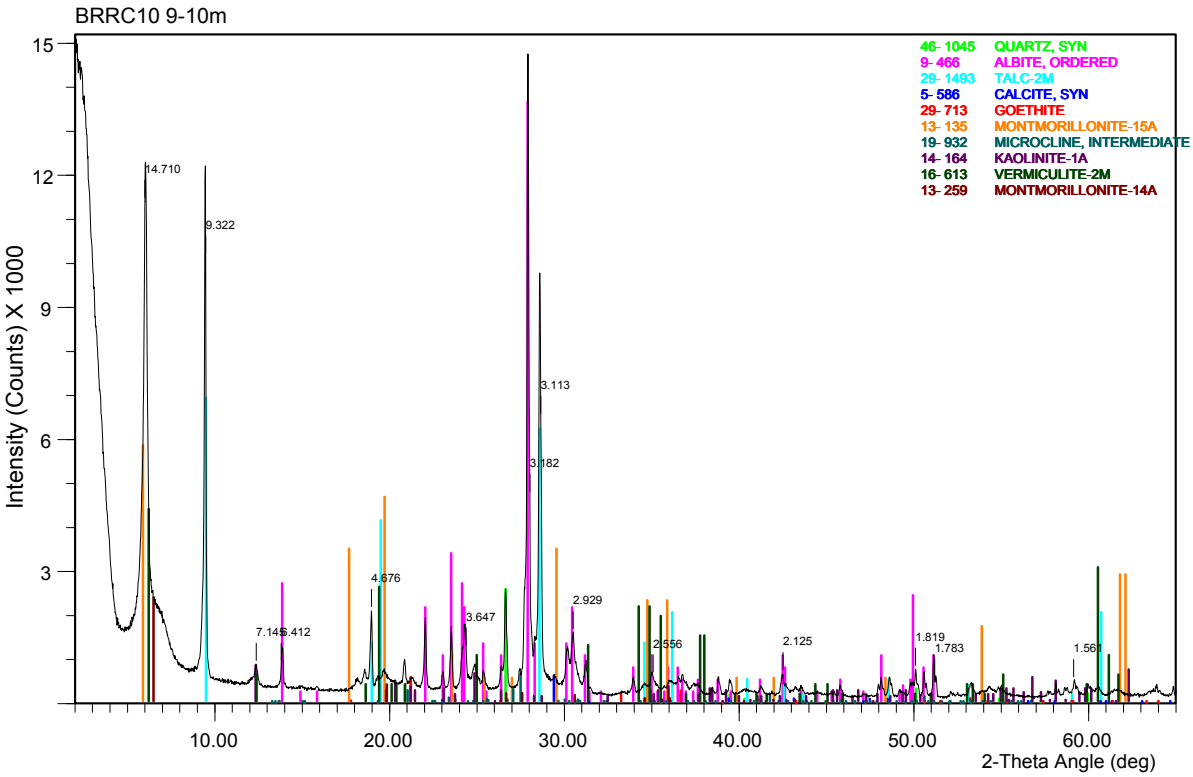
File Name: c:\...\9-28-29.xpt



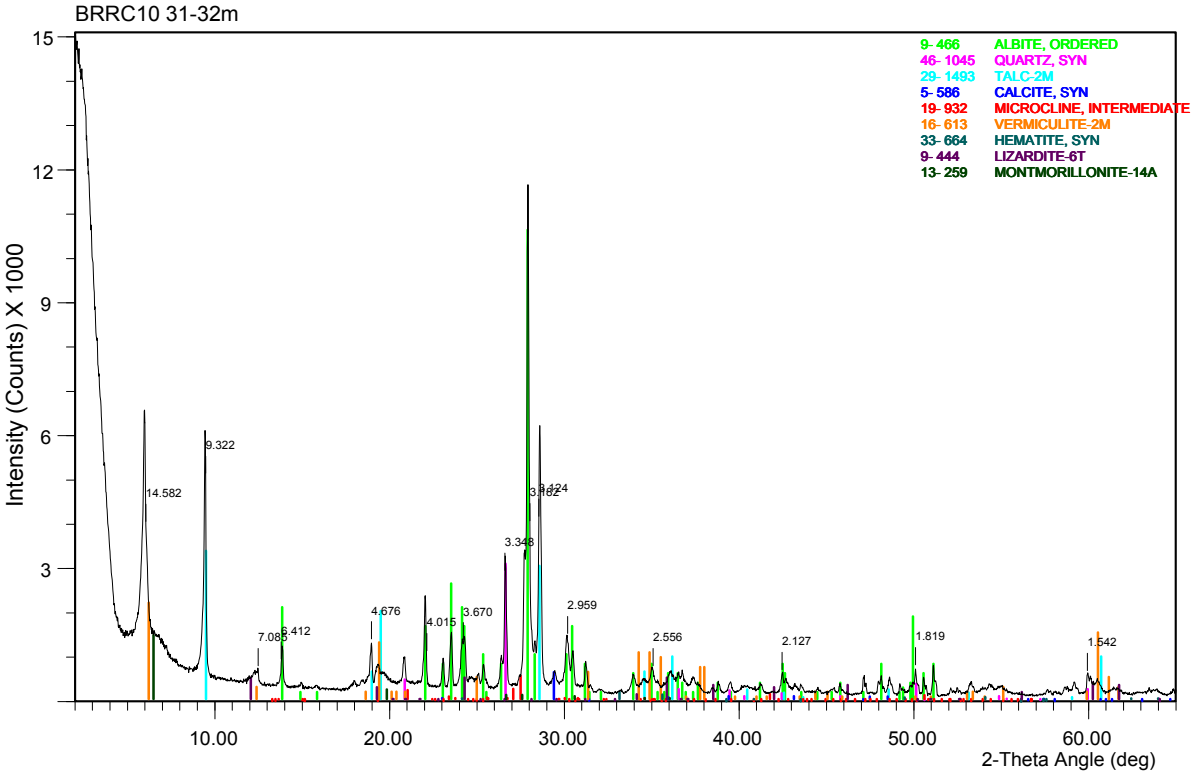
File Name: c:\...\9-31-32.xpt



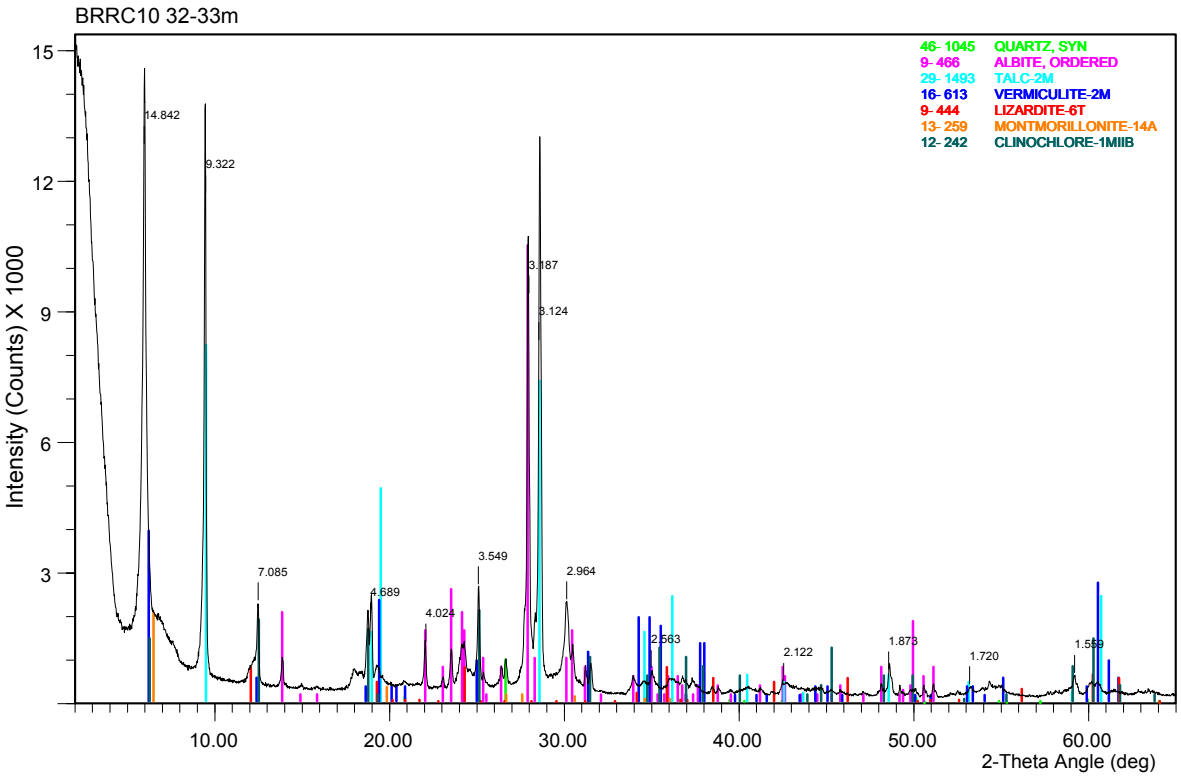
File Name: c:\...\xrd-xrf\10-8-9.xpt



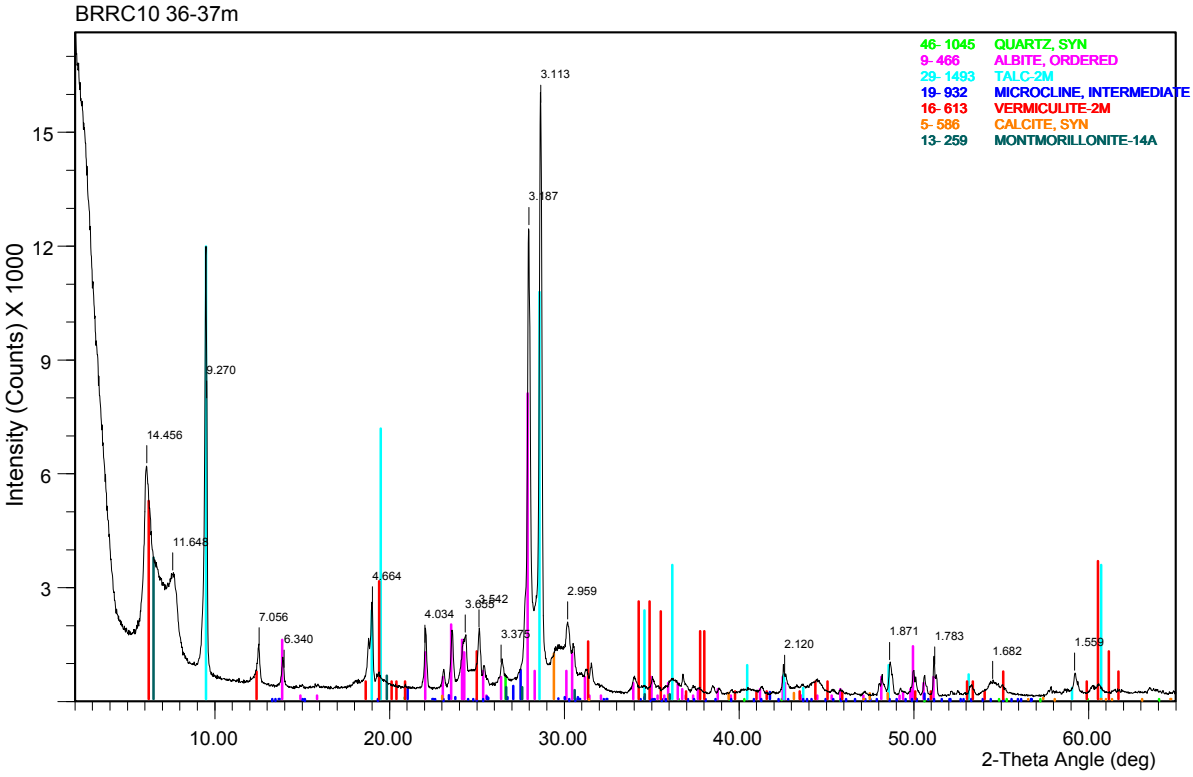
File Name: c:\...\10-9-10.xpt



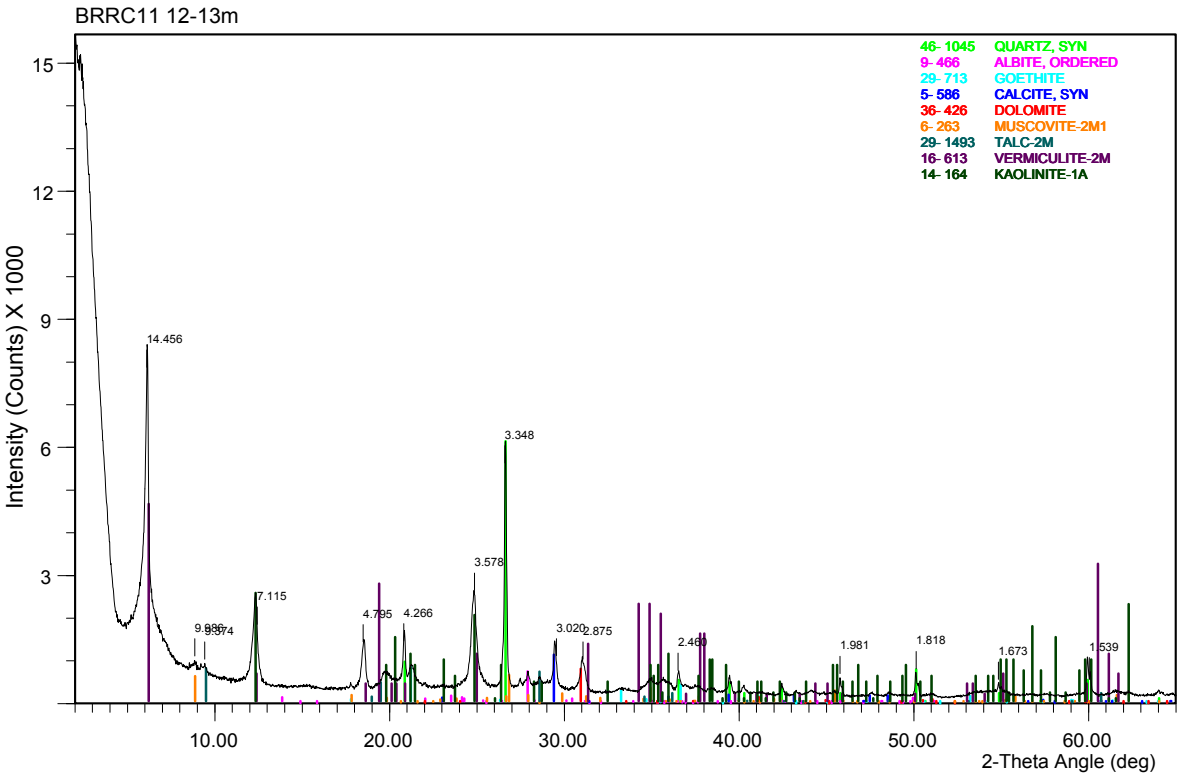
File Name: c:\...\10-31-32.xpt



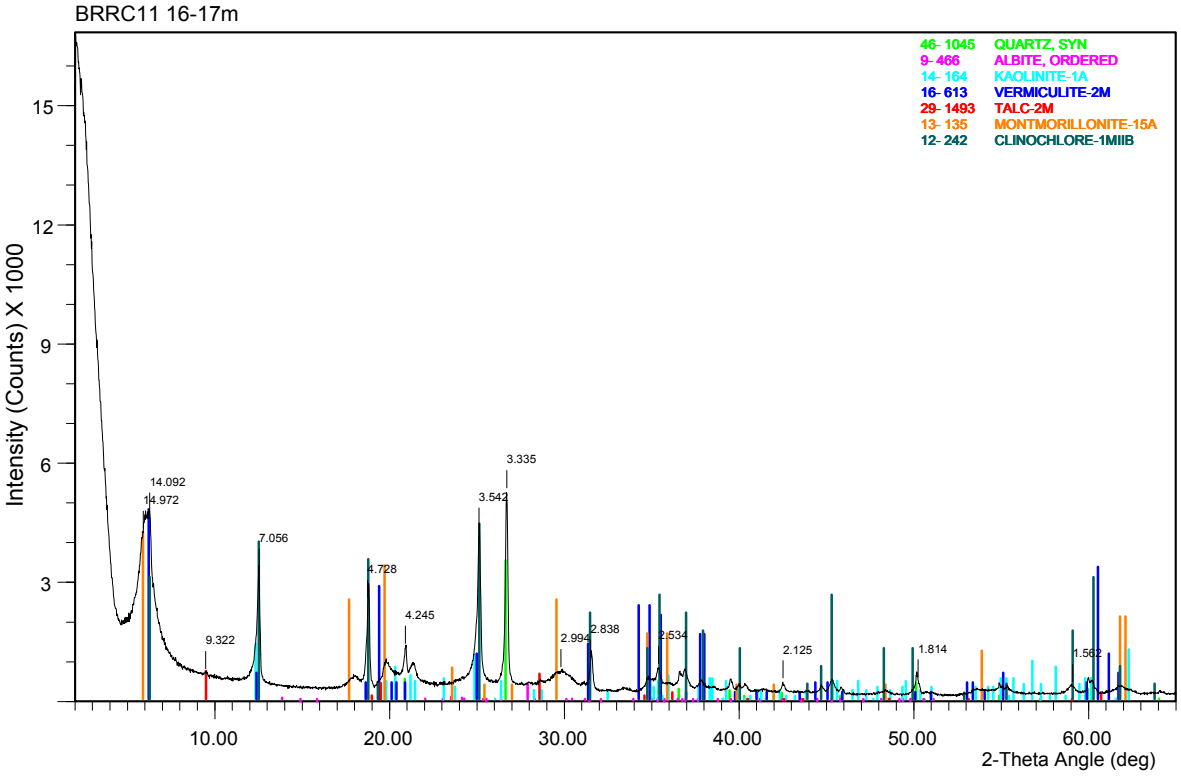
File Name: c:\...\10-32-33.xpt



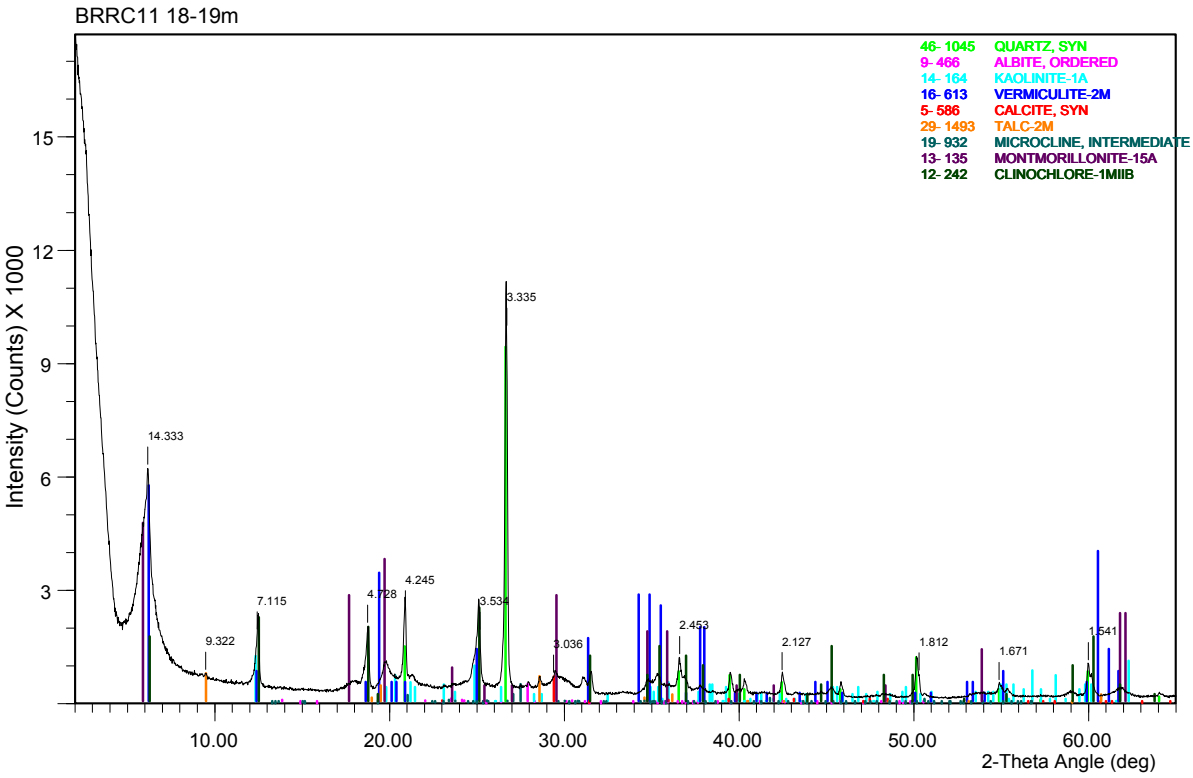
File Name: c:\...\10-36-37.xpt



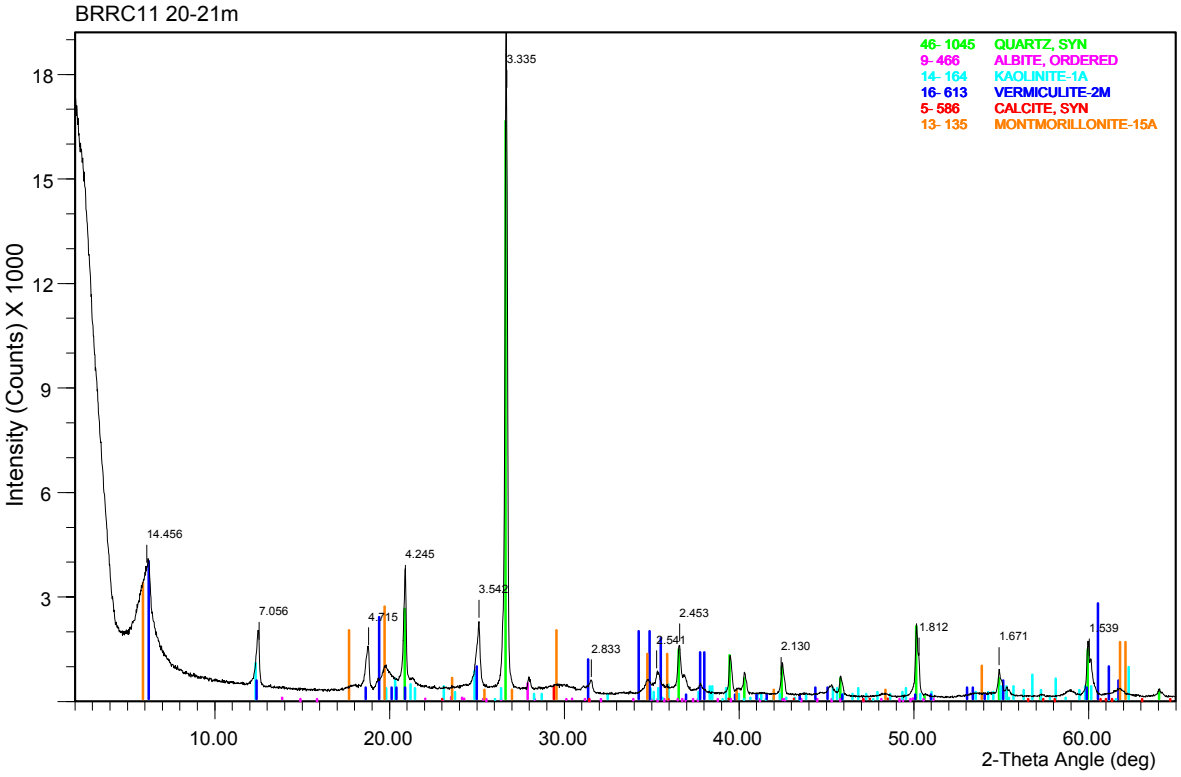
File Name: c:\...\11-12-13.xpt



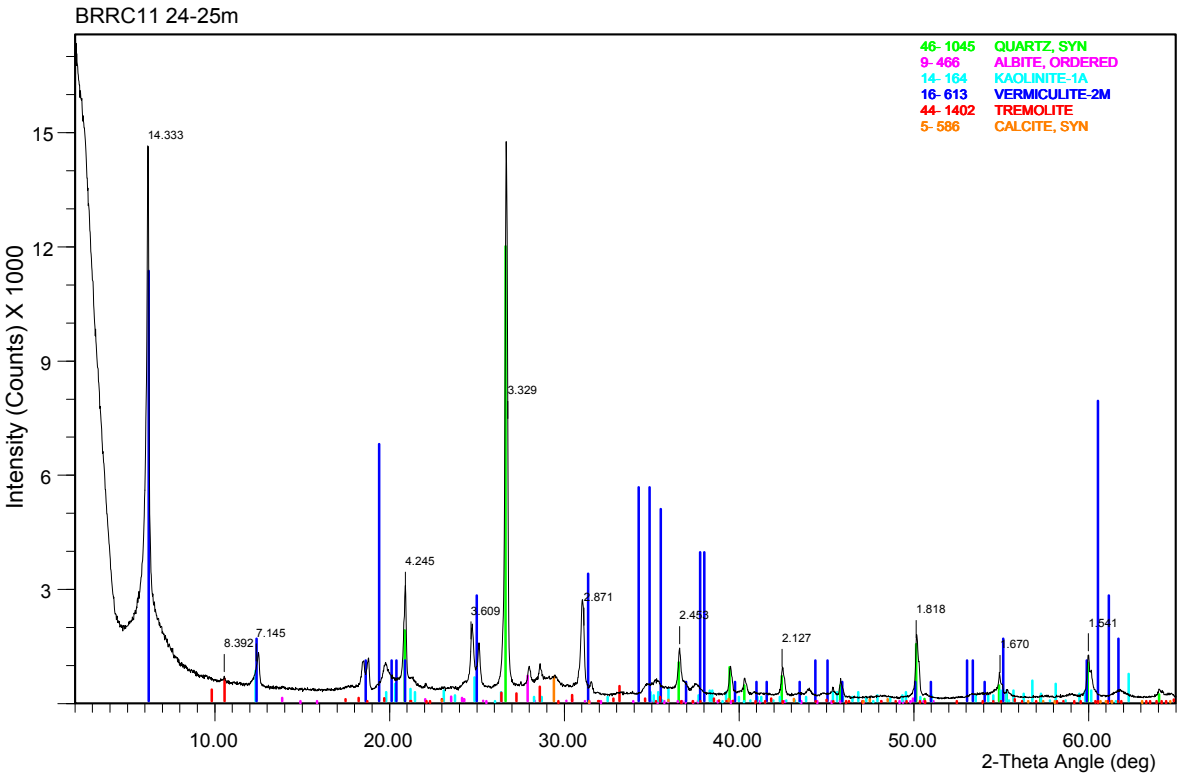
File Name: c:\...\11-16-17.xpt



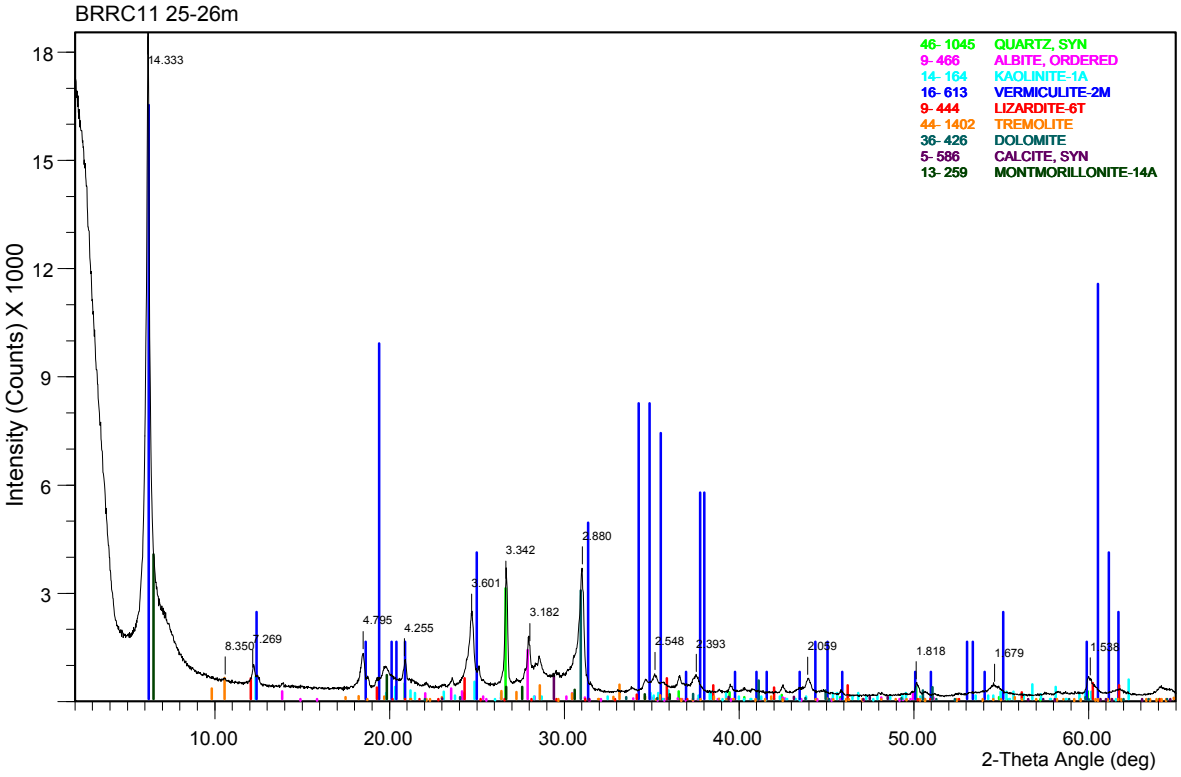
File Name: c:\...\11-18-19.xpt



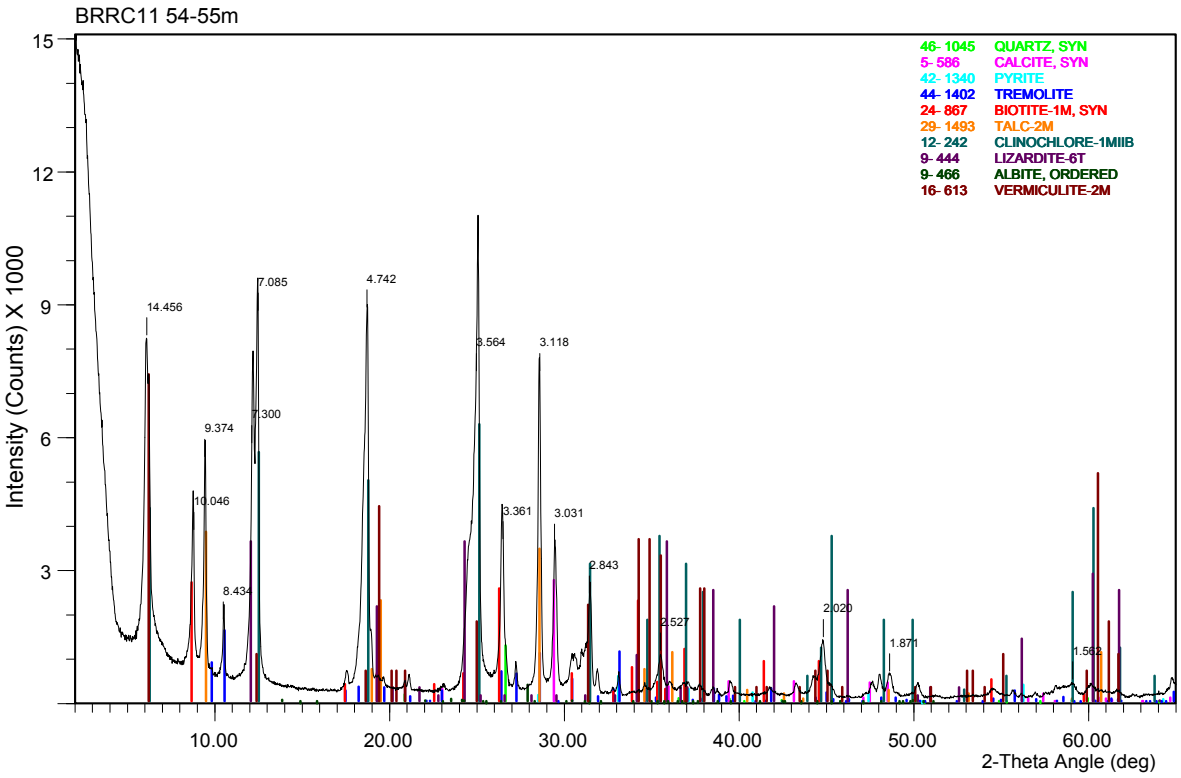
File Name: c:\...\11-20-21.xpt



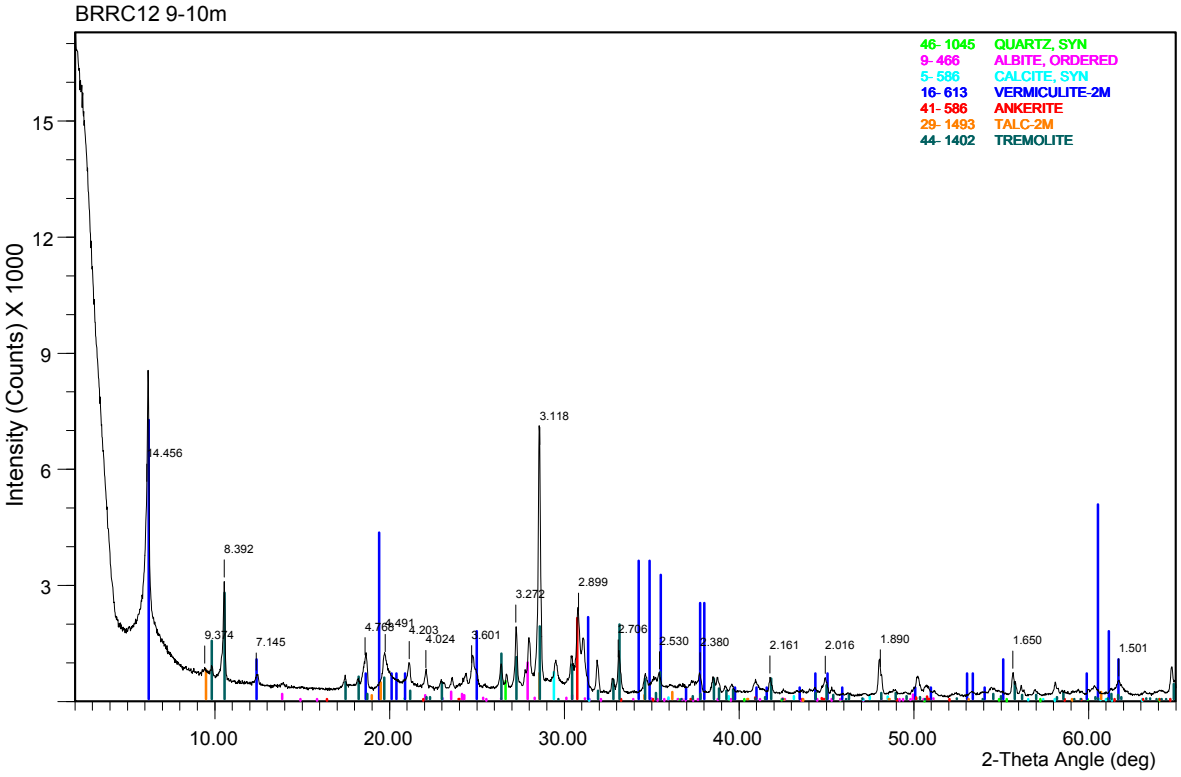
File Name: c:\...\11-24-25.xpt



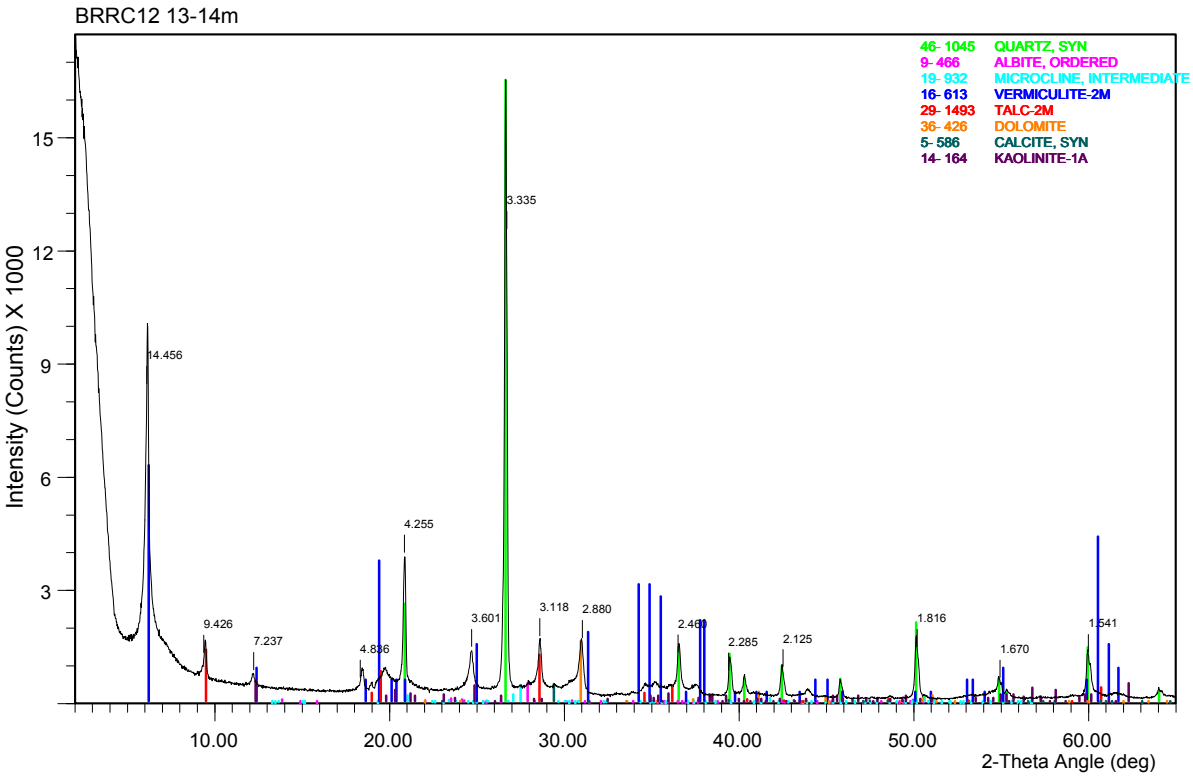
File Name: c:\...\11-25-26.xpt



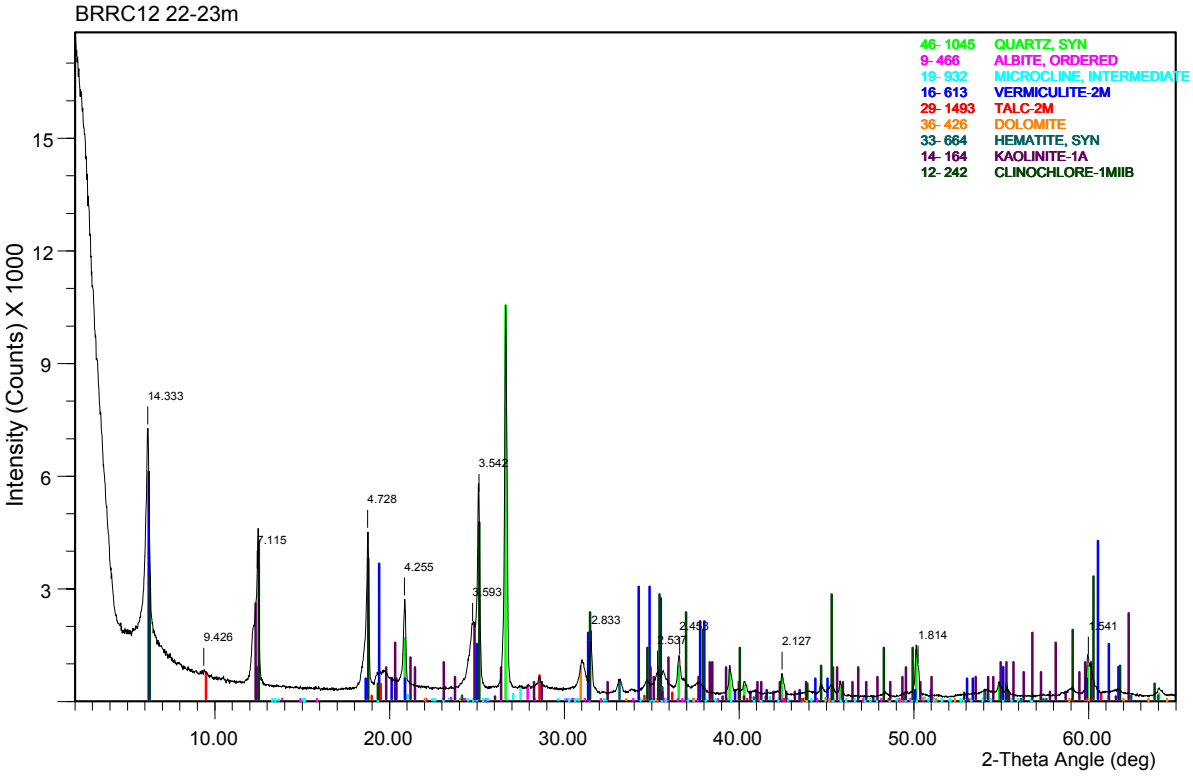
File Name: c:\...\11-54-55.xpt



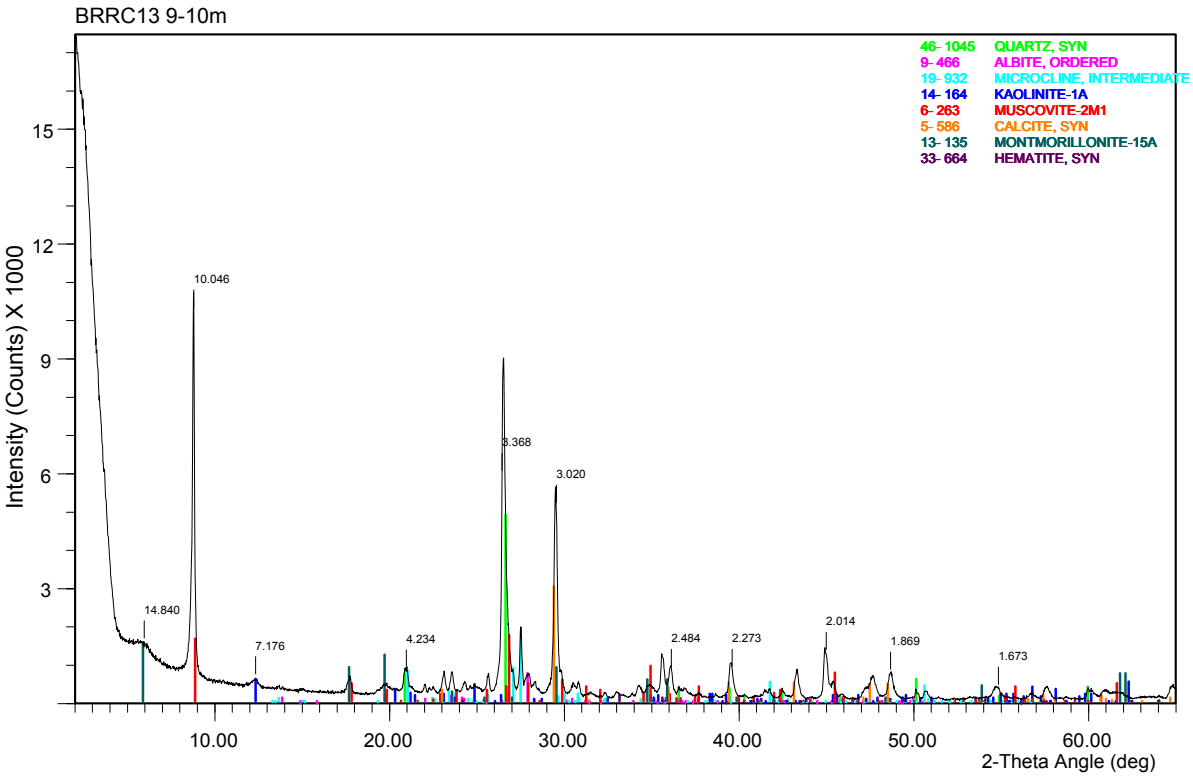
File Name: c:\...\12-9-10.xpt



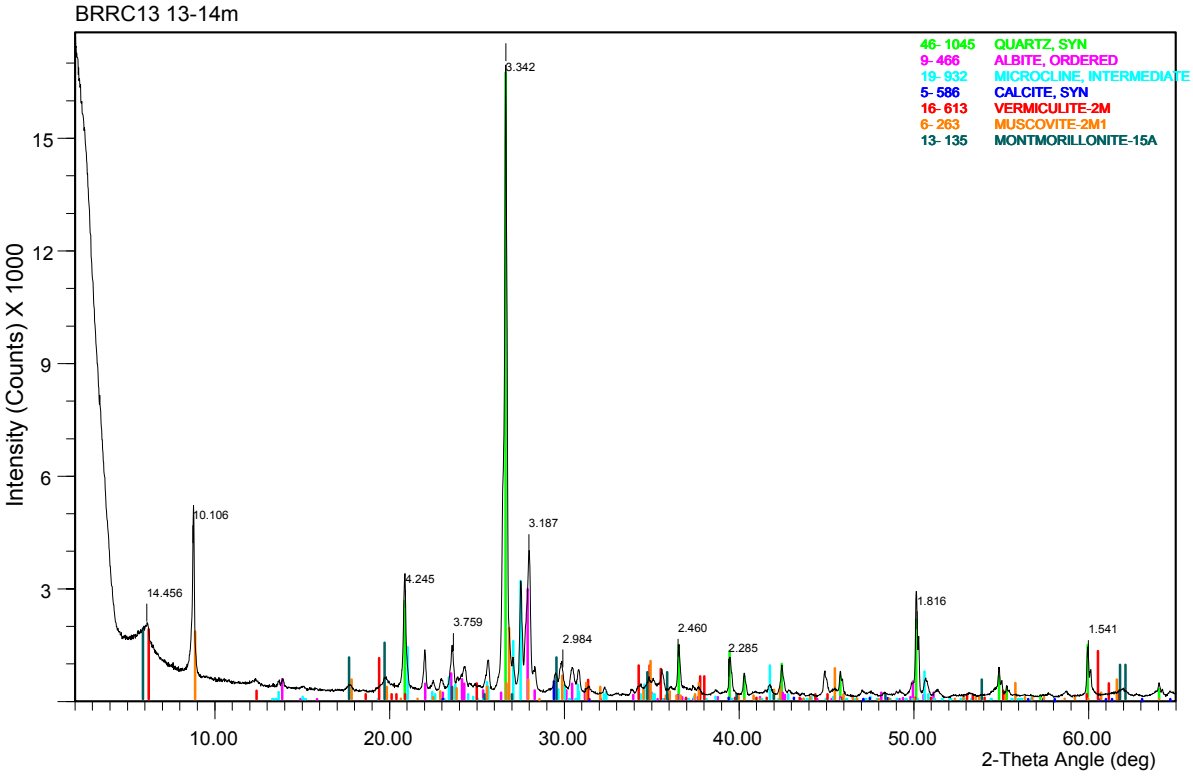
File Name: c:\...\12-13-14.xpt



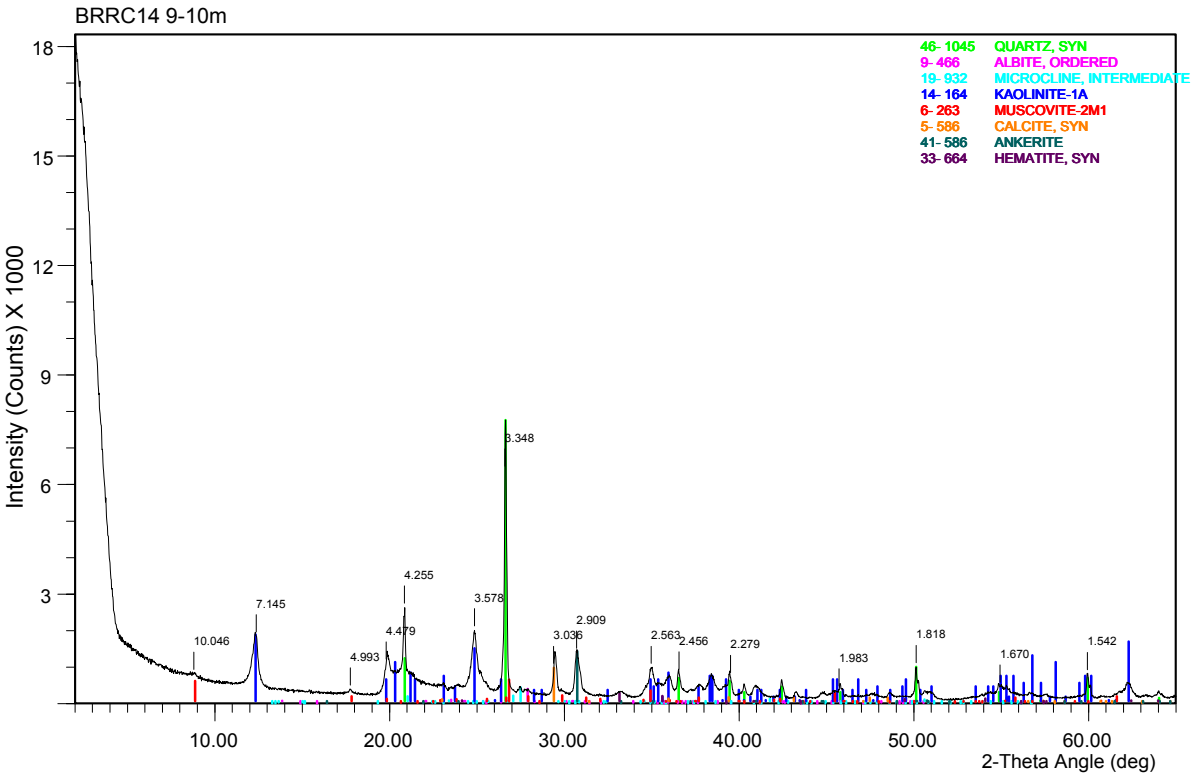
File Name: c:\...\12-22-23.xpt



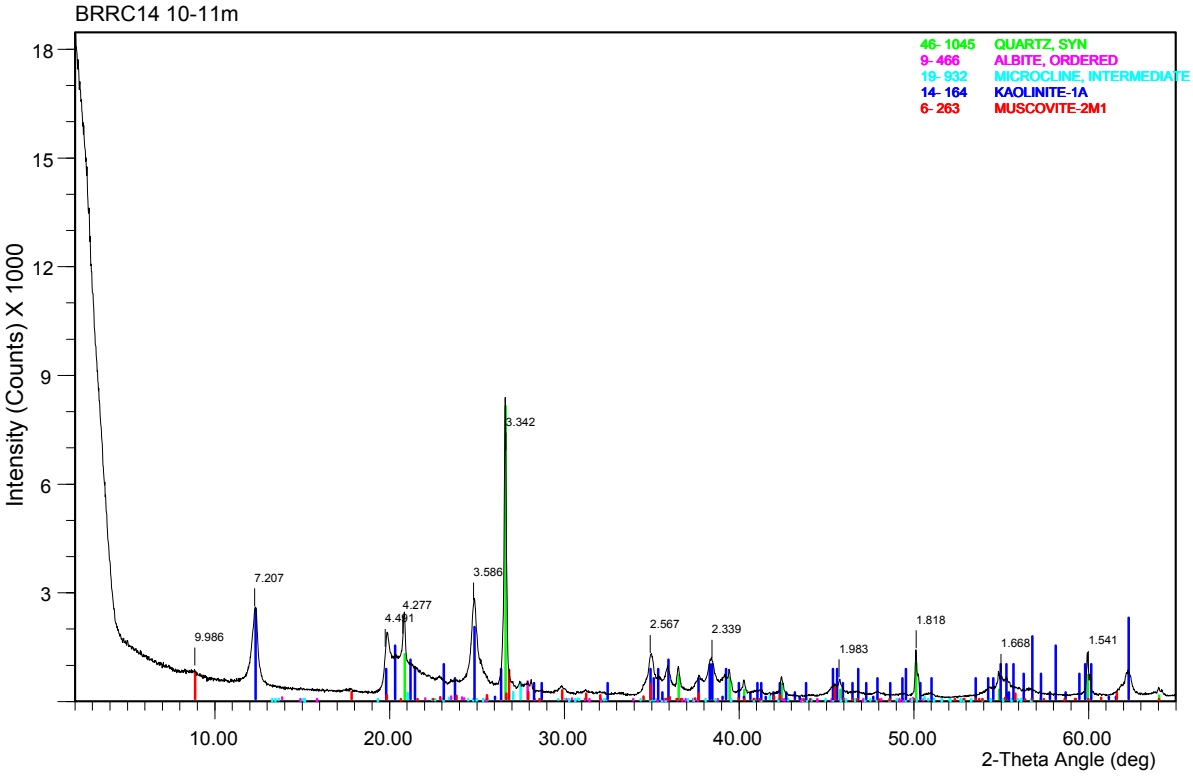
File Name: c:\...\13-9-10.xpt



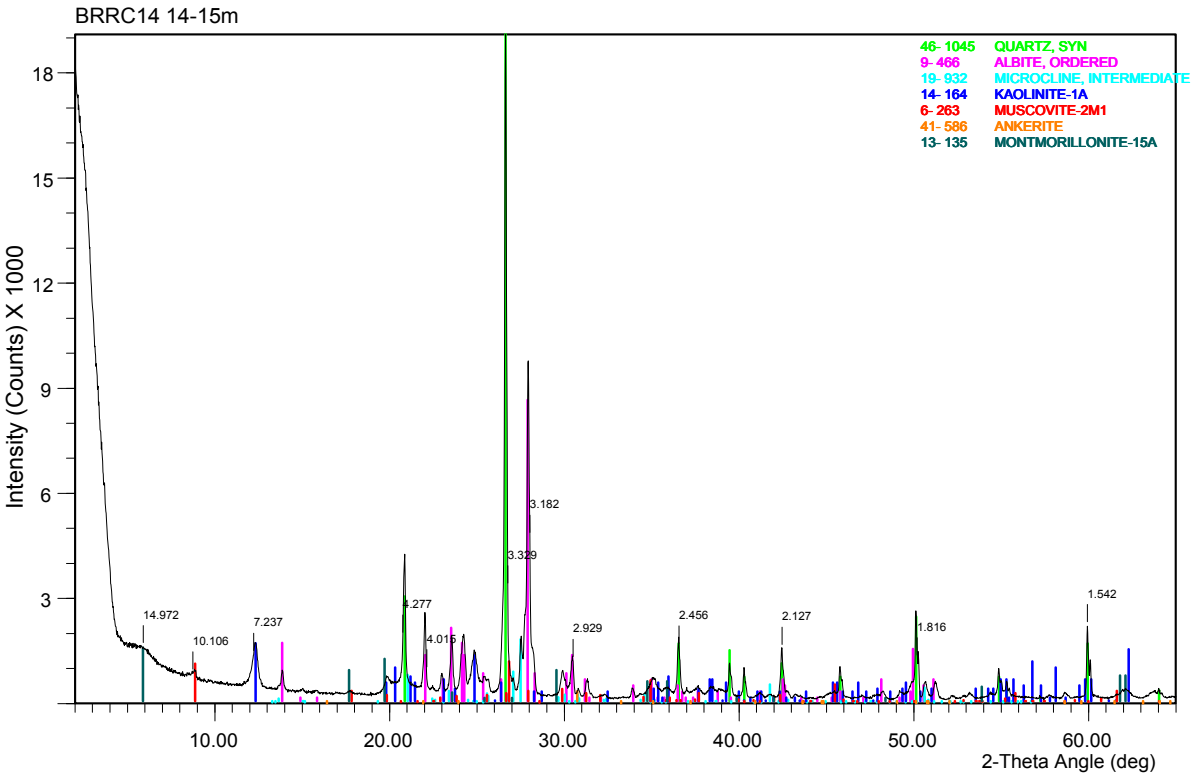
File Name: c:\...\13-13-14.xpt



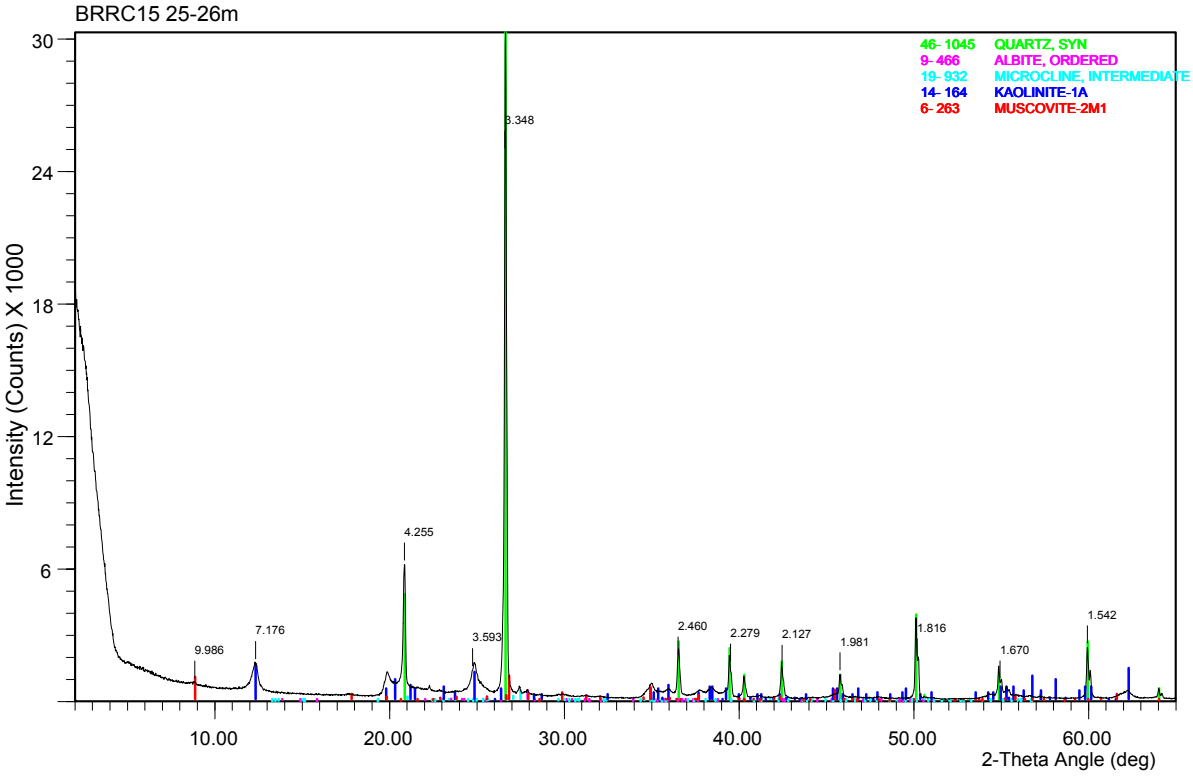
File Name: c:\...\14-9-10.xpt



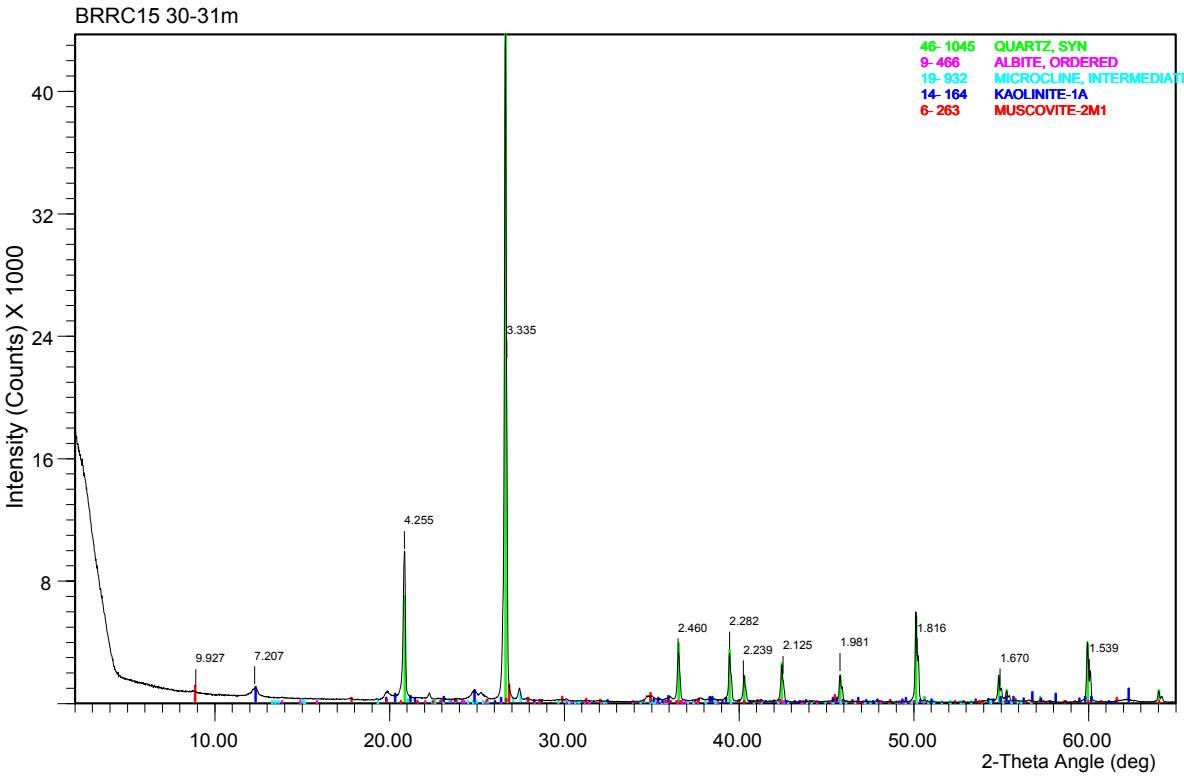
File Name: c:\...\14-10-11.xpt



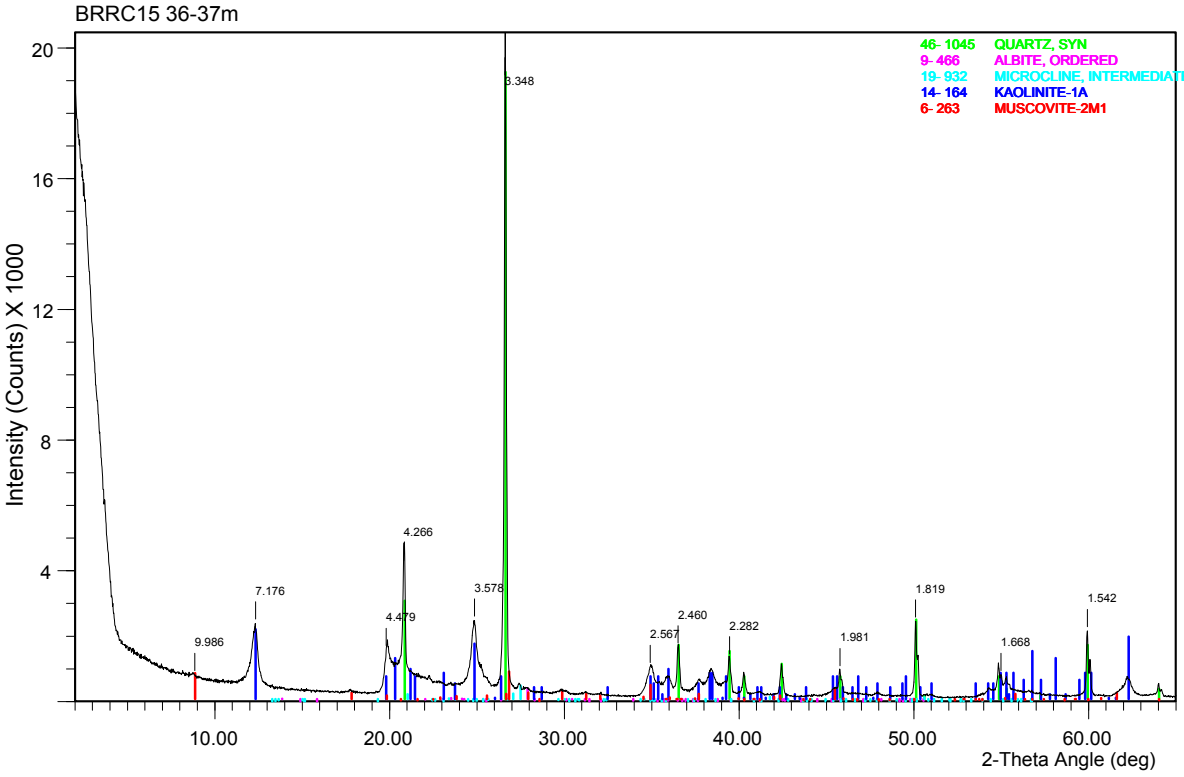
File Name: c:\...\14-14-15.xpt



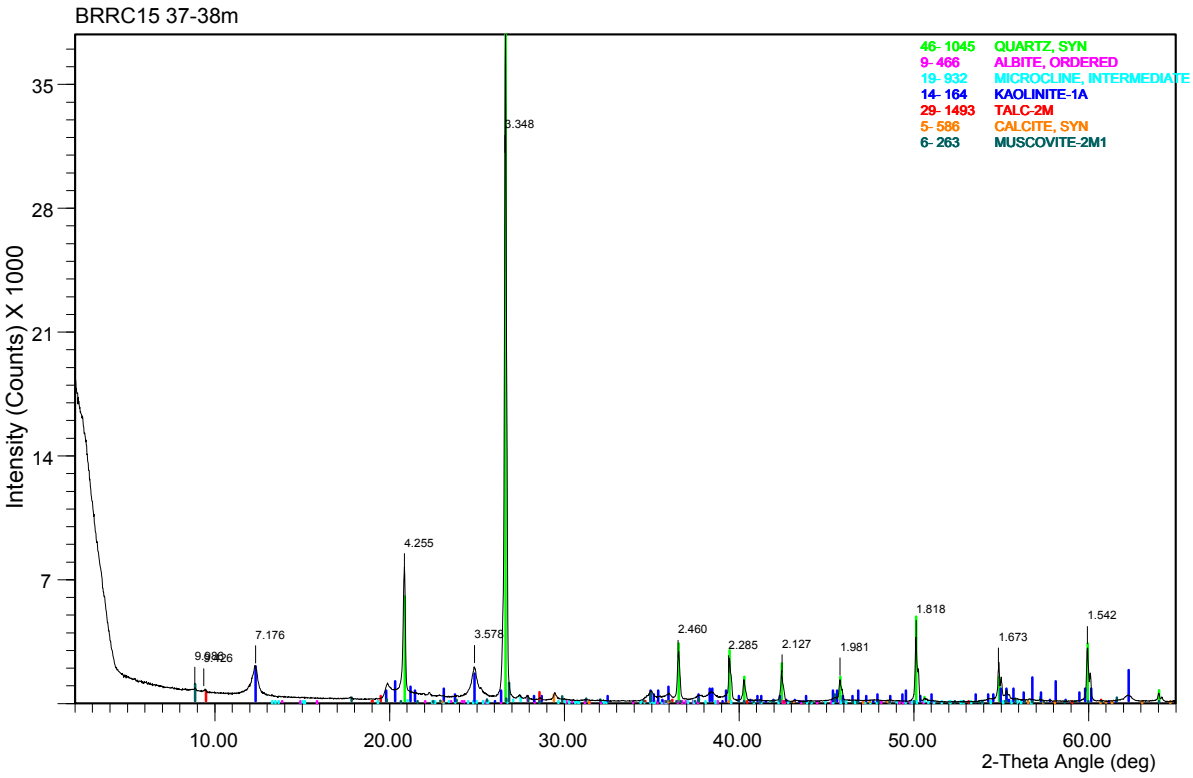
File Name: c:\...\15-25-26.xpt



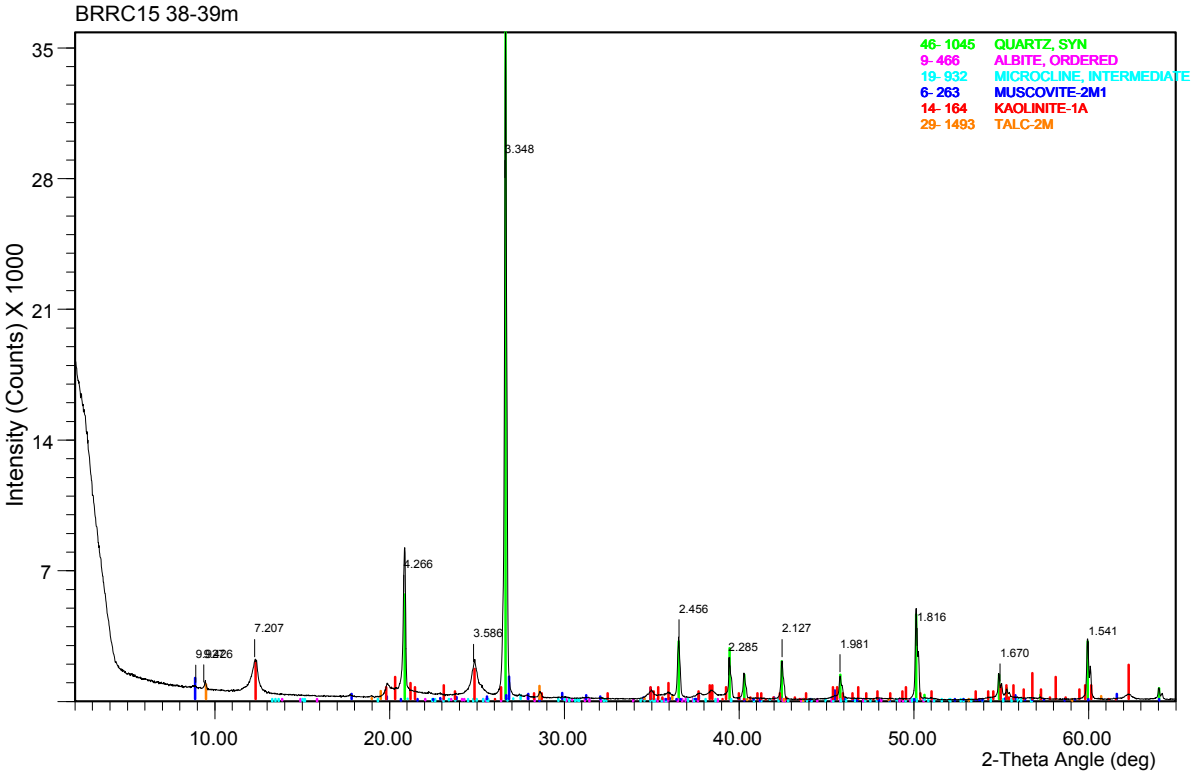
File Name: c:\...\15-30-31.xpt



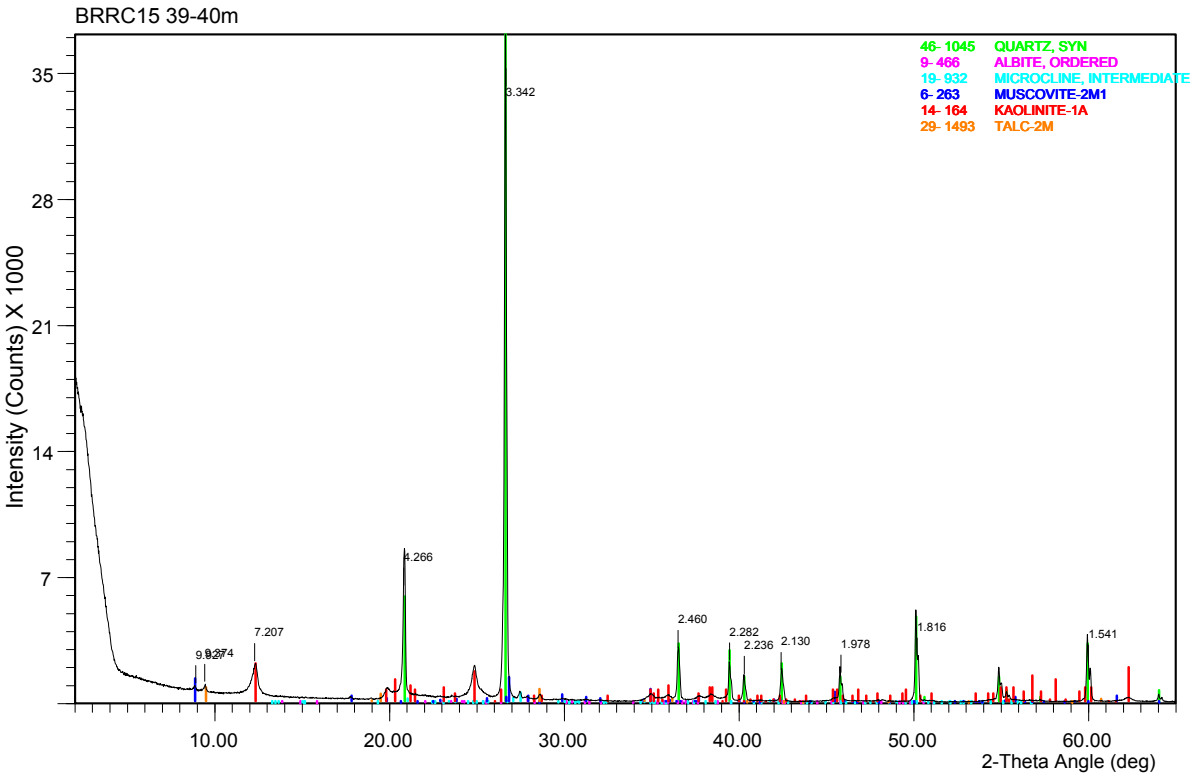
File Name: c:\...\15-36-37.xpt



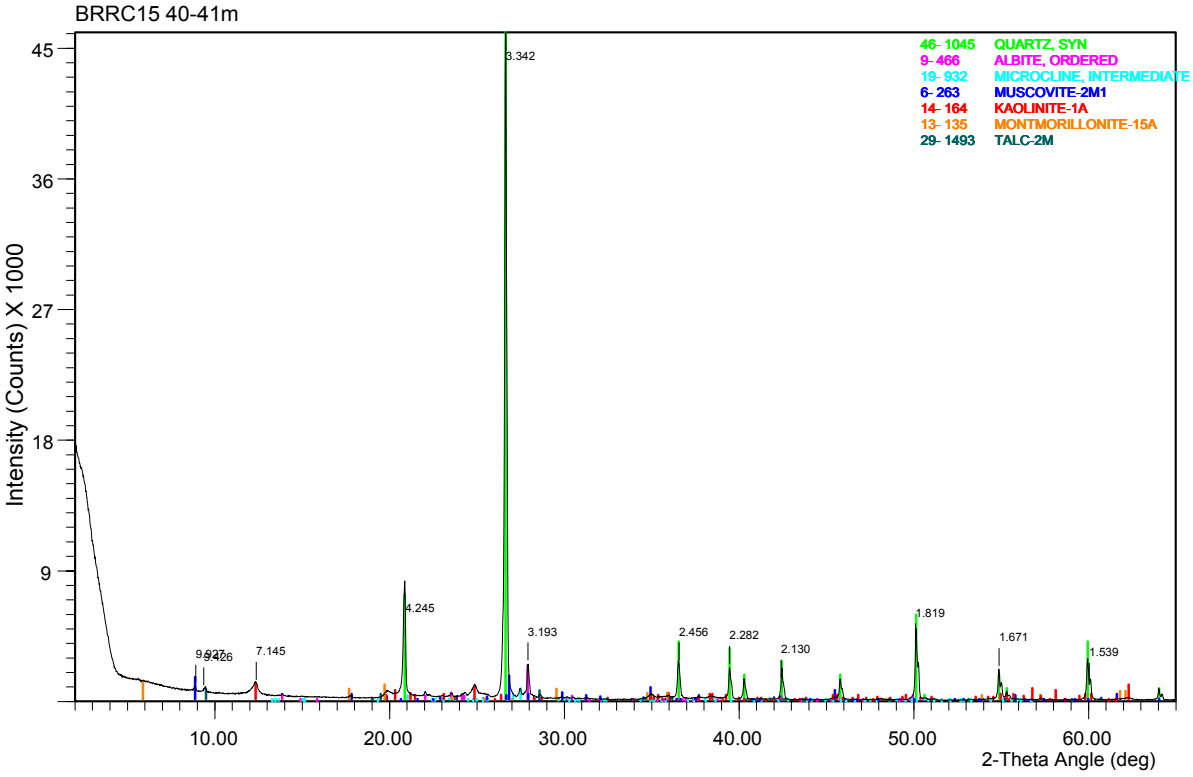
File Name: c:\...\15-37-38.xpt



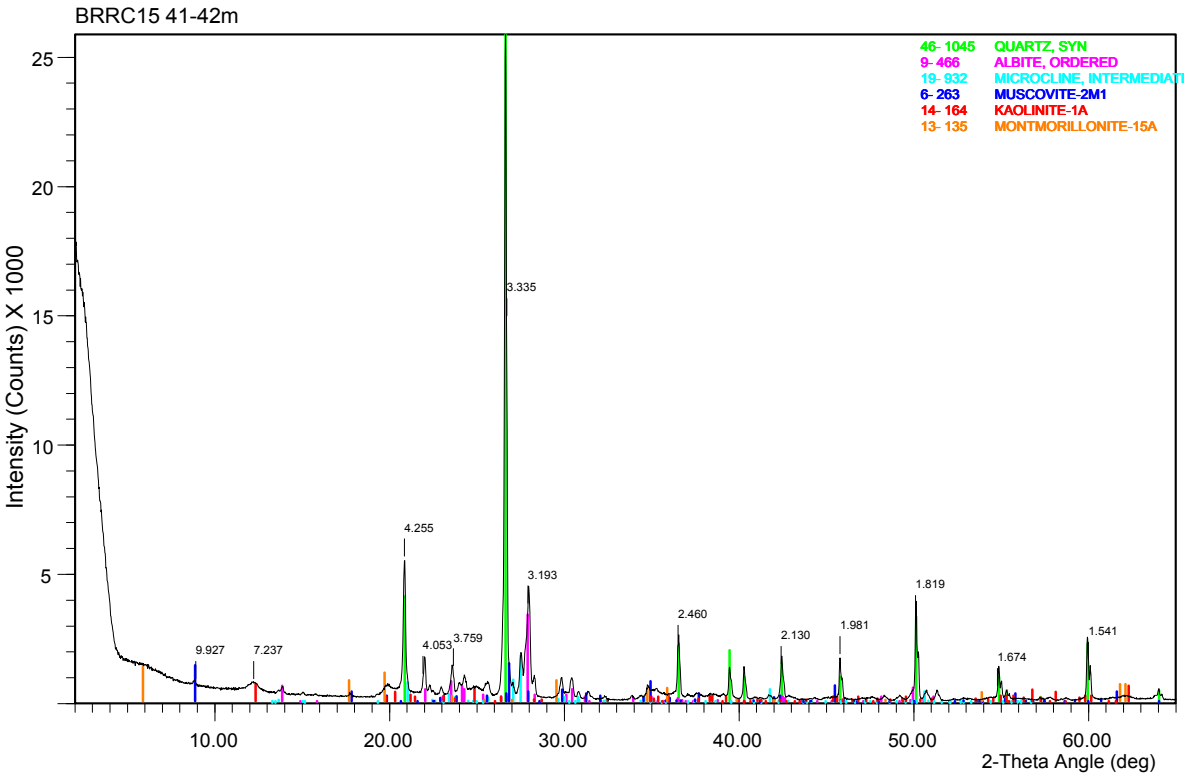
File Name: c:\...\15-38-39.xpt



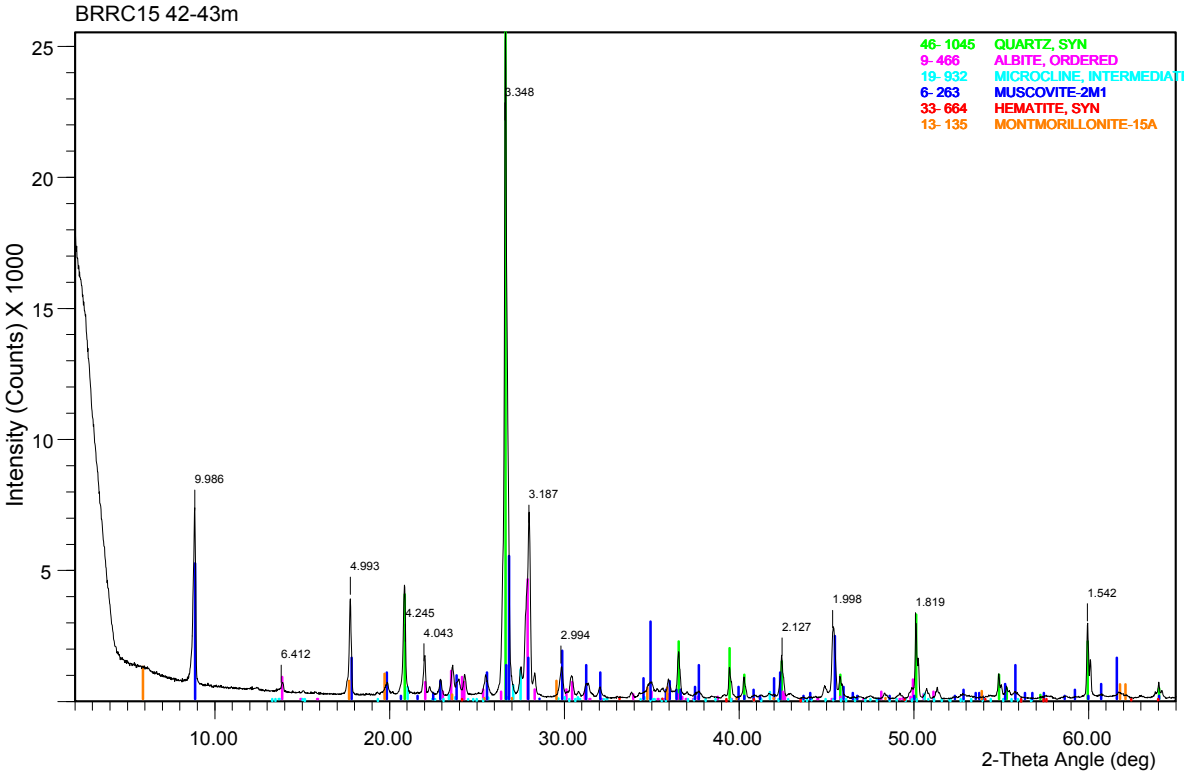
File Name: c:\...\15-39-40.xpt



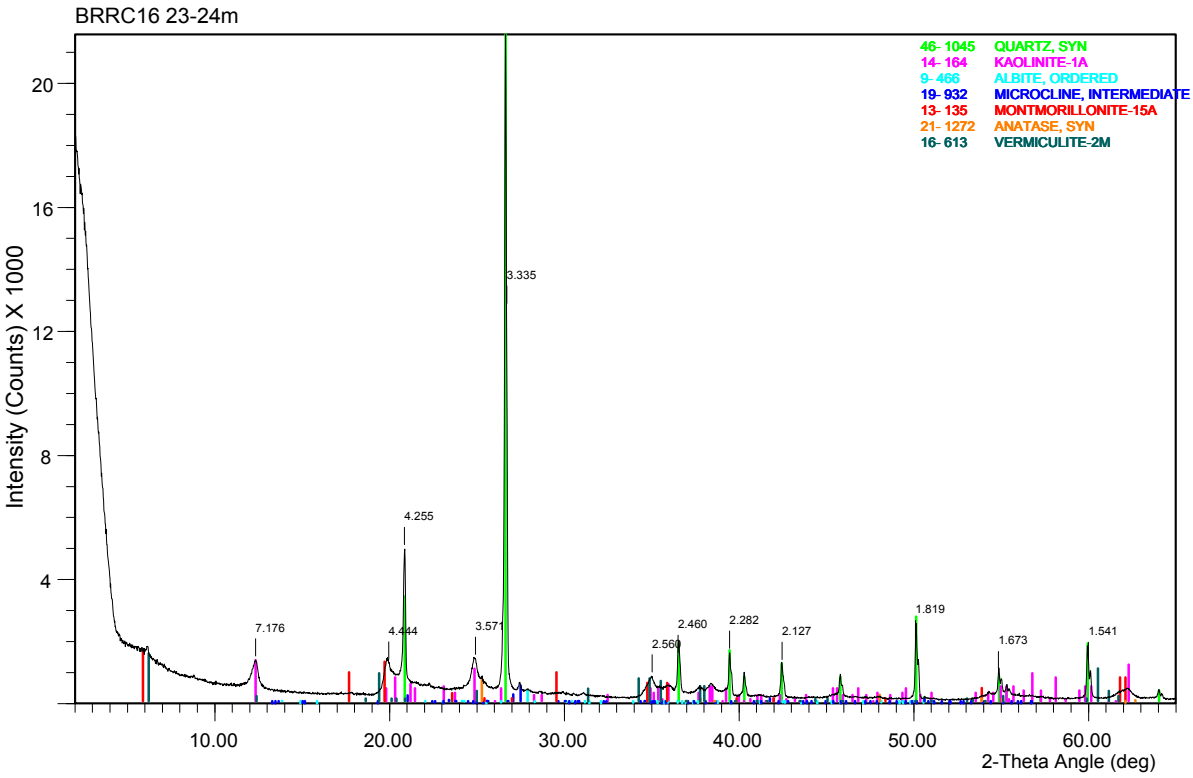
File Name: c:\...\15-40-41.xpt



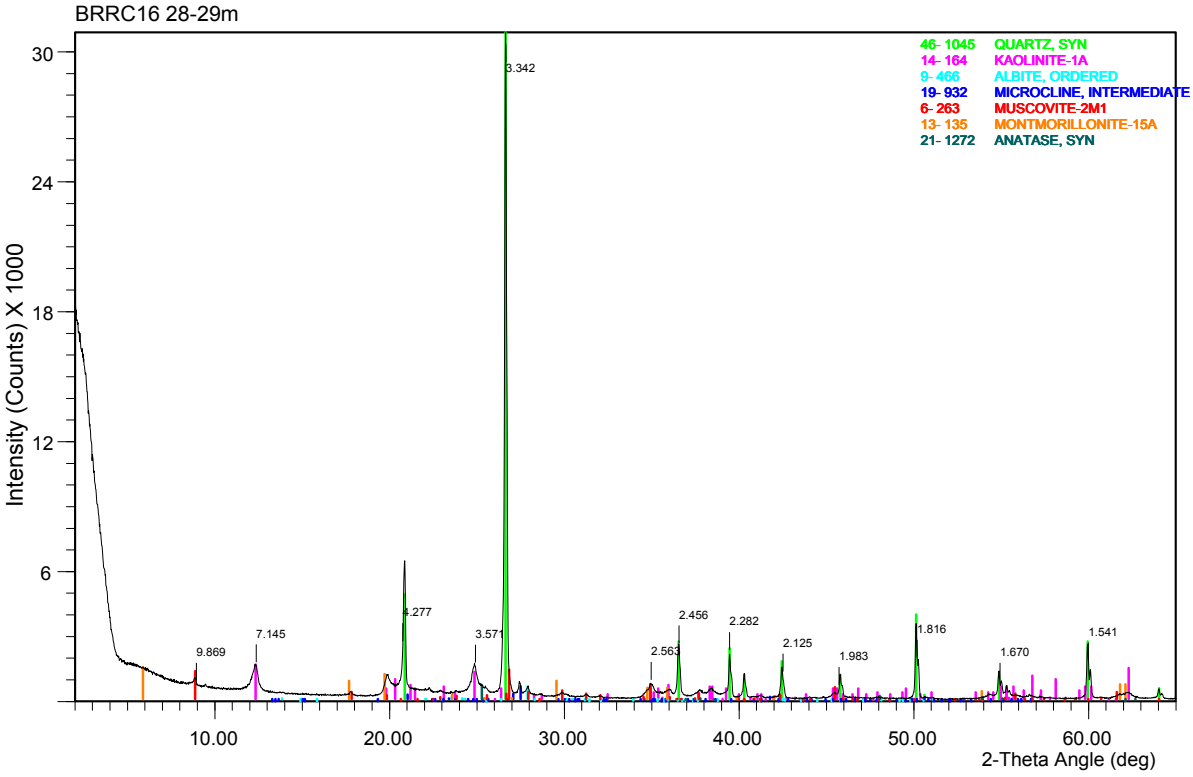
File Name: c:\...\15-41-42.xpt



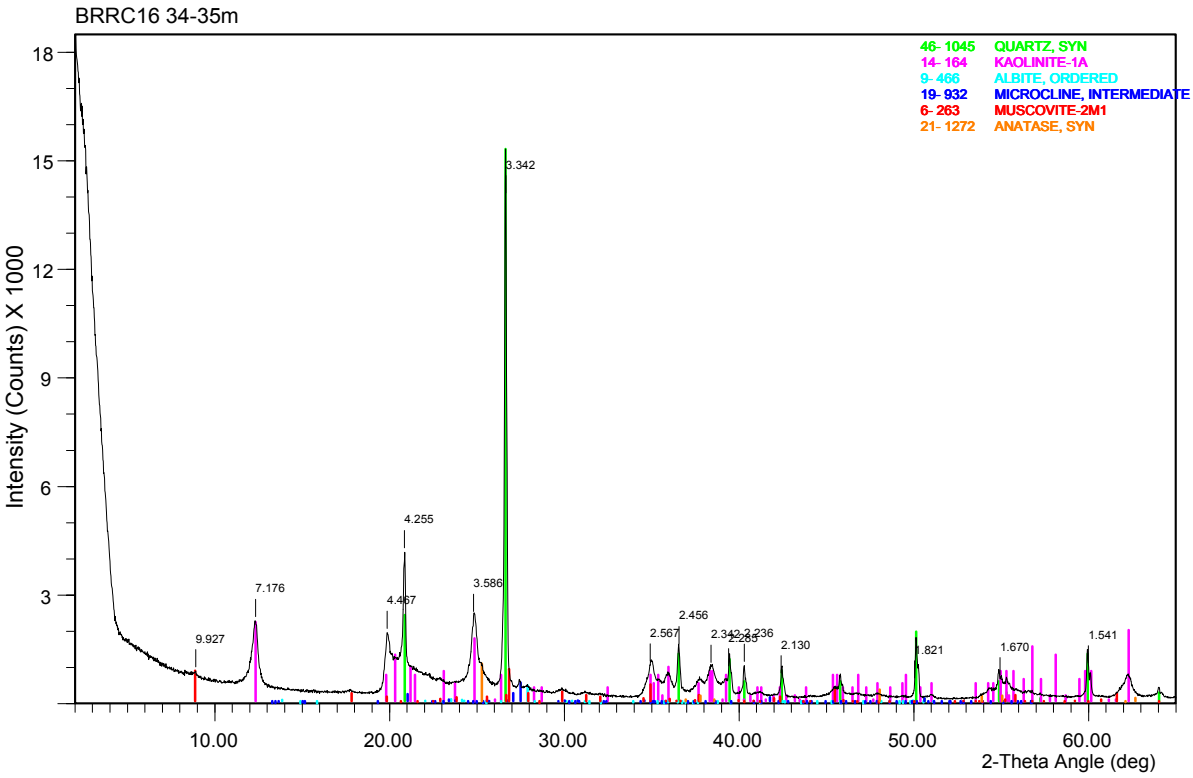
File Name: c:\...\15-42-43.xpt



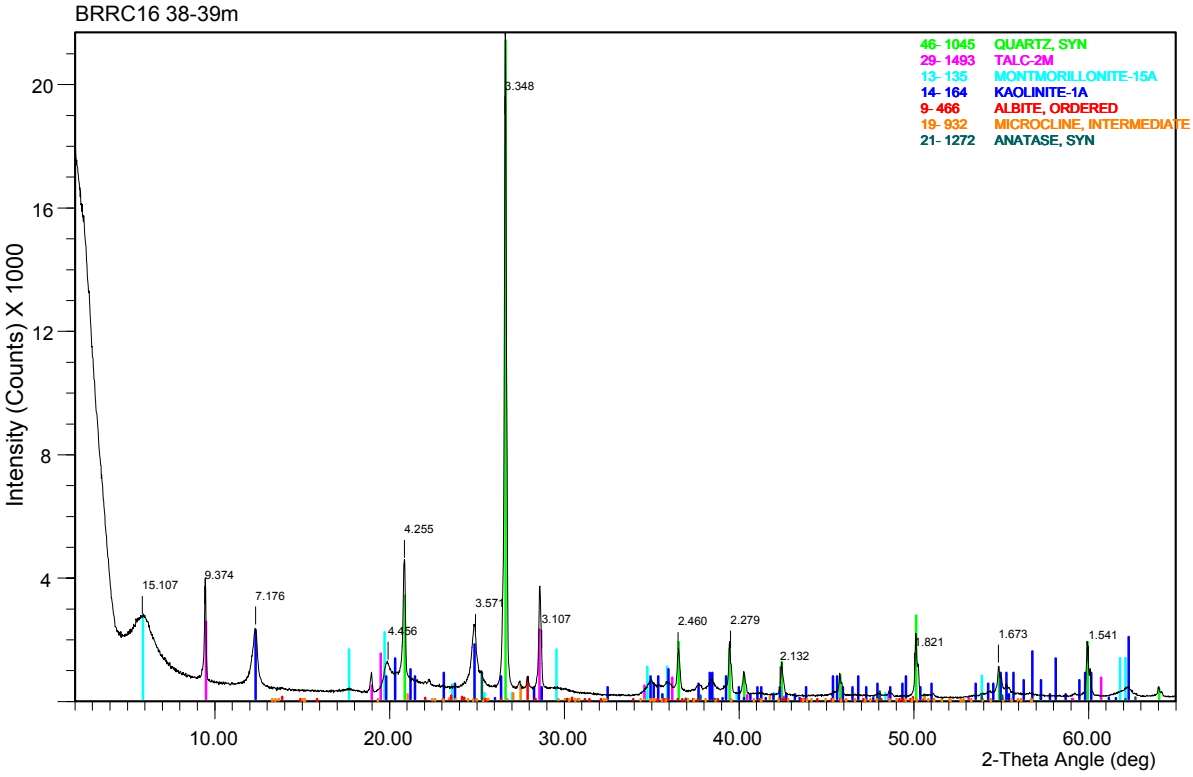
File Name: c:\...\16-23-24.xpt



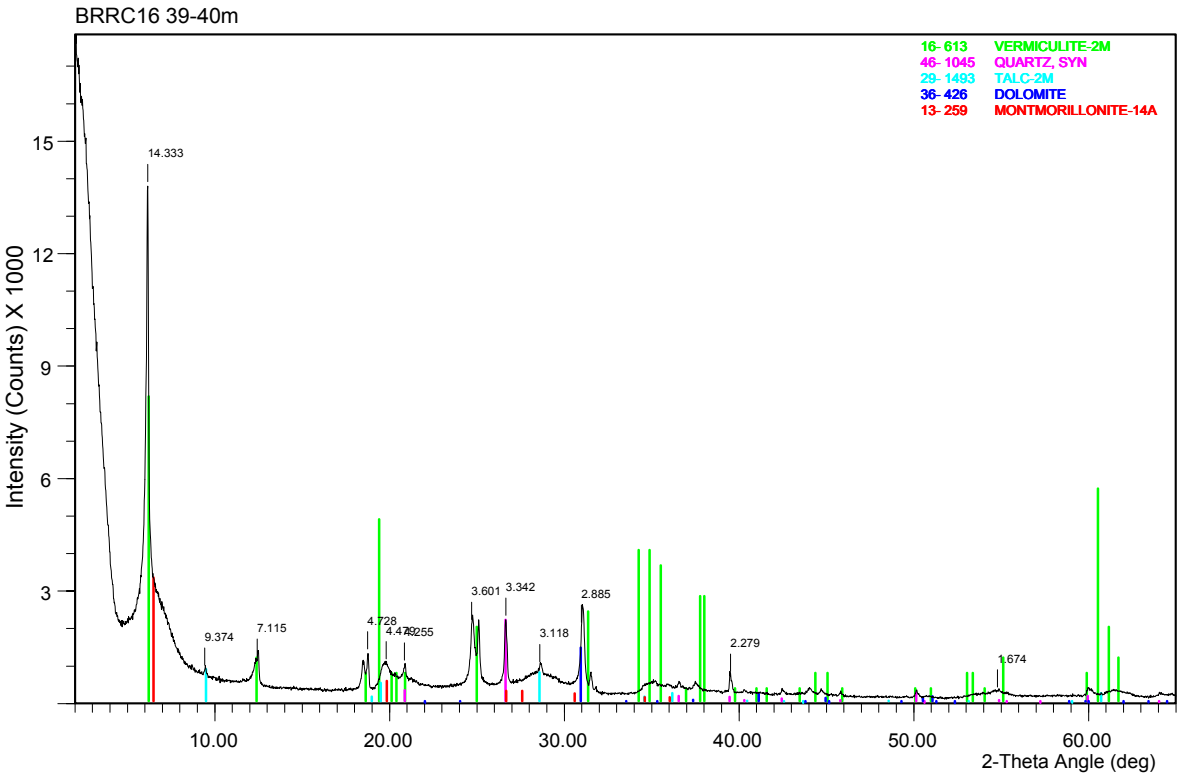
File Name: c:\...\16-28-29.xpt



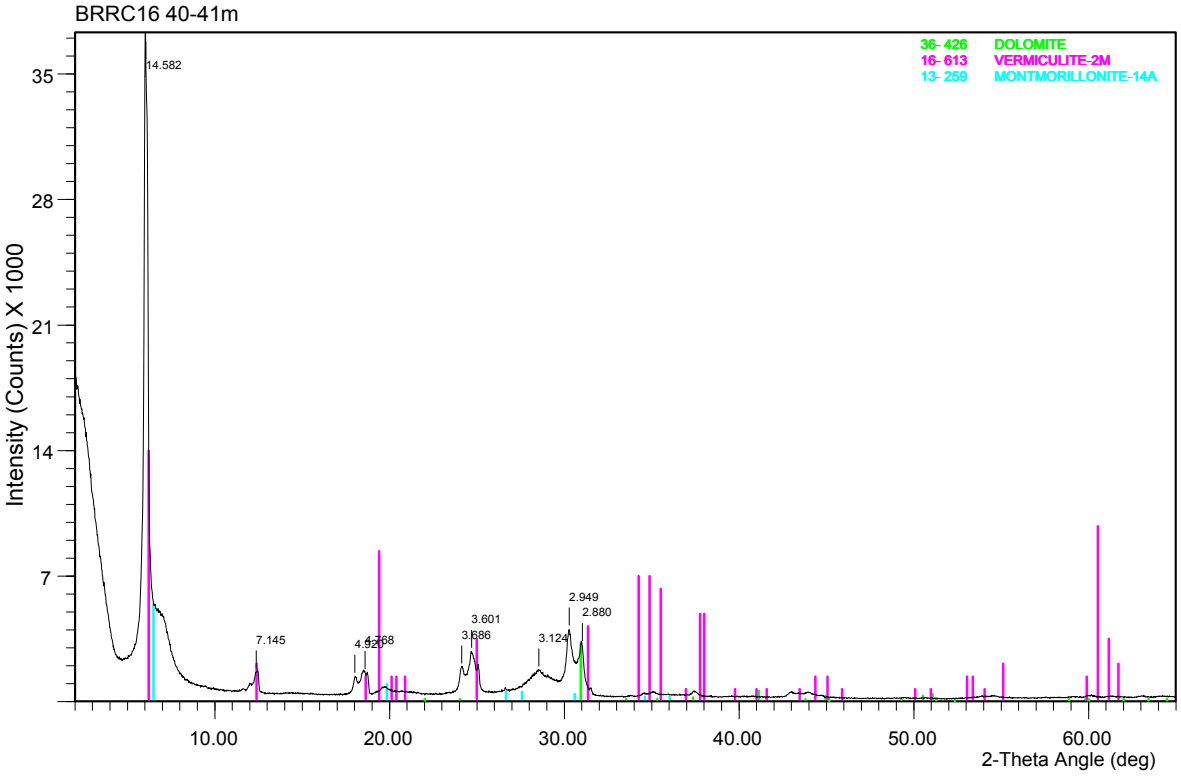
File Name: c:\...\16-34-35.xpt



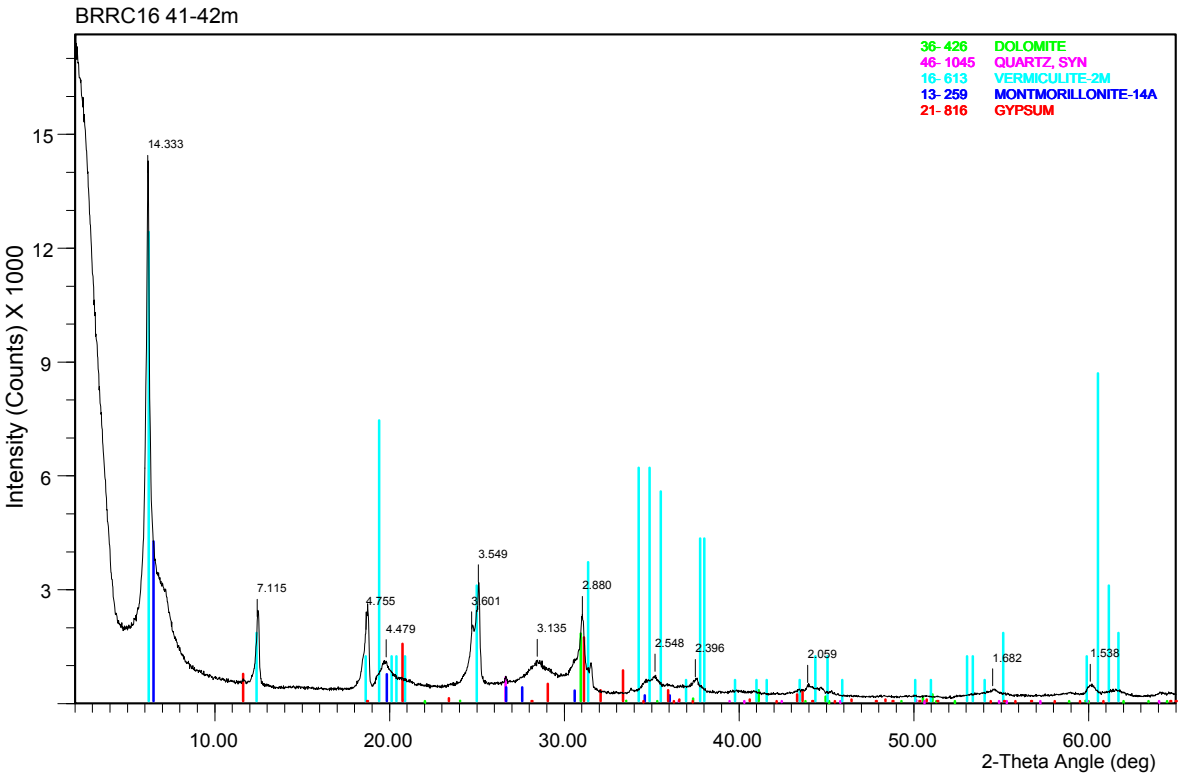
File Name: c:\...\16-38-39.xpt



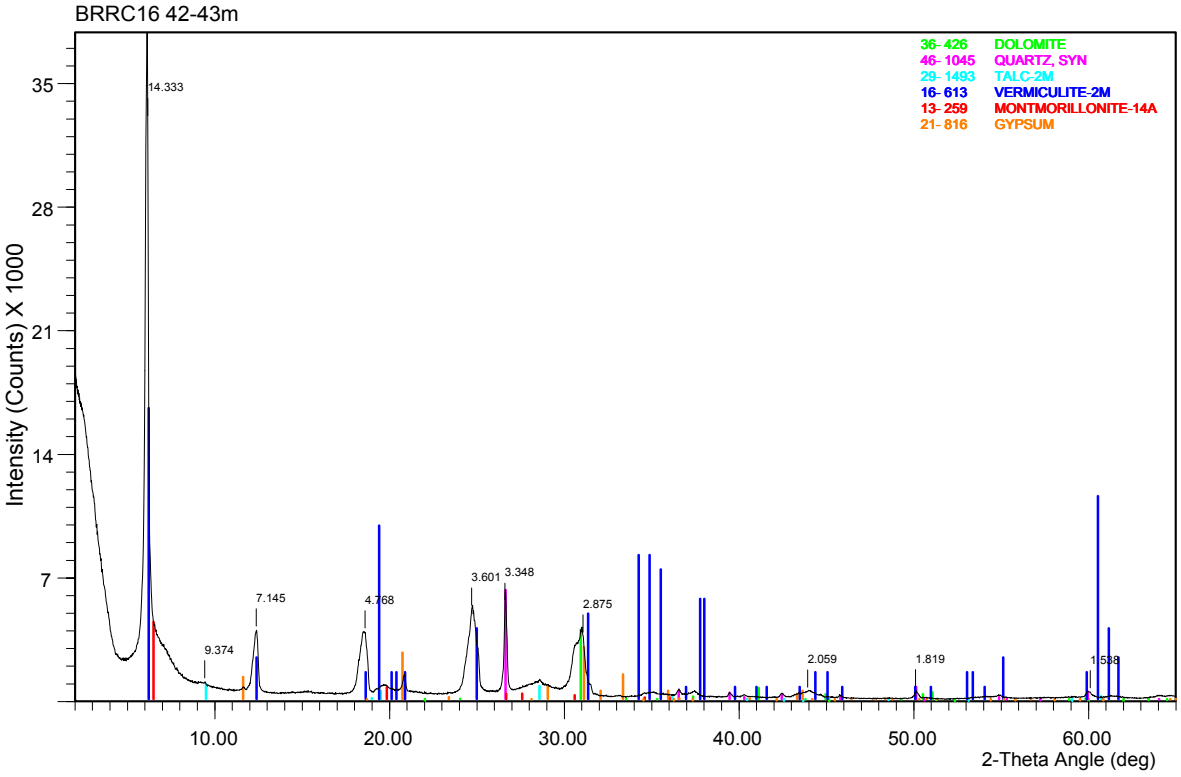
File Name: c:\...\16-39-40.xpt



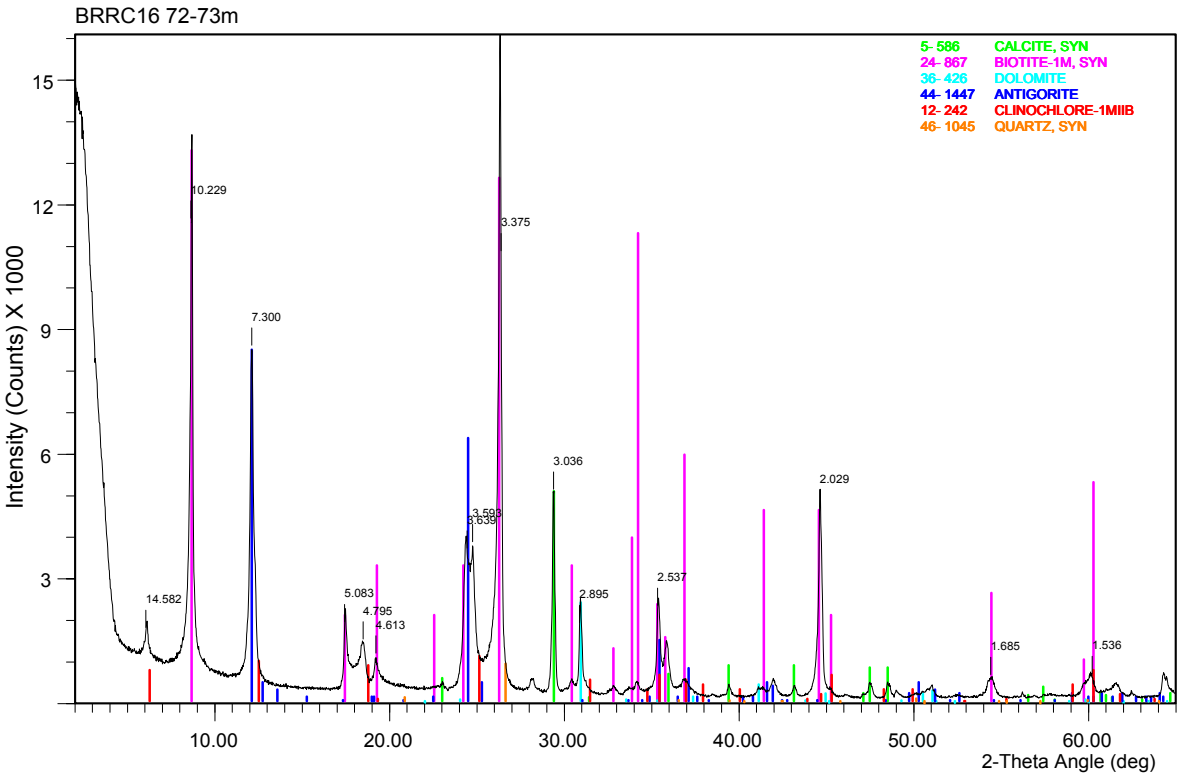
File Name: c:\...\16-40-41.xpt



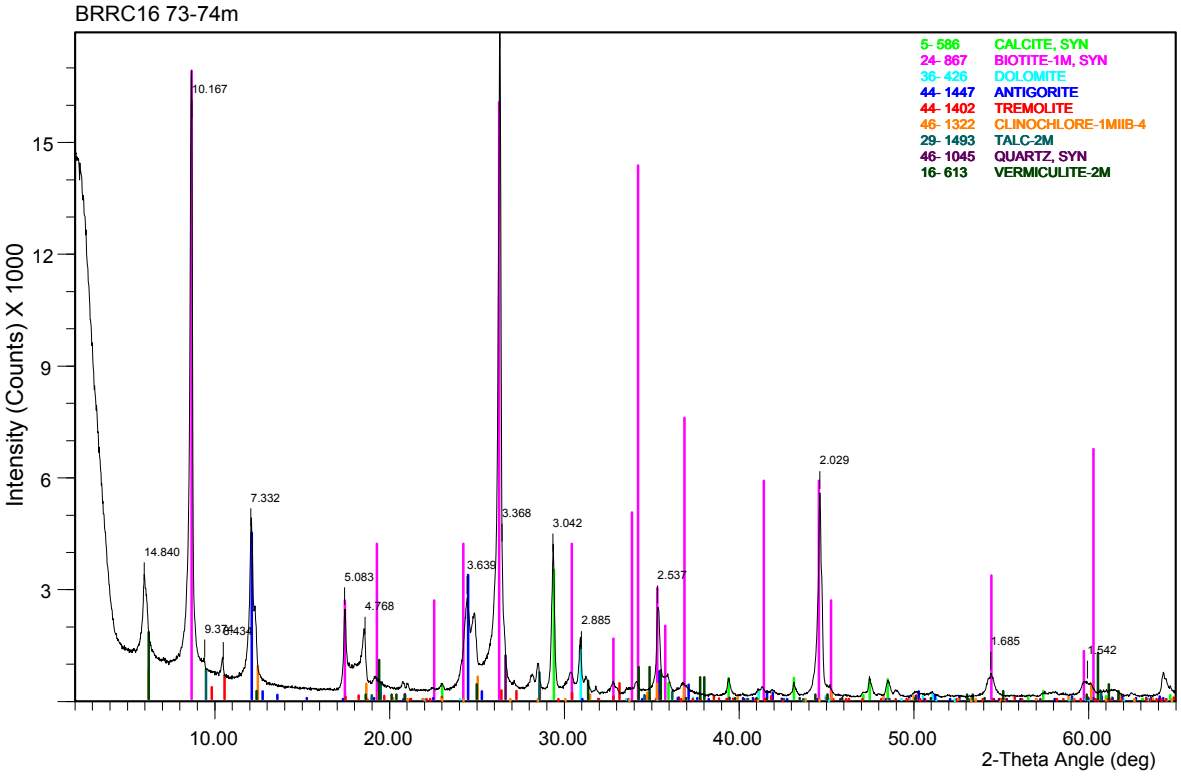
File Name: c:\...\16-41-42.xpt



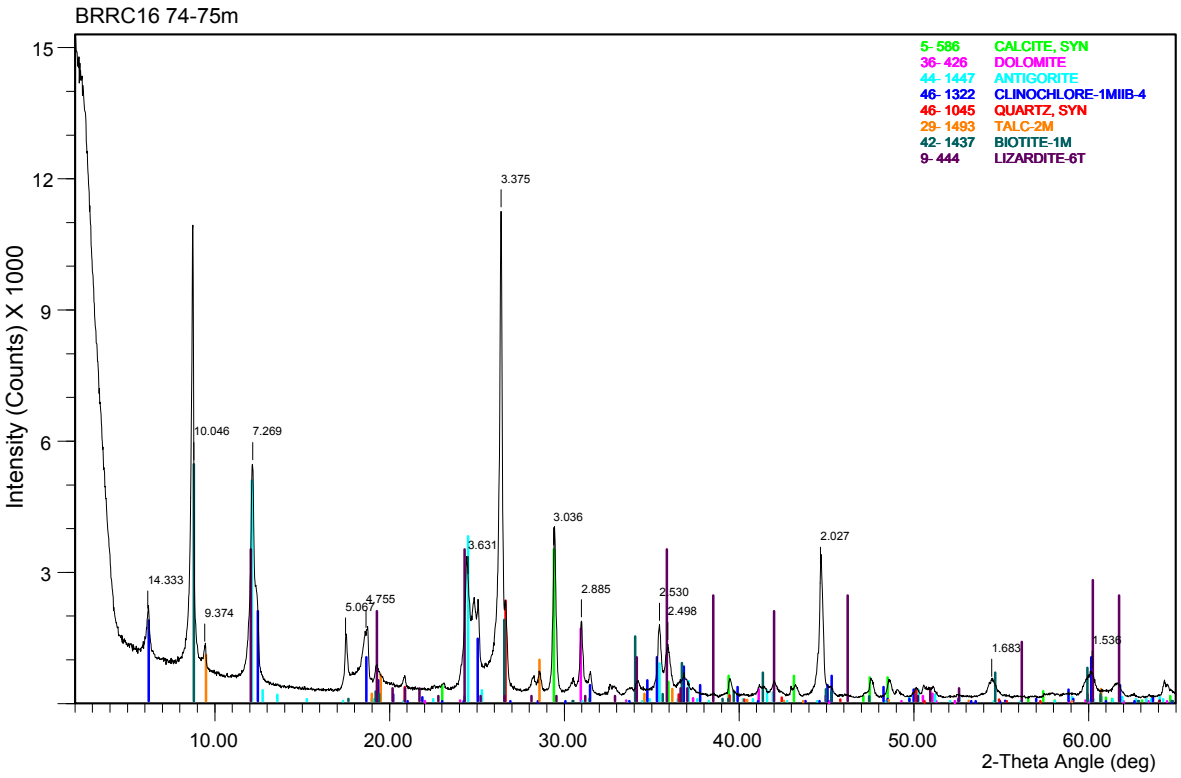
File Name: c:\...\16-42-43.xpt



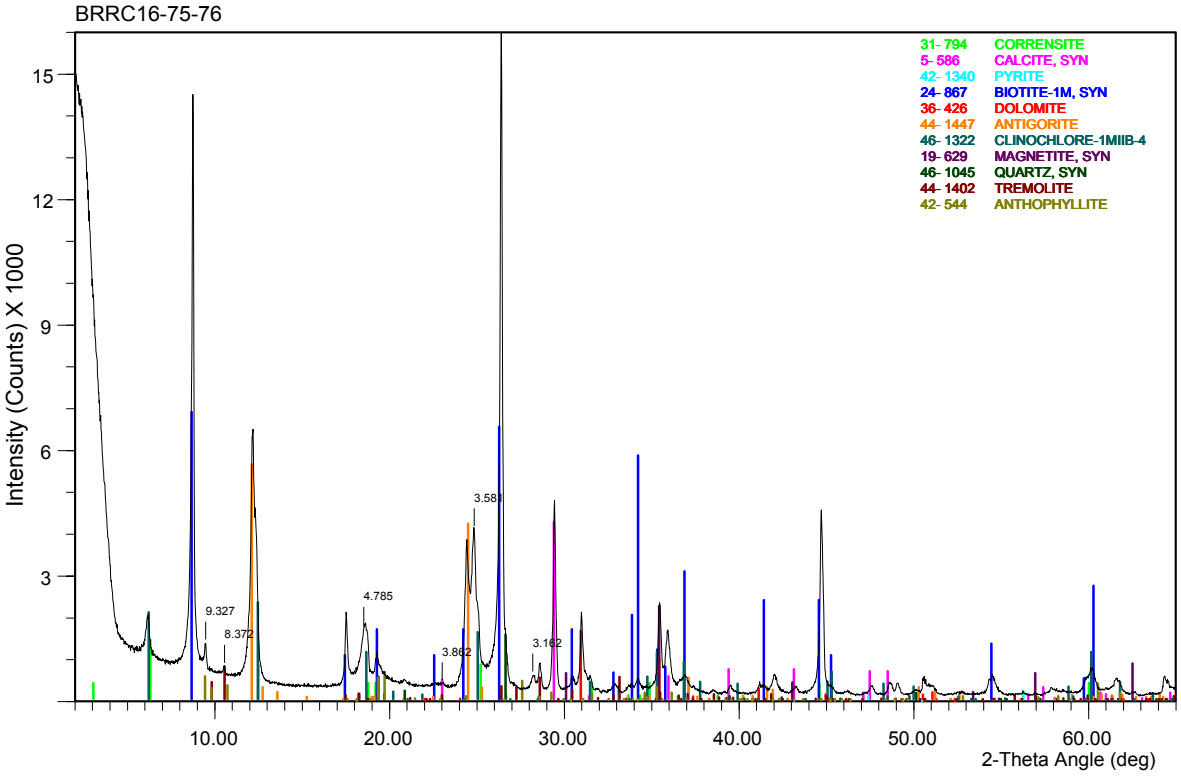
File Name: c:\...\16-72-73.xpt



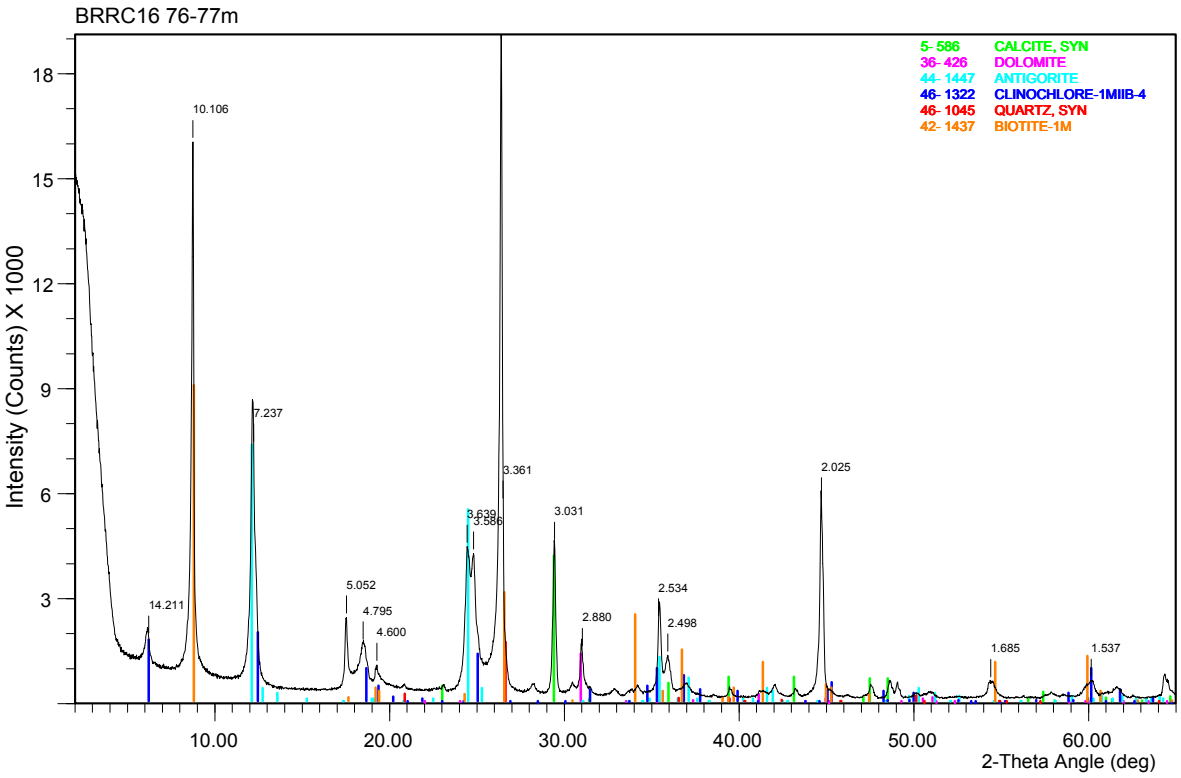
File Name: c:\...\16-73-74.xpt



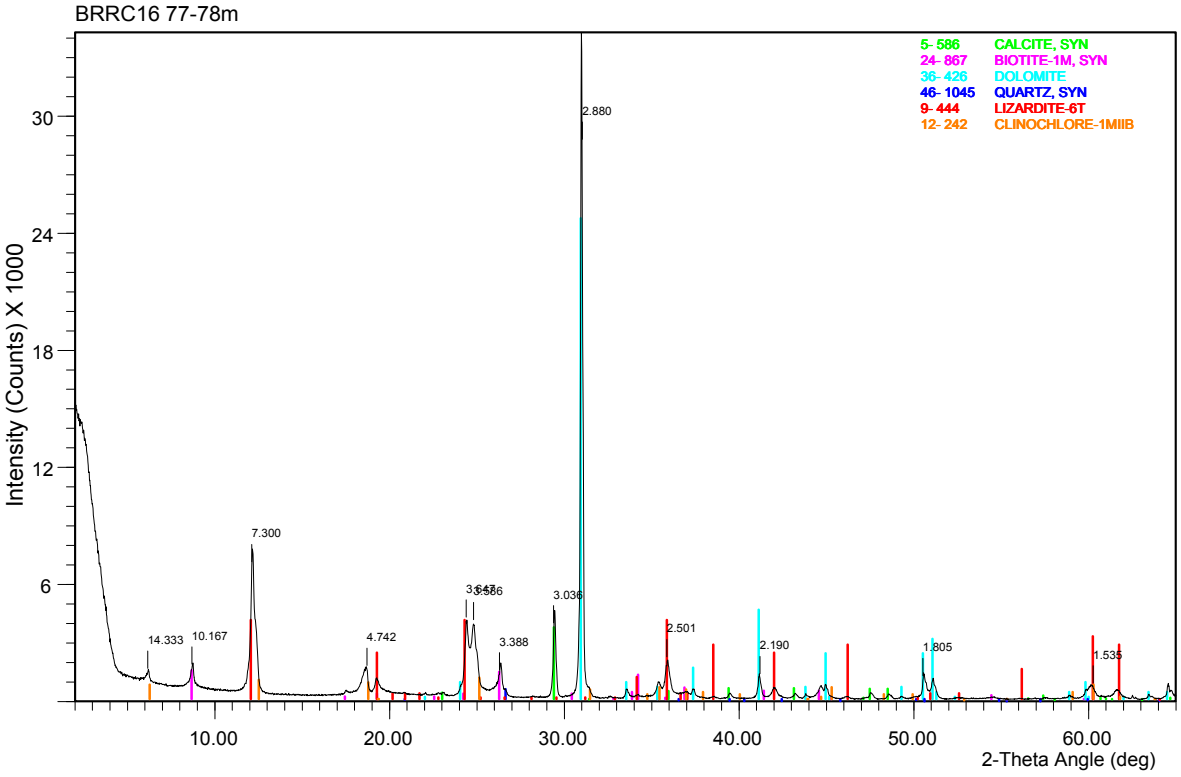
File Name: c:\...\16-74-75.xpt



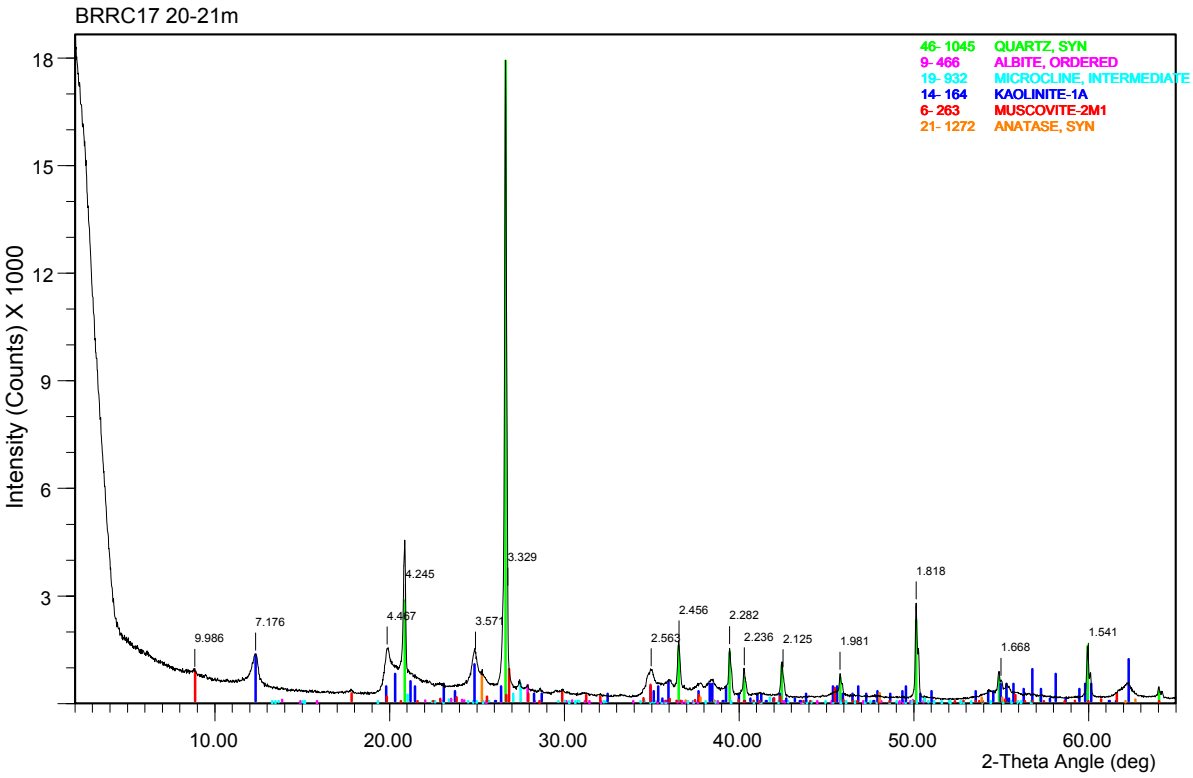
File Name: c:\...\16-75-76.xpt



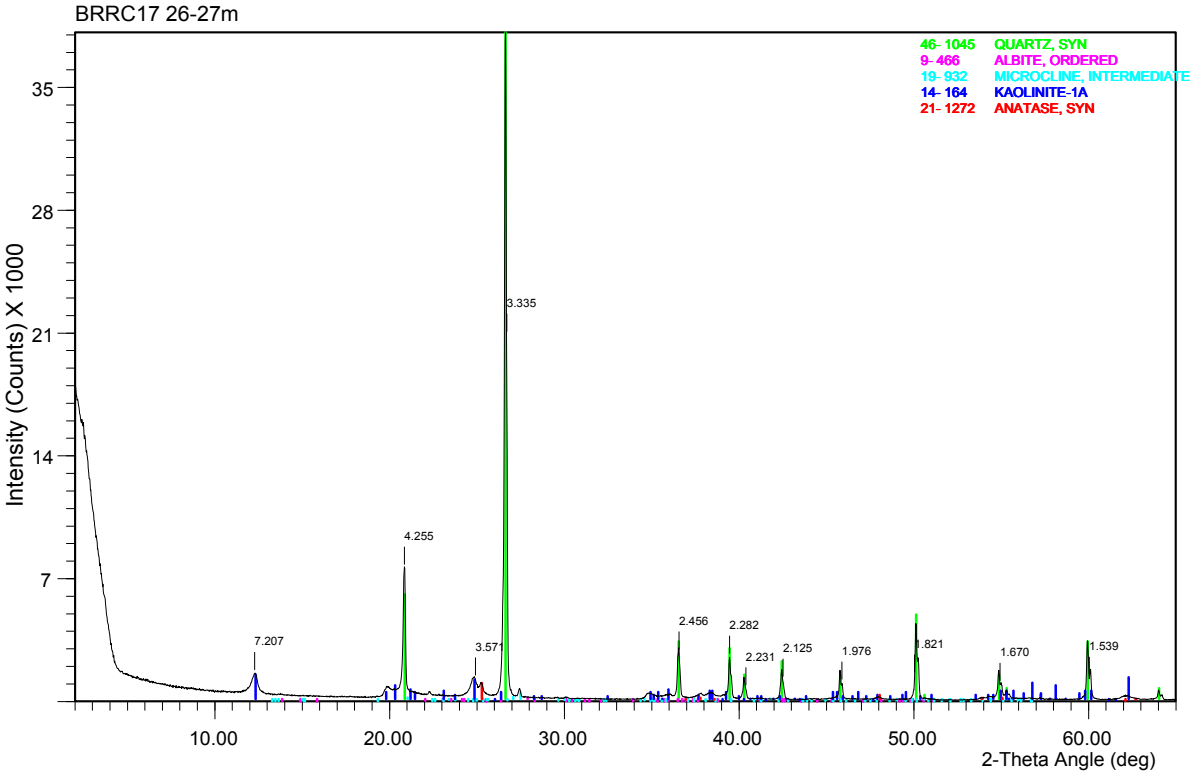
File Name: c:\...\16-76-77.xpt



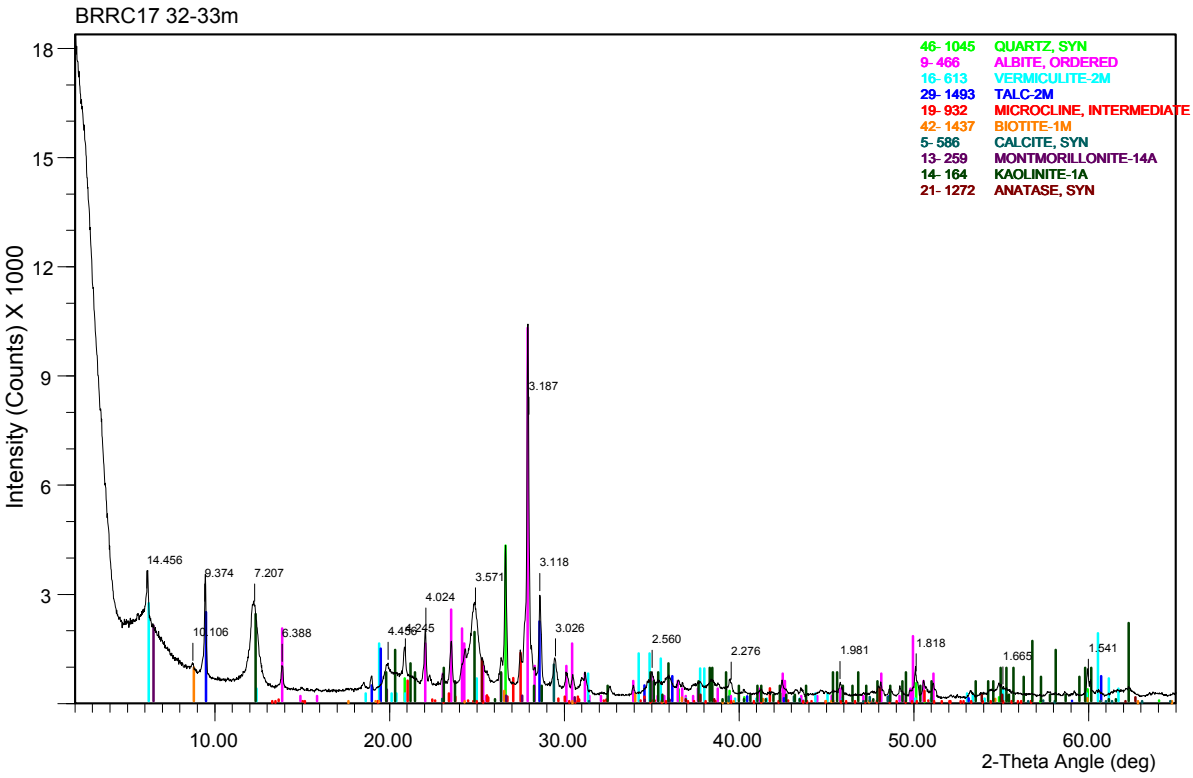
File Name: c:\...\16-77-78.xpt



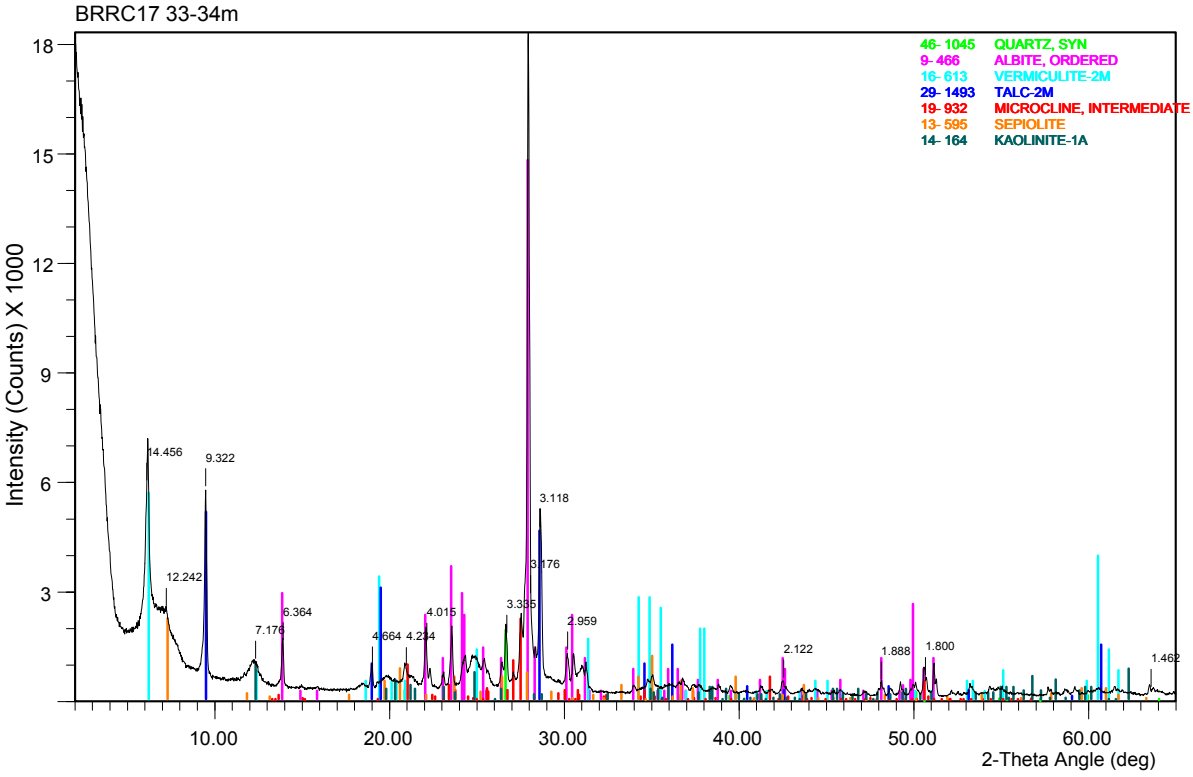
File Name: c:\...\17-20-21.xpt



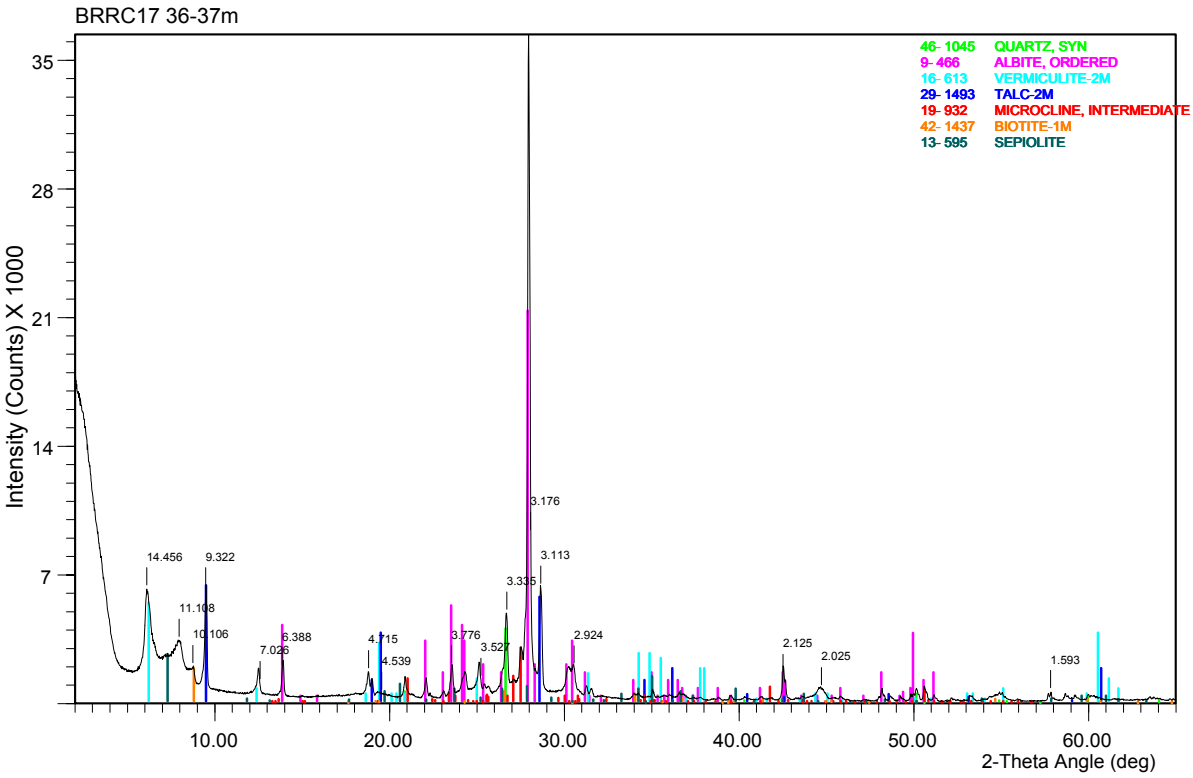
File Name: c:\...\17-26-27.xpt



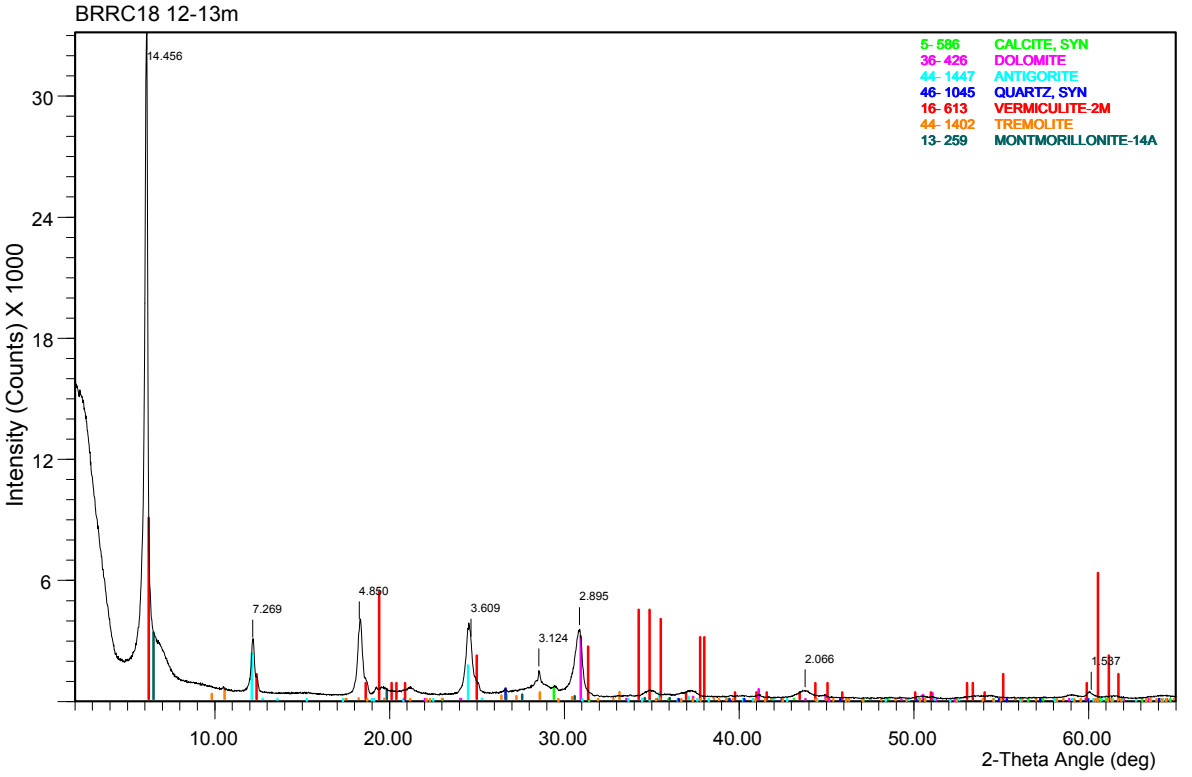
File Name: c:\...\17-32-33.xpt



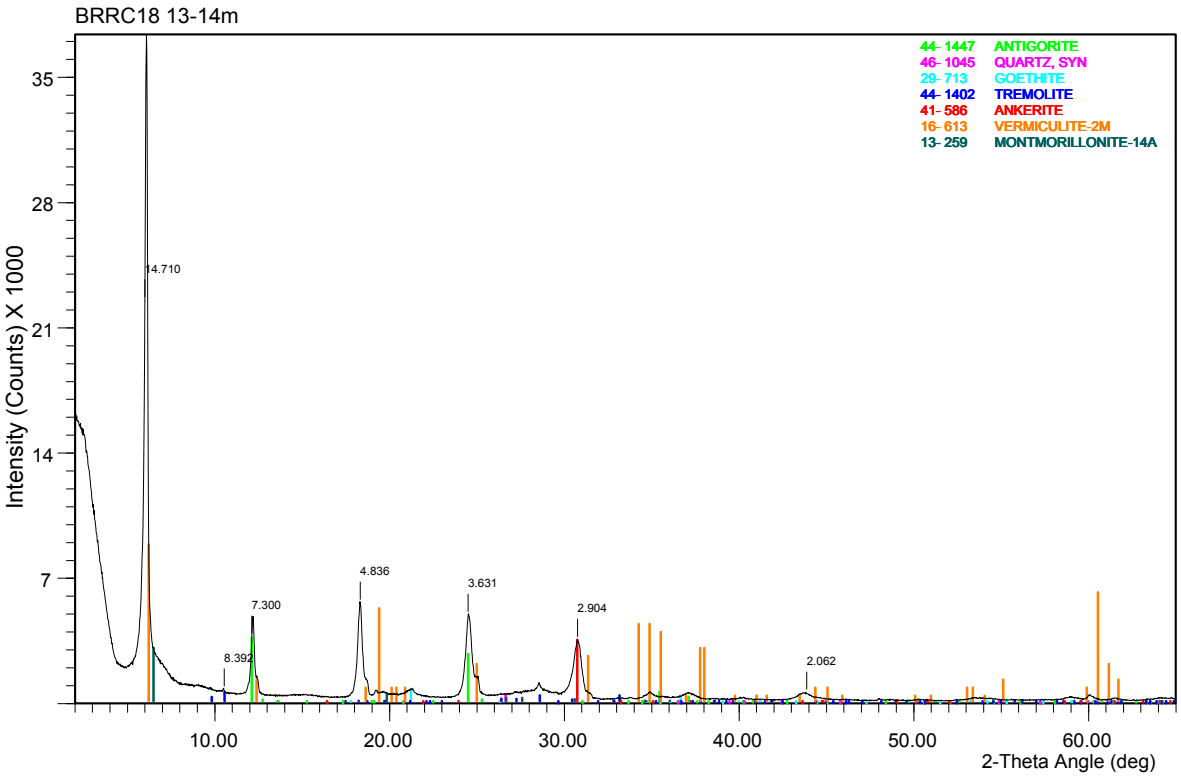
File Name: c:\...\17-33-34.xpt



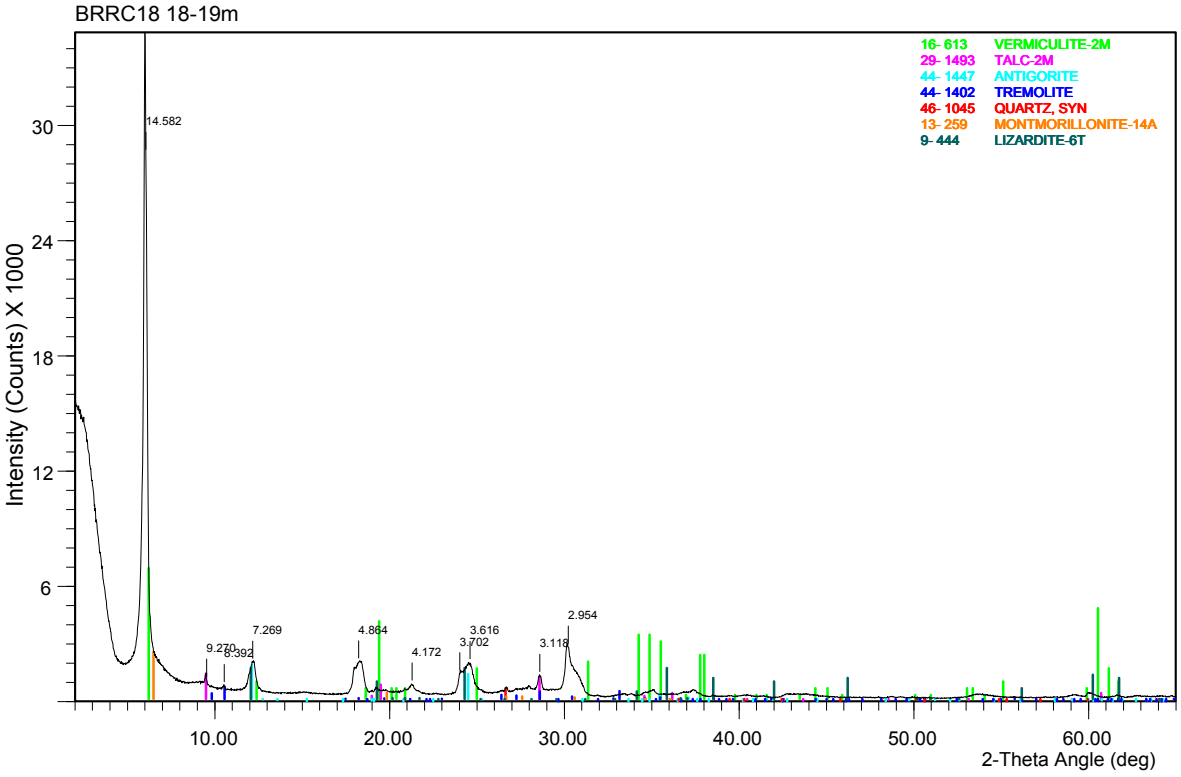
File Name: c:\...\17-37-36.xpt



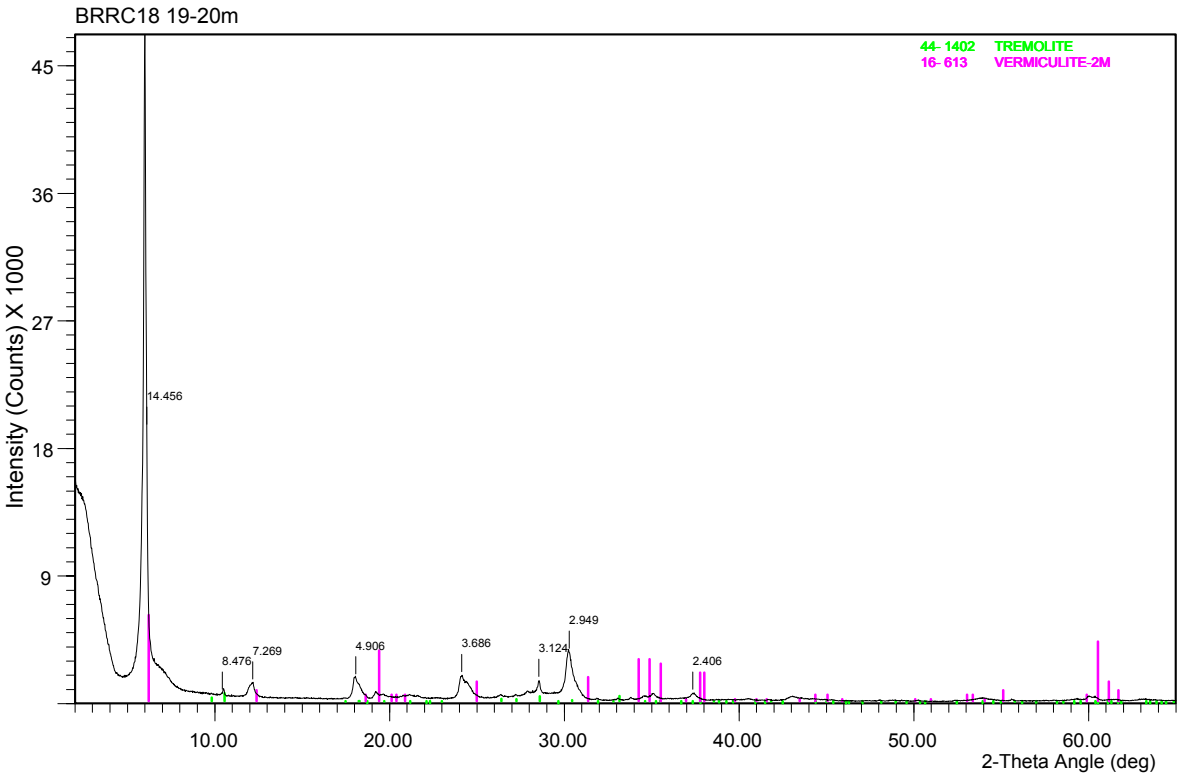
File Name: c:\...\18-12-13.xpt



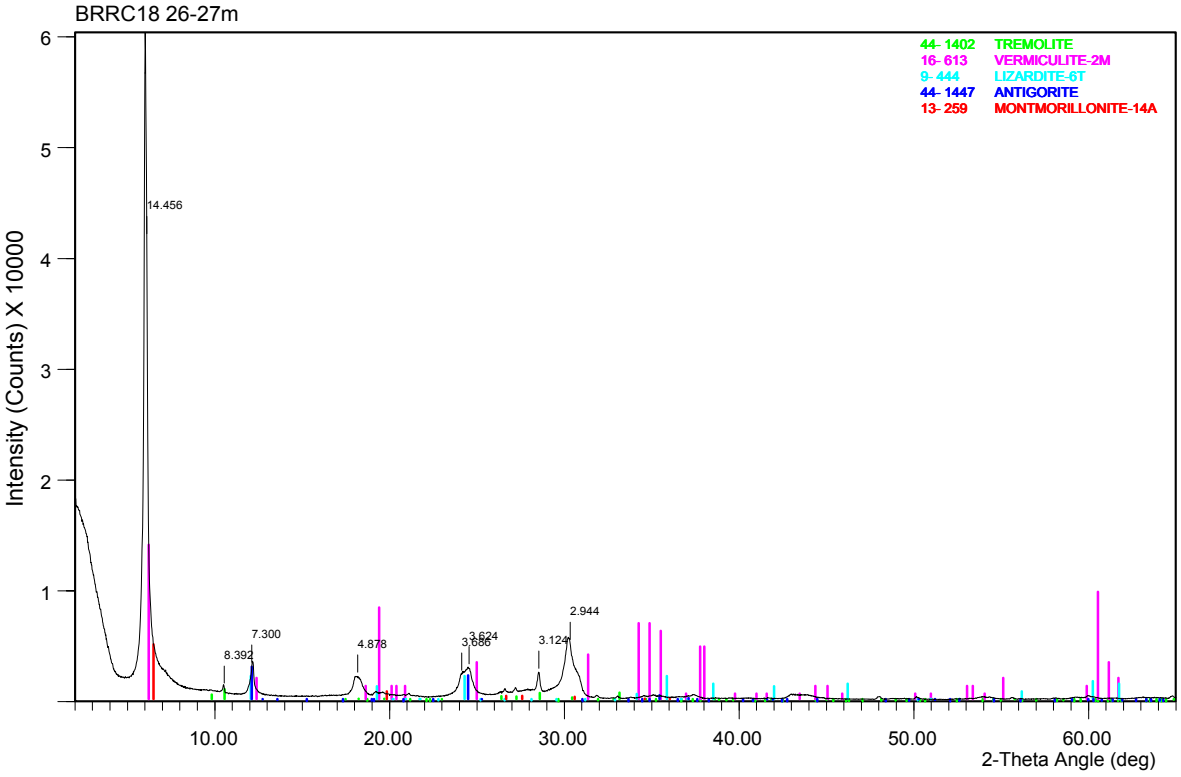
File Name: c:\...\18-13-14.xpt



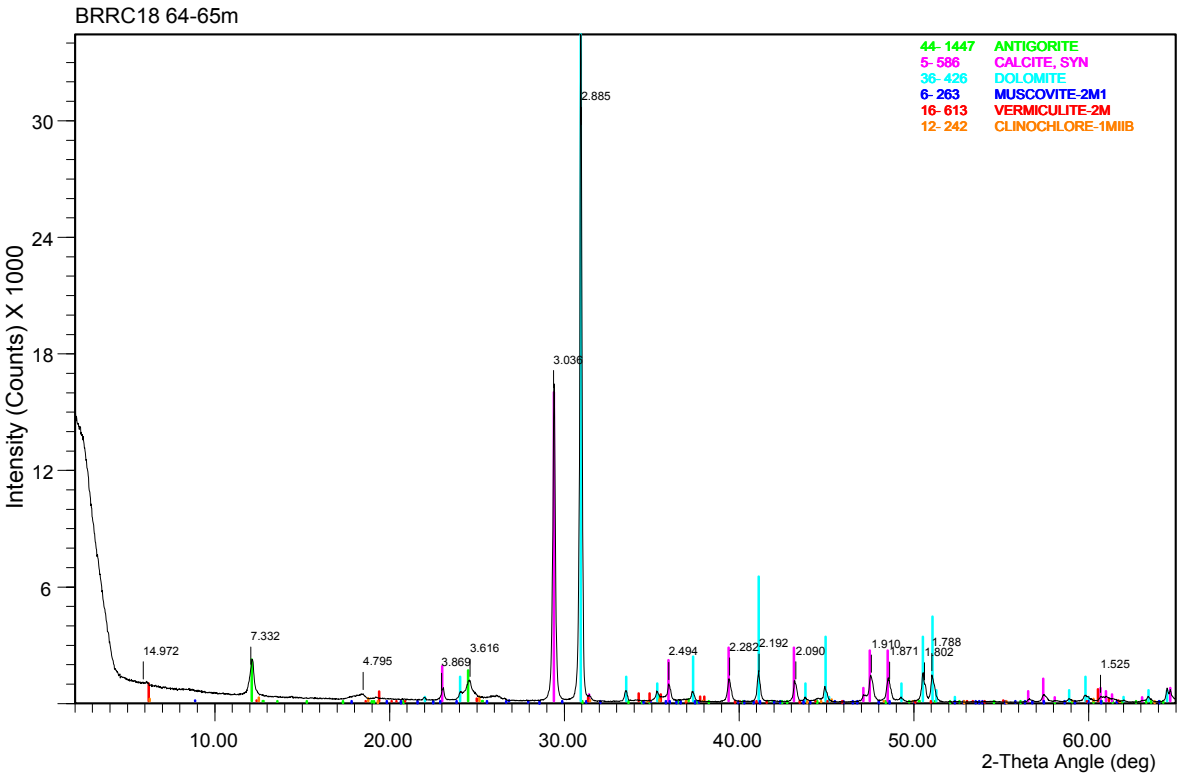
File Name: c:\...\18-18-19.xpt



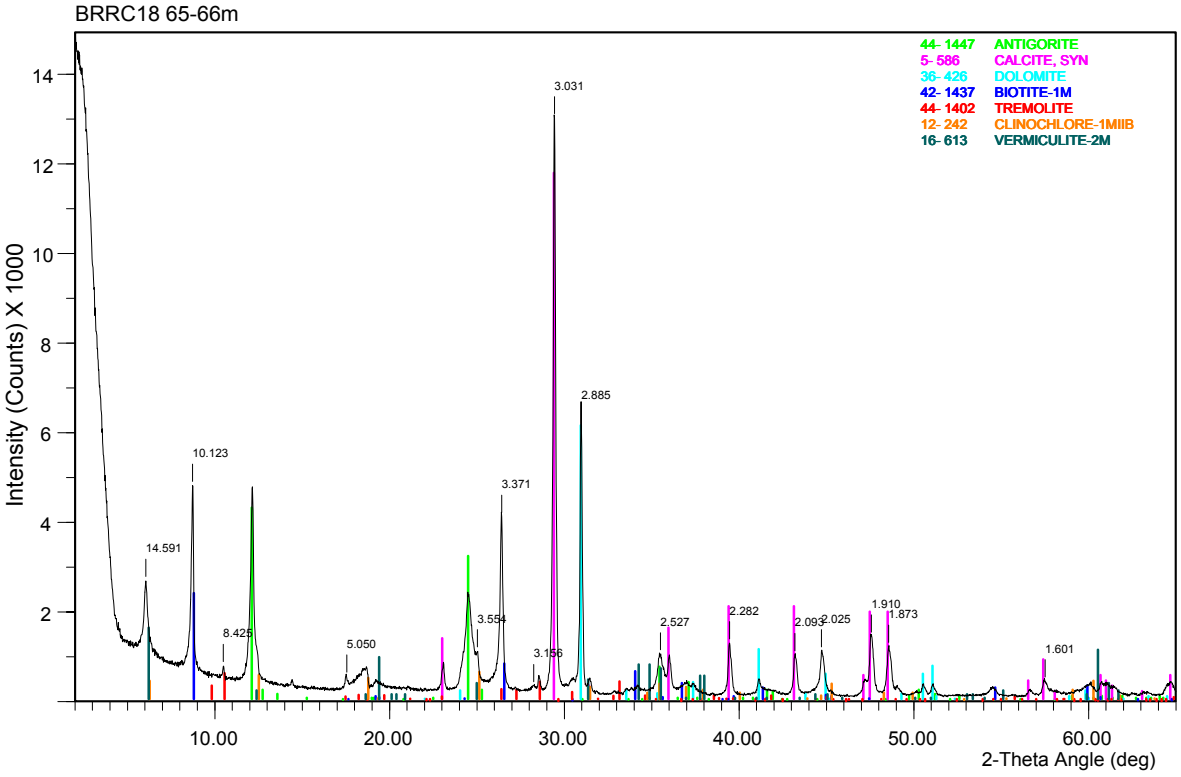
File Name: c:\...\18-19-20.xpt



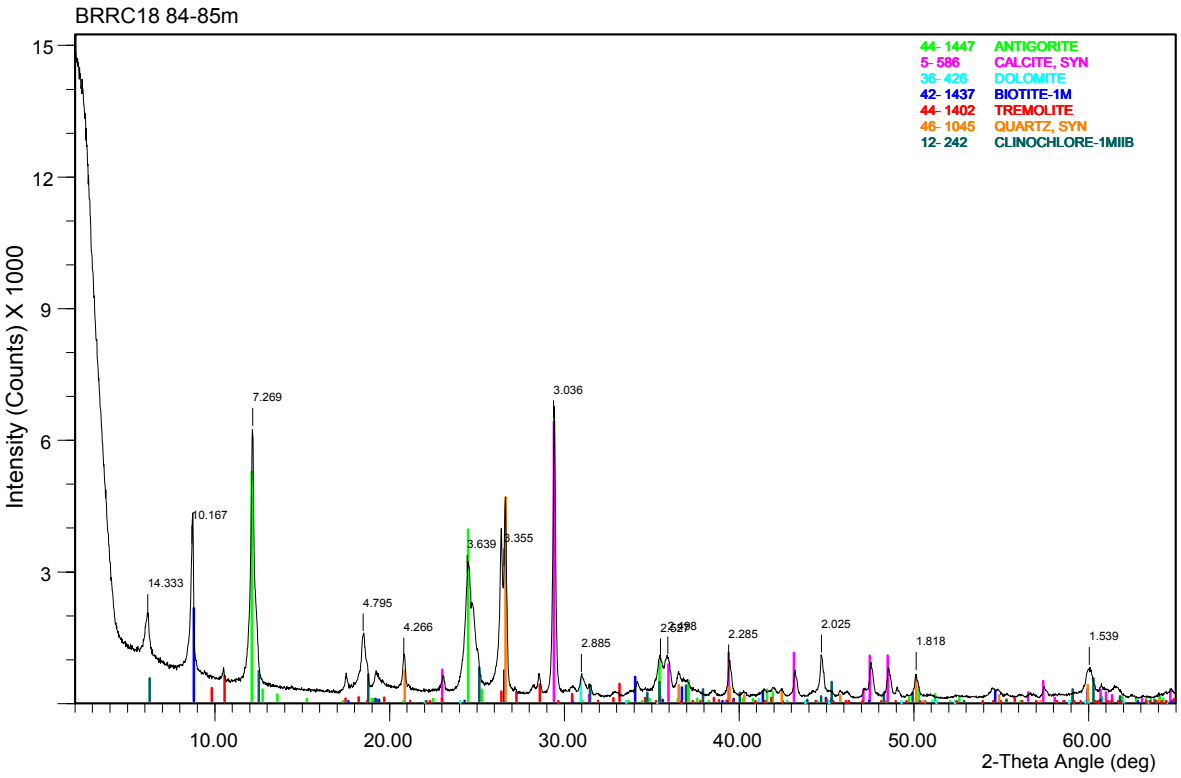
File Name: c:\...\18-26-27.xpt



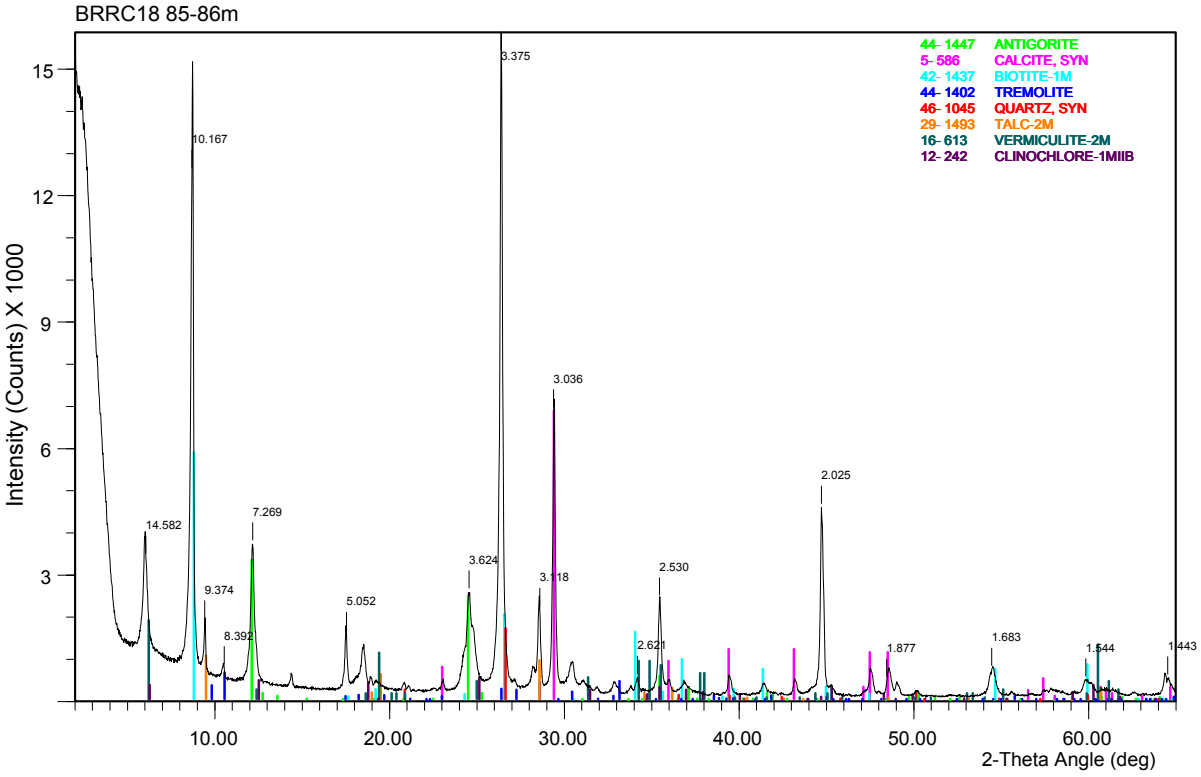
File Name: c:\...\18-64-65.xpt



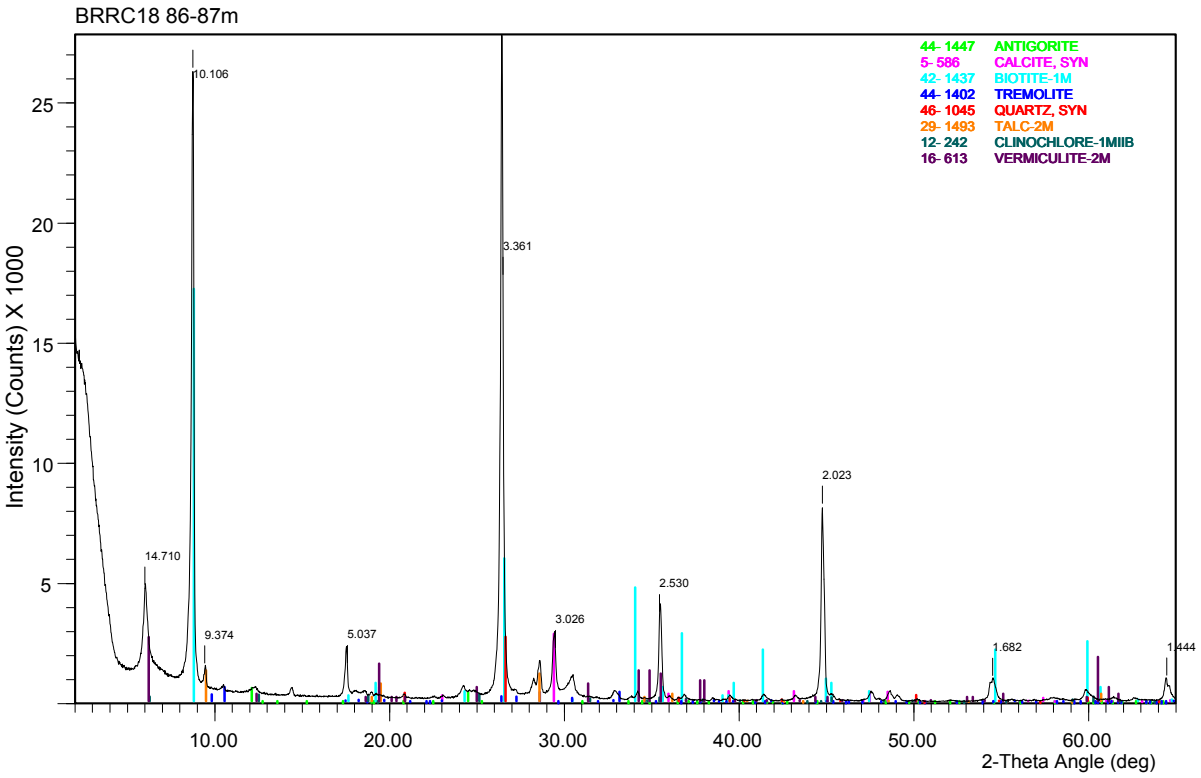
File Name: c:\...\18-65-66.xpt



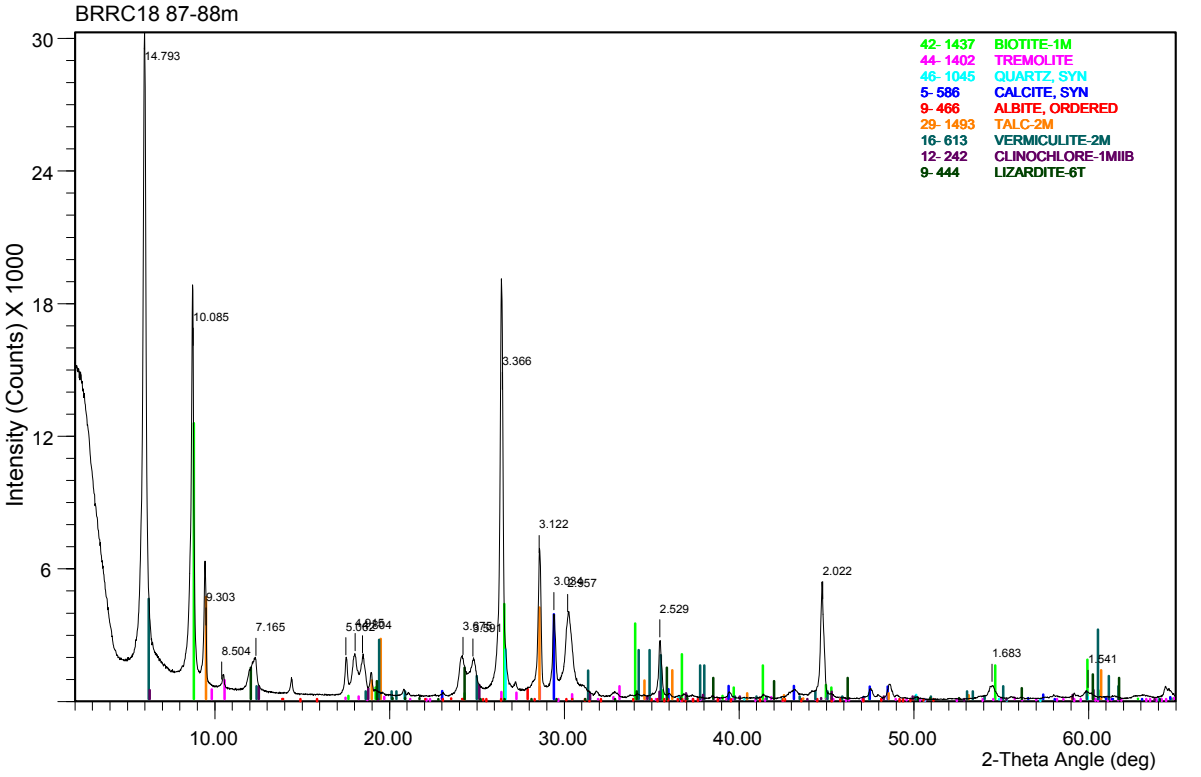
File Name: c:\...\18-84-85.xpt



File Name: c:\...\18-85-86.xpt



File Name: c:\...\18-86-87.xpt



File Name: c:\...\18-87-88.xpt

Appendix 3.12
Statistical summaries

Blue Rose - 2-6 mm lags

	AU	AL	BA	CA	CR
N of cases	20	20	20	20	20
Minimum	0.000	2.360	430.000	0.545	280.000
Maximum	3.000	3.370	750.000	2.950	350.000
Range	3.000	1.010	320.000	2.405	70.000
Median	0.000	2.940	600.000	0.745	320.000
Mean	0.200	2.917	585.500	0.900	318.000
Standard Dev	0.696	0.290	85.807	0.513	17.351
Variance	0.484	0.084	7362.895	0.263	301.053

	CU	FE	K	MG	MN
N of cases	20	20	20	20	20
Minimum	38.000	41.300	0.355	0.180	1200.000
Maximum	49.000	54.500	0.865	0.385	1750.000
Range	11.000	13.200	0.510	0.205	550.000
Median	42.000	50.400	0.597	0.212	1500.000
Mean	42.650	49.955	0.601	0.225	1517.500
Standard Dev	3.249	3.426	0.122	0.045	133.056
Variance	10.555	11.740	0.015	0.002	17703.947

	NA	NB	NI	P	PB
N of cases	20	20	20	20	20
Minimum	0.029	5.000	50.000	1000.000	60.000
Maximum	0.150	10.000	100.000	2500.000	75.000
Range	0.121	5.000	50.000	1500.000	15.000
Median	0.045	10.000	71.000	1250.000	65.000
Mean	0.052	8.250	73.450	1377.500	66.500
Standard Dev	0.025	2.447	12.601	368.666	5.405
Variance	0.001	5.987	158.787	135914.474	29.211

	S	TI	V	ZN	AG
N of cases	20	20	20	20	20
Minimum	250.000	2250.000	470.000	50.000	0.200
Maximum	400.000	3150.000	600.000	83.000	0.300
Range	150.000	900.000	130.000	33.000	0.100
Median	250.000	2675.000	550.000	61.500	0.200
Mean	275.000	2670.000	544.500	61.950	0.230
Standard Dev	38.044	209.887	39.266	6.428	0.047
Variance	1447.368	44052.632	1541.842	41.313	0.002

	AS	BI	CD	CE	CO
N of cases	20	20	20	20	20
Minimum	31.000	2.200	0.200	76.000	18.000
Maximum	71.000	4.800	0.300	175.000	57.000
Range	40.000	2.600	0.100	99.000	39.000
Median	45.750	3.300	0.300	100.000	34.500
Mean	46.625	3.350	0.255	104.200	34.950
Standard Dev	8.579	0.608	0.051	21.028	8.598
Variance	73.602	0.370	0.003	442.168	73.918

	CS	GA	IN	LA	MO
N of cases	20	20	20	20	20
Minimum	0.500	28.500	0.150	42.000	4.800
Maximum	1.000	37.000	0.250	100.000	12.000
Range	0.500	8.500	0.100	58.000	7.200
Median	0.700	32.500	0.200	63.500	7.000
Mean	0.710	32.575	0.205	63.650	7.375
Standard Dev	0.121	2.028	0.022	11.066	2.192
Variance	0.015	4.112	0.001	122.450	4.804

	ND	RB	SB	SE	SM
N of cases	20	20	20	20	20
Minimum	32.000	17.000	1.500	3.500	6.500
Maximum	61.000	36.000	2.500	6.000	12.500
Range	29.000	19.000	1.000	2.500	6.000
Median	47.750	27.250	2.000	5.000	10.000
Mean	48.225	26.925	2.050	4.925	9.950
Standard Dev	7.728	5.016	0.224	0.674	1.613
Variance	59.723	25.165	0.050	0.455	2.603

	SN	SR	TE	TH	TL
N of cases	20	20	20	20	20
Minimum	2.900	38.500	0.700	51.000	0.400
Maximum	3.600	210.000	1.200	71.000	0.500
Range	0.700	171.500	0.500	20.000	0.100
Median	3.300	52.000	1.000	61.500	0.500
Mean	3.235	61.175	1.010	61.150	0.460
Standard Dev	0.187	36.185	0.133	6.839	0.050
Variance	0.035	1309.323	0.018	46.766	0.003

	U	W	Y	HF	DY
N of cases	20	20	20	20	20
Minimum	1.950	2.100	20.500	6.000	3.800
Maximum	3.700	4.800	45.000	7.000	7.500
Range	1.750	2.700	24.500	1.000	3.700
Median	2.200	2.850	28.750	7.000	5.500
Mean	2.328	2.935	30.475	6.700	5.550
Standard Dev	0.360	0.591	6.263	0.470	0.877
Variance	0.129	0.349	39.223	0.221	0.770

	ER	EU	GD	HO	LU
N of cases	20	20	20	20	20
Minimum	1.750	1.550	5.000	0.680	0.290
Maximum	3.400	2.900	11.000	1.300	0.490
Range	1.650	1.350	6.000	0.620	0.200
Median	2.550	2.200	8.000	0.935	0.380
Mean	2.603	2.253	7.975	0.966	0.387
Standard Dev	0.401	0.340	1.446	0.152	0.048
Variance	0.161	0.116	2.091	0.023	0.002

	PR	TB	TM	YB
N of cases	20	20	20	20
Minimum	8.500	0.610	0.300	1.900
Maximum	17.000	1.200	0.500	3.200
Range	8.500	0.590	0.200	1.300
Median	12.500	0.870	0.400	2.500
Mean	12.675	0.879	0.400	2.525
Standard Dev	2.054	0.149	0.049	0.316
Variance	4.218	0.022	0.002	0.100

Blue Rose - >6 mm auger samples

	AU	AL	BA	CA	CR
N of cases	104	104	104	104	104
Minimum	-1.000	1.510	140.000	1.400	9.000
Maximum	8.000	6.590	1250.000	30.100	43.000
Range	9.000	5.080	1110.000	28.700	34.000
Median	2.000	2.455	235.000	20.550	18.000
Mean	2.221	2.672	314.904	19.699	17.952
Standard Dev	1.750	0.824	208.259	6.208	5.559
Variance	3.062	0.679	43371.835	38.542	30.901

	CU	FE	K	MG	MN
N of cases	104	104	104	104	104
Minimum	14.000	0.925	0.375	0.605	110.000
Maximum	100.000	3.840	1.820	3.460	1050.000
Range	86.000	2.915	1.445	2.855	940.000
Median	23.000	2.035	0.682	1.000	240.000
Mean	24.606	2.080	0.737	1.174	265.433
Standard Dev	10.585	0.694	0.245	0.501	122.594
Variance	112.047	0.482	0.060	0.251	15029.180

	NA	NB	NI	P	PB
N of cases	104	104	104	104	104
Minimum	0.115	-5.000	5.000	170.000	-5.000
Maximum	2.420	10.000	32.000	600.000	40.000
Range	2.305	15.000	27.000	430.000	45.000
Median	0.215	-5.000	12.000	260.000	5.000
Mean	0.271	-4.471	13.269	282.404	3.894
Standard Dev	0.238	2.405	5.321	74.204	8.839
Variance	0.057	5.786	28.315	5506.301	78.134

	S	TI	V	ZN	AG
N of cases	104	104	104	104	104
Minimum	150.000	1100.000	26.000	15.000	-0.100
Maximum	800.000	4350.000	86.000	105.000	0.500
Range	650.000	3250.000	60.000	90.000	0.600
Median	300.000	2000.000	50.000	29.000	-0.100
Mean	347.115	2075.000	49.913	32.452	-0.024
Standard Dev	121.645	597.243	11.856	12.674	0.130
Variance	14797.423	356699.029	140.565	160.619	0.017

	AS	BI	CD	CE	CO
N of cases	104	104	104	104	104
Minimum	2.000	-0.100	-0.100	19.500	5.500
Maximum	26.000	2.200	0.300	81.000	32.500
Range	24.000	2.300	0.400	61.500	27.000
Median	5.500	0.200	0.200	34.250	8.500
Mean	6.159	0.233	0.175	37.990	8.769
Standard Dev	2.977	0.347	0.065	13.489	2.836
Variance	8.865	0.120	0.004	181.951	8.043

	CS	GA	IN	LA	MO
N of cases	104	104	104	104	104
Minimum	0.800	3.700	-0.050	15.500	-0.100
Maximum	3.900	16.500	0.050	55.000	2.700
Range	3.100	12.800	0.100	39.500	2.800
Median	1.500	6.500	-0.050	27.000	0.500
Mean	1.642	6.799	-0.048	27.745	0.550
Standard Dev	0.533	2.073	0.014	7.299	0.452
Variance	0.284	4.298	0.000	53.272	0.204

	ND	RB	SB	SE	SM
N of cases	104	104	104	104	104
Minimum	9.000	11.500	-0.500	-0.500	1.900
Maximum	53.000	76.000	1.500	1.000	11.500
Range	44.000	64.500	2.000	1.500	9.600
Median	22.500	26.500	-0.500	-0.500	4.800
Mean	23.183	28.279	-0.471	-0.361	4.908
Standard Dev	6.155	11.128	0.218	0.415	1.270
Variance	37.889	123.829	0.048	0.172	1.613

	SN	SR	TE	TH	TL
N of cases	104	104	104	104	104
Minimum	0.800	90.000	-0.200	3.000	-0.100
Maximum	3.200	650.000	-0.200	12.500	0.600
Range	2.400	560.000	0.000	9.500	0.700
Median	1.500	310.000	-0.200	6.000	0.200
Mean	1.538	316.038	-0.200	6.611	0.235
Standard Dev	0.422	113.268	0.000	1.959	0.109
Variance	0.178	12829.630	0.000	3.836	0.012

	U	W	Y	HF	DY
N of cases	104	104	104	104	104
Minimum	0.440	-0.100	9.500	-1.000	1.100
Maximum	1.750	2.400	34.000	3.000	6.500
Range	1.310	2.500	24.500	4.000	5.400
Median	0.935	0.800	15.000	2.000	2.600
Mean	0.958	0.827	15.928	1.433	2.733
Standard Dev	0.202	0.307	3.761	0.973	0.649
Variance	0.041	0.094	14.148	0.947	0.421

	ER	EU	GD	HO	LU
N of cases	104	104	104	104	104
Minimum	0.500	0.380	1.350	0.190	0.080
Maximum	2.800	2.200	8.500	1.100	0.430
Range	2.300	1.820	7.150	0.910	0.350
Median	1.300	0.975	3.500	0.480	0.200
Mean	1.324	0.984	3.623	0.496	0.203
Standard Dev	0.286	0.237	0.901	0.111	0.041
Variance	0.082	0.056	0.812	0.012	0.002

	PR	TB	TM	YB
N of cases	104	104	104	104
Minimum	2.400	0.160	0.100	0.550
Maximum	13.000	1.000	0.450	2.900
Range	10.600	0.840	0.350	2.350
Median	5.500	0.420	0.200	1.350
Mean	5.823	0.436	0.214	1.377
Standard Dev	1.576	0.104	0.049	0.282
Variance	2.484	0.011	0.002	0.080

Blue Rose - <6 mm auger samples

	AU	AL	BA	CA	CR
N of cases	20	20	20	20	20
Minimum	0.000	3.930	250.000	5.740	23.000
Maximum	2.000	5.230	440.000	11.300	31.000
Range	2.000	1.300	190.000	5.560	8.000
Median	0.000	4.740	270.000	8.760	29.000
Mean	0.300	4.662	284.500	8.851	27.850
Standard Dev	0.571	0.386	44.777	1.490	2.110
Variance	0.326	0.149	2005.000	2.221	4.450

	CU	FE	K	MG	MN
N of cases	20	20	20	20	20
Minimum	21.000	3.350	1.130	0.795	330.000
Maximum	28.000	5.100	1.580	1.290	550.000
Range	7.000	1.750	0.450	0.495	220.000
Median	25.000	3.810	1.340	0.942	380.000
Mean	24.700	3.856	1.327	0.979	388.000
Standard Dev	1.838	0.404	0.117	0.133	51.052
Variance	3.379	0.163	0.014	0.018	2606.316

	NA	NB	NI	P	PB
N of cases	20	20	20	20	20
Minimum	0.370	-5.000	19.000	250.000	10.000
Maximum	0.545	10.000	27.000	370.000	20.000
Range	0.175	15.000	8.000	120.000	10.000
Median	0.395	5.000	20.000	300.000	15.000
Mean	0.408	3.250	21.100	299.500	15.250
Standard Dev	0.042	4.375	2.024	28.557	2.552
Variance	0.002	19.145	4.095	815.526	6.513

	S	TI	V	ZN	AG
N of cases	20	20	20	20	20
Minimum	150.000	3700.000	72.000	41.000	0.200
Maximum	350.000	4850.000	97.000	54.000	0.400
Range	200.000	1150.000	25.000	13.000	0.200
Median	200.000	4025.000	84.000	50.500	0.200
Mean	220.000	4057.500	82.750	48.900	0.220
Standard Dev	49.736	289.407	6.889	4.064	0.062
Variance	2473.684	83756.579	47.461	16.516	0.004

	AS	BI	CD	CE	CO
N of cases	20	20	20	20	20
Minimum	4.500	0.300	-0.100	52.000	11.500
Maximum	8.000	0.700	0.200	105.000	15.500
Range	3.500	0.400	0.300	53.000	4.000
Median	6.500	0.400	0.100	58.000	13.000
Mean	6.250	0.400	0.065	60.650	13.200
Standard Dev	0.939	0.108	0.088	11.672	0.979
Variance	0.882	0.012	0.008	136.239	0.958

	CS	GA	IN	LA	MO
N of cases	20	20	20	20	20
Minimum	2.200	11.500	-0.050	30.000	0.200
Maximum	3.100	15.000	-0.050	64.000	0.800
Range	0.900	3.500	0.000	34.000	0.600
Median	2.550	13.250	-0.050	34.750	0.600
Mean	2.595	13.225	-0.050	36.375	0.585
Standard Dev	0.274	1.175	0.000	7.160	0.160
Variance	0.075	1.381	0.000	51.260	0.026

	ND	RB	SB	SE	SM
N of cases	20	20	20	20	20
Minimum	14.500	43.000	-0.500	0.000	2.400
Maximum	52.000	55.000	-0.500	1.000	8.500
Range	37.500	12.000	0.000	1.000	6.100
Median	30.750	49.000	-0.500	0.500	5.000
Mean	30.825	48.600	-0.500	0.375	5.125
Standard Dev	6.568	3.775	0.000	0.358	1.068
Variance	43.139	14.253	0.000	0.128	1.140

	SN	SR	TE	TH	TL
N of cases	20	20	20	20	20
Minimum	1.200	120.000	0.000	6.500	0.200
Maximum	1.700	210.000	0.000	16.500	0.400
Range	0.500	90.000	0.000	10.000	0.200
Median	1.600	165.000	0.000	11.500	0.300
Mean	1.560	161.500	0.000	11.450	0.335
Standard Dev	0.143	21.770	0.000	1.806	0.059
Variance	0.020	473.947	0.000	3.261	0.003

	U	W	Y	HF	DY
N of cases	20	20	20	20	20
Minimum	0.450	-0.100	16.000	1.000	1.400
Maximum	1.200	0.800	19.500	4.000	3.700
Range	0.750	0.900	3.500	3.000	2.300
Median	1.025	0.600	18.000	3.000	3.100
Mean	0.995	0.565	17.650	3.250	3.030
Standard Dev	0.145	0.211	1.089	0.716	0.455
Variance	0.021	0.045	1.187	0.513	0.207

	ER	EU	GD	HO	LU
N of cases	20	20	20	20	20
Minimum	0.750	0.540	1.850	0.260	0.100
Maximum	1.750	1.700	6.000	0.630	0.230
Range	1.000	1.160	4.150	0.370	0.130
Median	1.650	1.200	4.000	0.580	0.210
Mean	1.562	1.169	3.973	0.554	0.205
Standard Dev	0.221	0.207	0.721	0.080	0.028
Variance	0.049	0.043	0.519	0.006	0.001

	PR	TB	TM	YB
N of cases	20	20	20	20
Minimum	3.200	0.210	0.100	0.750
Maximum	11.500	0.620	0.250	1.700
Range	8.300	0.410	0.150	0.950
Median	6.500	0.450	0.200	1.575
Mean	6.760	0.444	0.212	1.530
Standard Dev	1.465	0.073	0.036	0.206
Variance	2.147	0.005	0.001	0.042

Blue Rose - <2 mm soils

	AU	AL	BA	CA	CR
N of cases	46	46	46	46	46
Minimum	-1.000	4.330	240.000	0.695	27.000
Maximum	21.500	10.400	300.000	7.370	55.000
Range	22.500	6.070	60.000	6.675	28.000
Median	1.000	5.765	280.000	3.840	36.500
Mean	1.880	5.868	275.652	3.618	37.413
Standard Dev	4.117	1.106	17.211	1.573	6.134
Variance	16.946	1.223	296.232	2.475	37.626

	CU	FE	K	MG	MN
N of cases	46	46	46	46	46
Minimum	22.000	3.430	1.260	0.770	370.000
Maximum	280.000	4.600	2.160	1.730	750.000
Range	258.000	1.170	0.900	0.960	380.000
Median	31.000	4.005	1.565	1.080	445.000
Mean	49.717	4.002	1.582	1.123	494.783
Standard Dev	51.829	0.246	0.184	0.222	108.561
Variance	2686.252	0.060	0.034	0.049	11785.507

	NA	NB	NI	P	PB
N of cases	46	46	46	46	46
Minimum	0.410	-5.000	19.000	250.000	-5.000
Maximum	0.765	90.000	33.000	390.000	20.000
Range	0.355	95.000	14.000	140.000	25.000
Median	0.480	-5.000	23.000	290.000	10.000
Mean	0.500	2.391	24.239	303.261	11.848
Standard Dev	0.074	14.634	3.348	40.609	5.308
Variance	0.005	214.155	11.208	1649.130	28.176

	S	TI	V	ZN	AG
N of cases	46	46	46	46	46
Minimum	200.000	4400.000	68.000	50.000	0.100
Maximum	350.000	5700.000	96.000	82.000	1.800
Range	150.000	1300.000	28.000	32.000	1.700
Median	250.000	5050.000	82.500	61.000	0.200
Mean	238.043	5038.043	81.935	61.457	0.237
Standard Dev	31.946	302.064	6.042	6.911	0.240
Variance	1020.531	91242.754	36.507	47.765	0.057

	AS	BI	CD	CE	CO
N of cases	46	46	46	46	46
Minimum	2.500	0.300	-0.100	56.000	12.000
Maximum	8.500	0.500	0.200	120.000	21.500
Range	6.000	0.200	0.300	64.000	9.500
Median	5.000	0.300	-0.100	67.500	13.500
Mean	5.261	0.357	0.009	71.609	14.424
Standard Dev	1.201	0.072	0.119	13.841	2.338
Variance	1.442	0.005	0.014	191.577	5.466

	CS	GA	IN	LA	MO
N of cases	46	46	46	46	46
Minimum	2.100	11.500	-0.050	29.500	0.100
Maximum	5.500	22.000	0.100	62.000	0.900
Range	3.400	10.500	0.150	32.500	0.800
Median	3.150	15.500	0.050	36.000	0.400
Mean	3.400	15.630	0.016	38.152	0.472
Standard Dev	0.829	2.184	0.050	6.242	0.170
Variance	0.687	4.771	0.002	38.965	0.029

	ND	RB	SB	SE	SM
N of cases	46	46	46	46	46
Minimum	27.000	37.000	-0.500	-0.500	5.000
Maximum	41.500	78.000	0.500	-0.500	8.500
Range	14.500	41.000	1.000	0.000	3.500
Median	31.500	61.000	-0.500	-0.500	6.250
Mean	32.576	59.130	-0.413	-0.500	6.533
Standard Dev	3.911	10.635	0.285	0.000	0.884
Variance	15.300	113.094	0.081	0.000	0.782

	SN	SR	TE	TH	TL
N of cases	46	46	46	46	46
Minimum	1.300	69.000	-0.200	9.000	0.300
Maximum	18.500	150.000	-0.200	18.000	0.600
Range	17.200	81.000	0.000	9.000	0.300
Median	2.200	110.000	-0.200	13.000	0.400
Mean	2.548	110.109	-0.200	13.293	0.402
Standard Dev	2.433	17.066	0.000	2.433	0.071
Variance	5.920	291.255	0.000	5.918	0.005

	U	W	Y	HF	DY
N of cases	46	46	46	46	46
Minimum	0.950	0.200	15.000	2.000	2.700
Maximum	1.650	3.000	28.500	4.000	4.900
Range	0.700	2.800	13.500	2.000	2.200
Median	1.175	0.800	19.500	3.000	3.350
Mean	1.198	0.893	20.728	2.978	3.493
Standard Dev	0.161	0.628	3.306	0.394	0.520
Variance	0.026	0.394	10.930	0.155	0.270

	ER	EU	GD	HO	LU
N of cases	46	46	46	46	46
Minimum	0.850	1.050	3.800	0.480	0.210
Maximum	2.500	1.750	6.000	0.870	0.400
Range	1.650	0.700	2.200	0.390	0.190
Median	1.600	1.250	4.400	0.585	0.265
Mean	1.576	1.301	4.611	0.616	0.279
Standard Dev	0.411	0.167	0.626	0.092	0.048
Variance	0.169	0.028	0.392	0.008	0.002

	PR	TB	TM	YB
N of cases	46	46	46	46
Minimum	7.000	0.410	0.200	1.450
Maximum	11.000	0.760	0.450	2.500
Range	4.000	0.350	0.250	1.050
Median	8.000	0.510	0.250	1.750
Mean	8.435	0.532	0.284	1.810
Standard Dev	1.036	0.082	0.052	0.229
Variance	1.073	0.007	0.003	0.052

Blue Rose - >6 mm augered samples

n=104

Spearman Rank Correlation	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Ag	1
Al	0.34	1
As	0.09	0.34	1
Au	0.00	-0.08	0.07	1
Ba	0.11	0.06	0.07	-0.10	1
Bi	0.14	0.45	0.60	0.08	-0.09	1
Ca	-0.22	-0.75	-0.40	0.08	0.04	-0.60	1
Cd	-0.07	-0.20	-0.04	0.15	0.14	-0.05	0.38	1
Ce	0.14	0.67	0.39	0.17	-0.12	0.69	-0.78	-0.18	1
Co	0.25	0.34	0.43	-0.04	0.15	0.22	-0.37	-0.12	0.31	1
Cr	0.26	0.74	0.53	0.01	0.07	0.62	-0.71	-0.15	0.70	0.42	1
Cs	0.22	0.89	0.35	0.00	0.00	0.51	-0.65	-0.17	0.68	0.19	0.72	1
Cu	0.13	0.30	0.52	-0.31	0.07	0.07	-0.24	-0.15	0.08	0.48	0.26	0.21	1
Dy	0.19	0.47	0.19	-0.05	0.24	0.13	-0.16	0.23	0.19	0.11	0.44	0.45	0.15	1
Er	0.21	0.49	0.11	-0.03	0.24	0.13	-0.16	0.23	0.19	0.07	0.45	0.47	0.07	0.97	1
Eu	0.18	0.46	0.27	0.02	0.35	0.26	-0.23	0.19	0.32	0.19	0.50	0.45	0.13	0.92	0.86	1
Fe	0.14	0.68	0.72	-0.03	0.03	0.71	-0.77	-0.20	0.74	0.51	0.85	0.66	0.42	0.30	0.26	0.38	1
Ga	0.30	0.97	0.42	-0.07	0.03	0.52	-0.80	-0.21	0.72	0.37	0.80	0.87	0.31	0.43	0.45	0.43	0.76	1
Gd	0.13	0.50	0.28	0.04	0.14	0.32	-0.28	0.20	0.42	0.15	0.52	0.51	0.13	0.93	0.88	0.94	0.43	0.48	1
Hf	0.14	0.75	0.49	-0.04	-0.01	0.60	-0.68	-0.15	0.77	0.32	0.70	0.73	0.30	0.35	0.35	0.39	0.76	0.79	0.46	1
Ho	0.17	0.46	0.12	-0.02	0.23	0.12	-0.15	0.24	0.20	0.05	0.44	0.46	0.06	0.98	0.99	0.88	0.25	0.43	0.90	0.34	1
In	0.26	0.24	0.04	-0.23	0.06	0.09	-0.23	-0.21	0.21	0.23	0.24	0.24	0.23	0.22	0.22	0.21	0.23	0.24	0.21	0.25	0.22	1
K	0.23	0.89	0.44	-0.07	0.08	0.59	-0.80	-0.23	0.78	0.48	0.81	0.85	0.33	0.36	0.37	0.41	0.80	0.90	0.46	0.79	0.36	0.24	1
La	0.17	0.64	0.36	0.10	0.04	0.58	-0.61	0.03	0.77	0.24	0.72	0.64	0.07	0.65	0.61	0.76	0.66	0.66	0.84	0.64	0.64	0.20	0.68	1
Lu	0.21	0.63	0.19	-0.01	0.22	0.24	-0.32	0.17	0.36	0.18	0.57	0.60	0.13	0.91	0.94	0.84	0.39	0.60	0.86	0.47	0.93	0.23	0.53	0.69	1
Mg	0.15	-0.12	-0.24	-0.10	0.27	-0.15	0.17	0.20	-0.28	0.03	-0.22	-0.11	-0.01	0.11	0.11	0.06	-0.27	-0.17	0.00	-0.21	0.10	0.13	-0.12	-0.13	0.09	1
Mn	0.21	0.62	0.51	-0.01	0.02	0.61	-0.84	-0.20	0.76	0.50	0.73	0.57	0.32	0.21	0.22	0.27	0.80	0.68	0.33	0.62	0.20	0.23	0.72	0.62	0.38	-0.16	1
Mo	0.37	0.37	0.51	-0.11	-0.04	0.45	-0.53	-0.17	0.29	0.24	0.43	0.25	0.43	0.15	0.09	0.23	0.49	0.40	0.22	0.35	0.08	0.10	0.32	0.35	0.15	-0.15	0.48	1
Na	0.26	0.69	0.37	0.01	0.02	0.57	-0.87	-0.29	0.73	0.44	0.64	0.53	0.27	0.08	0.09	0.18	0.69	0.73	0.20	0.63	0.07	0.21	0.75	0.53	0.27	-0.04	0.80	0.48	1
Nb	0.40	0.36	0.05	-0.12	-0.01	0.06	-0.33	-0.28	0.30	0.25	0.23	0.24	0.26	0.18	0.19	0.18	0.21	0.36	0.17	0.31	0.17	0.63	0.22	0.22	0.25	0.04	0.29	0.25	0.35	1
Nd	0.15	0.59	0.39	0.00	0.10	0.42	-0.43	0.09	0.56	0.24	0.61	0.59	0.23	0.83	0.76	0.89	0.56	0.59	0.95	0.57	0.78	0.22	0.59	0.90	0.79	-0.07	0.44	0.31	0.34	0.21	1
Ni	0.11	0.62	0.60	0.02	-0.11	0.75	-0.80	-0.18	0.82	0.47	0.74	0.64	0.28	0.18	0.18	0.28	0.86	0.68	0.37	0.69	0.18	0.22	0.78	0.66	0.35	-0.25	0.86	0.44	0.74	0.20	0.49	1
P	0.08	0.46	0.51	-0.13	0.13	0.49	-0.60	-0.12	0.56	0.50	0.50	0.40	0.44	0.13	0.12	0.19	0.65	0.49	0.22	0.50	0.11	0.18	0.59	0.43	0.25	0.02	0.73	0.41	0.63	0.16	0.33	0.66	1
Pb	-0.11	0.45	0.51	-0.07	-0.14	0.51	-0.56	-0.21	0.58	0.36	0.59	0.41	0.43	0.16	0.11	0.25	0.67	0.53	0.30	0.56	0.11	0.14	0.56	0.47	0.26	-0.29	0.55	0.36	0.50	0.23	0.43	0.66	0.45	1
Pr	0.15	0.62	0.43	0.04	0.08	0.49	-0.50	0.07	0.64	0.25	0.65	0.64	0.23	0.78	0.71	0.85	0.62	0.63	0.92	0.62	0.73	0.22	0.64	0.93	0.75	-0.10	0.50	0.34	0.41	0.21	0.99	0.57	0.39	0.47	1
Rb	0.38	0.69	0.35	-0.32	0.30	0.13	-0.48	-0.16	0.18	0.55	0.51	0.55	0.54	0.45	0.42	0.42	0.50	0.65	0.35	0.40	0.39	0.24	0.65	0.34	0.47	0.14	0.40	0.35	0.41	0.23	0.45	0.32	0.38	0.27	0.43	1
S	0.06	-0.26	-0.21	0.01	0.63	-0.31	0.34	0.15	-0.38	0.14	-0.30	-0.31	-0.08	0.01	0.02	0.07	-0.35	-0.32	-0.11	-0.39	0.01	0.00	-0.22	-0.23	-0.03	0.39	-0.28	-0.26	-0.20	-0.21	-0.16	-0.39	-0.05	-0.40	-0.20	0.09	1
Sb	-0.09	-0.01	0.23	0.19	-0.10	0.23	-0.03	0.17	0.18	0.15	0.11	0.05	0.09	0.07	0.01	0.13	0.19	-0.01	0.18	0.10	0.03	-0.02	0.05	0.16	0.03	-0.10	0.06	0.12	0.00	-0.03	0.17	0.19	0.14	0.19	0.18	-0.11	-0.10	1
Se	0.02	-0.18	-0.23	-0.12	0.18	-0.08	0.10	0.12	-0.13	0.21	-0.15	-0.33	-0.19	-0.22	-0.22	-0.16	-0.15	-0.21	-0.25	-0.24	-0.23	-0.05	-0.11	-0.19	-0.24	0.15	-0.08	-0.08	-0.01	-0.08	-0.25	-0.14	0.07	-0.18	-0.27	-0.02	0.36	0.17	1
Sm	0.13	0.55	0.33	0.07	0.16	0.42	-0.41	0.12	0.57	0.20	0.59	0.56	0.13	0.84	0.78	0.92	0.52	0.55	0.96	0.55	0.80	0.20	0.55	0.92	0.80	-0.05	0.43	0.26	0.33	0.19	0.98	0.48	0.29	0.38	0.97	0.37	-0.11	0.17	-0.23	1
Sn	0.13	0.78	0.58	-0.08	-0.08	0.61	-0.73	-0.22	0.72	0.28	0.71	0.78	0.40	0.33	0.34	0.34	0.77	0.81	0.44	0.81	0.33	0.24	0.84	0.60	0.49	-0.23	0.67	0.38	0.66	0.24	0.56	0.75	0.54	0.58	0.62	0.45	-0.41	0.08	-0.29	0.51	1
Sr	-0.13	-0.68	-0.43	0.22	0.23	-0.51	0.78	0.32	-0.62	-0.20	-0.66	-0.64	-0.38	-0.29	-0.27	-0.30	-0.72	-0.71	-0.40	-0.60	-0.27	-0.22	-0.68	-0.58	-0.35	0.41	-0.68	-0.56	-0.61	-0.28	-0.51	-0.72	-0.51	-0.55	-0.55	-0.43	0.59	-0.08	0.23	-0.44	-0.73	1
Tb	0.12	0.53	0.30	0.03	0.10	0.33	-0.30	0.17	0.43	0.09	0.55	0.57	0.15	0.93	0.89	0.90	0.45	0.52	0.98	0.48	0.91	0.22	0.48	0.82	0.88	-0.01	0.36	0.21	0.21	0.18	0.92	0.40	0.22	0.32	0.90	0.34	-0.17	0.17	-0.32	0.93	0.49	-0.43	1
Th	0.21	0.77	0.46	0.06	0.01	0.63	-0.77	-0.19	0.88	0.31	0.76	0.71	0.18	0.32	0.32	0.42	0.79	0.83	0.47	0.83	0.31	0.23	0.79	0.73	0.47	-0.28	0.70	0.34	0.73	0.34	0.62	0.71	0.51	0.58	0.67	0.36	-0.35	0.08	-0.19	0.60	0.79	-0.63	0.48	1
Ti	0.25	0.85	0.40	-0.04	0.08	0.53	-0.74	-0.29	0.74	0.38	0.75	0.85	0.23	0.37	0.37	0.41	0.75	0.86	0.46	0.75	0.37	0.24	0.90	0.64	0.50	-0.14	0.65	0.25	0.67	0.21	0.60	0.71	0.51	0.46	0.64	0.60	-0.21	0	-0.19	0.56	0.77	-0.63	0.49	0.78	1
Tl	0.09	0.54	0.36	-0.04	-0.05	0.43	-0.56	-0.25	0.61	0.31	0.54	0.50	0.33	0.26	0.26	0.29	0.60	0.59	0.35	0.60	0.26	0.27	0.65	0.50	0.39	-0.14	0.59	0.22	0.58	0.31	0.47	0.53	0.44	0.52	0.50	0.34	-0.20	-0.06	-0.07	0.42	0.69	-0.45	0.36	0.67	0.61	1
Tm	0.21	0.54	0.10	0.02	0.13	0.13	-0.22	0.23	0.28	0.10	0.47	0.53	0.10	0.90	0.93	0.78	0.29	0.52	0.84	0.42	0.93	0.24	0.42	0.62	0.93	0.11	0.26	0.07	0.17	0.27	0.74	0.25	0.16	0.18	0.70	0.40	-0.07	0.05	-0.27	0.75	0.41	-0.30	0.86	0.38	0.43	0.30	1
U	0.24	0.45	0.31	0.03	0.21	0.43	-0.46	0.12	0.54	0.28	0.43	0.43	0.24	0.35	0.33	0.42	0.45	0.46	0.45	0.54	0.33	0.23	0.48	0.57	0.47	0.29	0.52	0.27	0.52	0.35	0.49	0.45	0.43	0.32	0.52	0.28	-0.01	0.12	-0.19	0.50	0.45	-0.23	0.44	0.57	0.36	0.43	0.37	1
V	0.18	0.67	0.77	0.03	0.12	0.69	-0.69	-0.16	0.66	0.50	0.83	0.65	0.45	0.34	0.31	0.42	0.94	0.76	0.44	0.73	0.30	0.23	0.78	0.62	0.43	-0.20	0.72	0.47	0.64	0.21	0.56	0.78	0.61	0.63	0.61	0.52	-0.28	0.16	-0.21	0.52	0.76	-0.64	0.47	0.73	0.72	0.57	0.34	0.47	1
W	0.17	0.41	0.46	0.16	0.00	0.29	-0.39	-0.06	0.38	0.36	0.38	0.31	0.37	0.22	0.24	0.22	0.40	0.45	0.22	0.46	0.22	0.18	0.39	0.25	0.34	-0.03	0.48	0.39	0.46	0.30	0.30	0.39	0.38	0.31	0.31	0.26	-0.12	0.05	-0.07	0.27	0.55	-0.29	0.23	0.50	0.37	0.52	0.26	0.35	0.41	1
Y	0.22	0.34	0.01	-0.04	0.29	0.02	-0.01	0.33	0.01	0.03	0.32	0.30	-0.03	0.91	0.94	0.80	0.12	0.30	0.79	0.14	0.94	0.15	0.20	0.50	0.84	0.17	0.10	0.06	-0.03	0.11	0.63	0.03	0.03	-0.05	0.56	0.38	0.12	-0.02	-0.09	0.65	0.10	-0.14	0.78	0.11	0.20	0.07	0.84	0.20	0.17	0.06	1
Yb	0.21	0.62	0.20	0.02	0.22	0.23	-0.32	0.18	0.36	0.15	0.57	0.60	0.13	0.93	0.96	0.85	0.39	0.60	0.88	0.50	0.95	0.23	0.53	0.70	0.98	0.08	0.37	0.14	0.26	0.26	0.80	0.33	0.25	0.25	0.77	0.45	-0.05	0.03	-0.26	0.81	0.50	-0.36	0.90	0.48	0.50	0.39	0.94	0.46	0.44	0.34	0.85	1
Zn	0.18	0.78	0.55	0.01	-0.07	0.71	-0.81	-0.19	0.84	0.43	0.80	0.80	0.34	0.30	0.29	0.37	0.86	0.82	0.46	0.80	0.28	0.23	0.89	0.71	0.46	-0.20	0.82	0.44	0.74	0.24	0.58	0.91	0.66	0.66	0.65	0.45	-0.42	0.19	-0.19	0.55	0.83	-0.77	0.49	0.79	0.81	0.58	0.38	0.51	0.81	0.38	0.12	0.45	1

At the 99.9% level, all values >0.32 or <-0.32 are significant; in the report, only values >0.5 or <-0.5 are discussed.

Blue Rose - <2 mm soils

n=46

Spearman Rank Correlation	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sm	Sn	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Ag	1																																																			
Al	0.439	1																																																		
As	0.262	0.142	1																																																	
Au	-0.176	-0.074	0.343	1																																																
Ba	0.119	0.408	-0.131	-0.286	1																																															
Bi	0.357	0.206	-0.018	-0.202	-0.213	1																																														
Ca	-0.204	-0.547	0.423	0.353	-0.12	-0.491	1																																													
Cd	0.314	0.471	0.244	0.215	0.052	0.191	-0.228	1																																												
Ce	0.112	0.548	0.38	0.098	0.022	0.127	-0.211	0.33	1																																											
Co	0.417	0.627	-0.234	-0.185	0.147	0.513	-0.704	0.332	0.228	1																																										
Cr	0.608	0.663	0.334	-0.06	0.126	0.393	-0.406	0.498	0.366	0.532	1																																									
Cs	0.552	0.844	0.415	0.071	0.098	0.316	-0.371	0.607	0.676	0.493	0.716	1																																								
Cu	0.496	0.587	-0.05	0.145	0.02	0.322	-0.351	0.501	0.129	0.594	0.565	0.585	1																																							
Dy	0.43	0.825	0.235	0.015	0.037	0.432	-0.512	0.503	0.777	0.603	0.7	0.905	0.565	1																																						
Er	0.392	0.553	-0.465	-0.303	0.281	0.466	-0.668	0.203	-0.045	0.753	0.409	0.372	0.717	0.444	1																																					
Eu	0.331	0.743	0.055	-0.107	0.059	0.433	-0.579	0.316	0.717	0.624	0.581	0.75	0.585	0.906	0.573	1																																				
Fe	0.188	0.524	-0.112	-0.356	0.066	0.513	-0.711	0.171	0.504	0.593	0.457	0.404	0.117	0.616	0.384	0.63	1																																			
Ga	0.408	0.957	0.148	-0.067	0.395	0.177	-0.566	0.494	0.504	0.688	0.669	0.798	0.53	0.773	0.52	0.693	0.543	1																																		
Gd	0.317	0.726	0.101	-0.104	0.011	0.417	-0.542	0.332	0.775	0.615	0.591	0.756	0.53	0.92	0.486	0.967	0.665	0.683	1																																	
Hf	0.614	0.625	0.083	-0.289	0.462	0.331	-0.425	0.244	0.374	0.554	0.549	0.551	0.345	0.576	0.445	0.549	0.514	0.615	0.543	1																																
Ho	0.413	0.869	-0.032	-0.13	0.261	0.35	-0.636	0.385	0.565	0.727	0.592	0.778	0.639	0.865	0.685	0.841	0.596	0.816	0.832	0.583	1																															
In	0.137	0.465	-0.148	-0.177	0.54	-0.012	-0.323	0.154	0.197	0.436	0.203	0.184	0.088	0.227	0.265	0.26	0.479	0.52	0.259	0.488	0.334	1																														
K	0.358	0.784	-0.254	-0.352	0.481	0.167	-0.741	0.228	0.26	0.7	0.473	0.492	0.495	0.568	0.724	0.636	0.551	0.765	0.601	0.585	0.802	0.472	1																													
La	0.105	0.58	0.211	0.004	0.046	0.268	-0.393	0.243	0.925	0.426	0.404	0.633	0.21	0.802	0.166	0.814	0.594	0.553	0.863	0.421	0.663	0.231	0.418	1																												
Lu	0.522	0.808	0.33	0.087	0.034	0.397	-0.409	0.545	0.594	0.57	0.775	0.937	0.684	0.915	0.496	0.812	0.424	0.757	0.8	0.545	0.8	0.15	0.491	0.604	1																											
Mg	0.431	0.877	0.005	0.029	0.262	0.347	-0.572	0.52	0.393	0.73	0.569	0.791	0.796	0.765	0.712	0.725	0.355	0.837	0.699	0.53	0.854	0.299	0.737	0.49	0.795	1																										
Mn	0.409	0.492	-0.328	-0.141	-0.038	0.527	-0.744	0.44	0.102	0.755	0.599	0.473	0.741	0.567	0.789	0.604	0.482	0.495	0.584	0.402	0.645	0.148	0.605	0.264	0.599	0.655	1																									
Mo	0.159	0.3	0.398	0.137	0.142	0.019	-0.1	0.227	0.422	0.153	0.4	0.316	-0.175	0.338	-0.279	0.128	0.3	0.366	0.205	0.287	0.17	0.279	0.146	0.326	0.211	0.075	-0.097	1																								
Na	0.369	-0.086	-0.096	-0.094	-0.415	0.498	-0.296	0.222	-0.056	0.286	0.321	0.15	0.369	0.211	0.273	0.22	0.129	-0.099	0.232	0.082	0.103	-0.293	0.011	0.016	0.234	0.086	0.589	-0.088	1																							
Nb	-0.293	-0.22	-0.603	-0.348	0.414	-0.244	-0.136	-0.449	-0.468	-0.061	-0.385	-0.627	-0.33	-0.533	0.042	-0.409	0.002	-0.183	-0.429	-0.012	-0.261	0.368	0.157	-0.375	-0.623	-0.286	-0.194	-0.049	-0.331	1																						
Nd	0.213	0.661	-0.075	-0.215	0.143	0.365	-0.602	0.161	0.694	0.608	0.461	0.568	0.413	0.792	0.533	0.931	0.703	0.622	0.936	0.538	0.791	0.369	0.678	0.838	0.635	0.611	0.523	0.13	0.126	-0.184	1																					
Ni	0.428	0.765	0.104	-0.045	0.03	0.507	-0.563	0.482	0.538	0.57	0.617	0.815	0.588	0.87	0.572	0.778	0.594	0.694	0.766	0.501	0.786	0.167	0.565	0.573	0.838	0.758	0.638	0.095	0.258	-0.468	0.637	1																				
P	0.469	0.373	-0.125	0.195	0.18	0.211	-0.307	0.309	0.069	0.453	0.49	0.398	0.719	0.379	0.582	0.411	0.048	0.341	0.387	0.367	0.478	0.016	0.448	0.184	0.459	0.575	0.665	-0.127	0.429	-0.193	0.331	0.422	1																			
Pb	0.407	0.586	0.124	-0.07	-0.08	0.447	-0.526	0.53	0.443	0.421	0.592	0.625	0.463	0.678	0.379	0.595	0.529	0.543	0.609	0.342	0.626	0.059	0.473	0.434	0.653	0.55	0.532	0.293	0.273	-0.343	0.542	0.604	0.21	1																		
Pr	0.196	0.623	-0.142	-0.225	0.155	0.398	-0.633	0.153	0.647	0.596	0.432	0.529	0.423	0.746	0.57	0.912	0.69	0.569	0.896	0.512	0.763	0.343	0.669	0.813	0.597	0.597	0.54	0.056	0.155	-0.147	0.976	0.619	0.359	0.512	1																	
Rb	0.113	0.334	-0.471	-0.482	0.669	-0.001	-0.477	-0.129	-0.245	0.448	0.06	-0.083	0.169	-0.053	0.592	0.125	0.249	0.376	0.063	0.42	0.301	0.505	0.678	-0.064	-0.073	0.311	0.288	-0.14	-0.234	0.589	0.25	0.017	0.198	-0.052	0.274	1																
S	0.053	-0.247	-0.253	-0.248	0.366	-0.019	0.122	-0.193	-0.246	-0.036	-0.2	-0.392	-0.046	-0.356	0.101	-0.22	-0.048	-0.25	-0.206	0.074	-0.122	0.167	0.082	-0.171	-0.444	-0.188	-0.081	-0.192	-0.119	0.485	-0.057	-0.362	0.175	-0.272	-0.005	0.454	1															
Sb	0.133	0.151	0.266	0.03	0.112	0	-0.073	0.174	0.207	0.041	0.268	0.189	-0.052	0.114	-0.123	0.047	0.081	0.205	0.053	0.214	0.088	-0.104	0.023	0.236	0.137	0.038	-0.032	0.186	-0.09	-0.09	0.02	-0.023	0.073	0.05	0.027	0.032	0.017	1														
Sm	0.306	0.683	-0.107	-0.177	0.147	0.417	-0.603	0.26	0.571	0.615	0.538	0.602	0.59	0.784	0.657	0.918	0.657	0.608	0.9	0.522	0.819	0.339	0.696	0.716	0.689	0.674	0.649	-0.006	0.239	-0.219	0.936	0.707	0.479	0.559	0.937	0.255	-0.006	-0.024	1													
Sn	0.405	0.929	0.011	-0.116	0.443	0.174	-0.576	0.506	0.457	0.66	0.609	0.759	0.617	0.774	0.636	0.719	0.464	0.91	0.695	0.594	0.883	0.373	0.825	0.534	0.737	0.869	0.55	0.254	-0.03	-0.153	0.662	0.714	0.424	0.587	0.63	0.412	-0.129	0.102	0.692	1												
Sr	0.07	-0.262	0.672	0.545	-0.356	-0.345	0.748	0.065	0.151	-0.488	-0.051	0.05	-0.102	-0.083	-0.634	-0.215	-0.541	-0.286	-0.149	-0.284	-0.348	-0.431	-0.553	-0.05	-0.002	-0.271	-0.447	0.154	0.016	-0.57	-0.324	-0.222	-0.07	-0.158	-0.374	-0.688	-0.193	0.023	-0.347	-0.326	1											
Tb	0.369	0.735	0.169	-0.049	-0.042	0.457	-0.518	0.419	0.78	0.587	0.611	0.834	0.555	0.957	0.464	0.943	0.629	0.681	0.964	0.543	0.842	0.177	0.546	0.826	0.859	0.725	0.578	0.225	0.268	-0.533	0.86	0.827	0.385	0.652	0.817	-0.041	-0.31	0.076	0.831	0.695	-0.104	1										
Th	-0.274	0.011	0.351	0.092	0.14	-0.363	0.268	-0.213	0.528	-0.29	-0.184	-0.053	-0.543	0.041	-0.614	-0.019	0.143	0.027	0.058	0.047	-0.102	0.187	-0.114	0.393	-0.185	-0.273	-0.583	0.495	-0.555	0.122	0.108	-0.178	-0.44	-0.151	0.052	-0.154	0.037	0.175	-0.113	-0.089	0.276	0.014	1									
Ti	0.272	0.383	0.387	-0.004	-0.044	0.257	-0.228	0.341	0.639	0.226	0.417	0.567	-0.028	0.552	-0.06	0.432	0.527	0.415	0.513	0.492	0.332	0.154	0.18	0.555	0.453	0.219	0.186	0.422	0.101	-0.404	0.368	0.484	0.121	0.362	0.328	-0.156	-0.202	0.323	0.278	0.24	0.091	0.543	0.354	1								
Tl	0.382	0.518	-0.237	-0.266	0.232	0.331	-0.666	0.193	0.004	0.695	0.448	0.385	0.509	0.425	0.78	0.491	0.369	0.525	0.464	0.467	0.613	0.206	0.746	0.232	0.455	0.629	0.697	-0.083	0.264	-0.016	0.51	0.455	0.492	0.351	0.521	0.584	0.067	0.003	0.575	0.611	-0.495	0.42	-0.46	0.054	1							
Tm	0.473	0.803	0.276	-0.082	-0.001	0.366	-0.518	0.507	0.616	0.552	0.709	0.886	0.506	0.871	0.4	0.735	0.554	0.778	0.772	0.542	0.736	0.192	0.503	0.633	0.881	0.726	0.545	0.282	0.247	-0.532	0.602	0.817	0.285	0.648	0.552	-0.041	-0.523	0.18	0.603	0.713	-0.095	0.825	-0.105	0.531	0.433	1						
U	0.513	0.715	0.138	-0.076	0.045	0.407	-0.458	0.495	0.651	0.563	0.702	0.815	0.644	0.897	0.528	0.86	0.501	0.638	0.873	0.578	0.802	0.129	0.58	0.694	0.841	0.719	0.644	0.157	0.33	-0.5	0.761	0.801	0.556	0.581	0.737	0.01	-0.129	0.088	0.804	0.703	-0.061	0.898	-0.08	0.508	0.508	0.746	1					
V	0.474	0.843	0.47	0.025	0.282	0.266	-0.262	0.483	0.55	0.363	0.75	0.862	0.474	0.77	0.304	0.614	0.431	0.783	0.611	0.577	0.69	0.275	0.463	0.502	0.818	0.657	0.312	0.369	-0.049	-0.442	0.462	0.704	0.26	0.543	0.441	0.055	-0.257	0.23	0.526	0.734	0.013	0.658	0.053	0.493	0.293	0.764	0.655	1				
W	-0.021	0.227	0.337	0.068	0.395	-0.256	0.075	-0.074	0.281	-0.069	0.103	0.032	-0.285	0.058	-0.362	-0.03	0.092	0.28	0.008	0.222	0	0.34	0.116	0.224	-0.079	-0.019	-0.379	0.691	-0.507	0.243	0.058	-0.174	-0.282	0.021	-0.004	0.162	0.074	0.149	-0.122	0.208	0.124	-0.044	0.694	0.104	-0.179	0.017	-0.111	0.241	1			
Y	0.387	0.777	0.435	0.081	0.01	0.293	-0.361	0.506	0.774	0.532	0.645	0.91	0.406	0.886	0.229	0.74	0.508	0.783	0.776	0.431	0.729	0.23	0.423	0.745	0.854	0.683	0.371	0.444	0.082	-0.6	0.61	0.724	0.228	0.581	0.546	-0.15	-0.46	0.265	0.548	0.659	0.06	0.832	0.152	0.617	0.288	0.844	0.72	0.751	0.138	1		
Yb	0.385	0.923	0.143	-0.003	0.251	0.304	-0.576	0.494	0.63	0.673	0.627	0.888	0.578	0.883	0.548	0.795	0.523	0.893	0.792	0.58	0.905	0.38	0.69	0.682	0.87	0.898	0.531	0.283	-0.006	-0.37	0.702	0.793	0.392	0.603	0.663	0.179	-0.35	0.172	0.687	0.862	-0.242	0.833	-0.048	0.43	0.526	0.855	0.754	0.765	0.087	0.86	1	
Zn	0.246	0.891	-0.086	-0.062	0.433	0.236	-0.654	0.468	0.476	0.71	0.531	0.69	0.544	0.724	0.616	0.703	0.613	0.903	0.675	0.603	0.828	0.551	0.792	0.547	0.665	0.824	0.575	0.23	-0.098	-0.048	0.645	0.721	0.379	0.496	0.635	0.464	-0.12	0.137	0.676	0.871	-0.47	0.66	-0.026	0.396	0.52	0.651	0.598	0.682	0.136	0.654	0.834	1

At the 99.9% level, all values >0.46 or <-0.46 are significant; in the report, only values >0.6 or <-0.6 are discussed.

Blue Rose - RC intersections with anomalous Cu concentrations n=22

Spearman Rank Correlation

	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Cl_XRF	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe
Ag	1																	
Al	-0.326	1																
As	-0.158	0.673	1															
Au	0.168	0.289	0.153	1														
Ba	0.352	-0.116	-0.186	-0.14	1													
Bi	0.114	0.46	0.173	0.651	-0.328	1												
Ca	0.371	-0.729	-0.501	-0.339	0.142	-0.211	1											
Cd	-0.022	-0.133	-0.06	-0.074	0.55	-0.377	-0.127	1										
Ce	-0.296	0.962	0.699	0.304	-0.058	0.406	-0.706	-0.108	1									
Cl_XRF	0.263	0.118	-0.161	0.234	0.157	0.035	-0.032	-0.372	0.12	1								
Co	0.252	0.426	0.434	0.233	-0.076	0.051	-0.6	-0.13	0.502	0.287	1							
Cr	-0.353	0.898	0.739	0.076	-0.069	0.287	-0.66	0.093	0.854	-0.134	0.333	1						
Cs	0.624	-0.378	-0.426	0.018	0.662	-0.109	0.446	0.164	-0.421	0.428	-0.217	-0.422	1					
Cu	0.568	0.182	0.063	0.385	0.374	0.133	-0.273	-0.05	0.259	0.525	0.683	0.02	0.277	1				
Dy	-0.256	0.819	0.707	0.045	-0.357	0.308	-0.562	-0.208	0.843	-0.014	0.537	0.825	-0.618	0.111	1			
Er	-0.107	0.653	0.684	-0.07	-0.366	0.169	-0.425	-0.271	0.689	0.051	0.582	0.659	-0.571	0.196	0.939	1		
Eu	-0.303	0.905	0.636	0.159	-0.245	0.453	-0.556	-0.225	0.918	0.086	0.4	0.835	-0.506	0.085	0.928	0.806	1	
Fe	0.143	0.652	0.616	0.211	-0.069	0.168	-0.673	-0.152	0.701	0.139	0.881	0.588	-0.377	0.598	0.716	0.731	0.612	1
Ga	-0.155	0.865	0.647	0.219	-0.18	0.334	-0.792	-0.152	0.871	0.128	0.761	0.8	-0.424	0.364	0.848	0.749	0.824	0.839
Gd	-0.251	0.887	0.695	0.145	-0.256	0.39	-0.576	-0.183	0.911	0.047	0.476	0.841	-0.549	0.126	0.969	0.876	0.982	0.691
Hf	-0.362	0.838	0.51	0.226	0.262	0.213	-0.611	0.126	0.811	0.12	0.204	0.776	-0.086	0.188	0.498	0.297	0.647	0.394
Hg	0.052	0.327	0.364	0.258	-0.034	0.362	0.155	-0.174	0.327	-0.26	-0.086	0.293	-0.138	-0.052	0.276	0.207	0.328	0.155
Ho	-0.163	0.739	0.726	-0.027	-0.361	0.217	-0.5	-0.251	0.768	0.042	0.579	0.738	-0.578	0.147	0.969	0.986	0.868	0.742
In	0.689	-0.307	-0.178	0.331	0.218	-0.067	0.159	-0.016	-0.291	0.514	0.284	-0.383	0.413	0.698	-0.301	-0.11	-0.38	0.175
K	0.594	-0.458	-0.52	-0.085	0.723	-0.224	0.461	0.253	-0.491	0.403	-0.235	-0.463	0.978	0.272	-0.661	-0.602	-0.573	-0.399
La	-0.303	0.952	0.716	0.301	-0.104	0.379	-0.712	-0.128	0.994	0.118	0.535	0.844	-0.477	0.275	0.863	0.726	0.919	0.735
LOD	-0.12	0.784	0.627	0.378	-0.474	0.412	-0.674	-0.36	0.782	0.246	0.71	0.64	-0.523	0.32	0.856	0.82	0.815	0.787
LOI	0.174	-0.792	-0.377	-0.392	-0.152	-0.332	0.654	0.003	-0.73	-0.455	-0.309	-0.584	-0.033	-0.306	-0.426	-0.303	-0.6	-0.446
Lu	-0.278	0.669	0.696	-0.13	-0.323	0.077	-0.472	-0.127	0.686	-0.087	0.475	0.719	-0.609	0.07	0.919	0.952	0.796	0.651
Mg	0.325	-0.675	-0.32	-0.15	0.326	-0.483	0.38	0.285	-0.687	0.061	-0.207	-0.537	0.618	-0.019	-0.67	-0.579	-0.779	-0.441
Mn	0.446	-0.773	-0.494	-0.359	0.166	-0.333	0.773	-0.174	-0.735	0.236	-0.281	-0.715	0.544	-0.024	-0.601	-0.427	-0.652	-0.518
Mo	0.489	0.051	0.073	0.002	-0.115	0.382	0.223	-0.556	0.099	0.364	0.203	-0.039	0.203	0.229	0.168	0.217	0.201	0.144
Na	-0.345	0.939	0.646	0.367	-0.343	0.489	-0.683	-0.217	0.881	0.157	0.371	0.808	-0.433	0.088	0.819	0.681	0.883	0.561
Nb	-0.105	0.224	0.243	-0.361	0.362	-0.275	-0.155	0.213	0.361	-0.052	0.293	0.362	-0.224	0.224	0.362	0.362	0.362	0.327
Nd	-0.336	0.951	0.699	0.239	-0.131	0.385	-0.671	-0.098	0.98	0.08	0.463	0.884	-0.48	0.174	0.905	0.764	0.961	0.673
Ni	-0.234	0.802	0.64	0.228	0.044	0.309	-0.786	0.12	0.827	-0.137	0.534	0.807	-0.347	0.208	0.669	0.475	0.673	0.651
P	-0.365	-0.048	-0.105	0.229	0.062	-0.089	-0.084	0.326	-0.097	0.18	-0.324	0.01	0.082	-0.089	-0.216	-0.265	-0.156	-0.4
Pb	-0.189	0.685	0.528	0.046	-0.077	0.29	-0.407	0.058	0.738	-0.273	0.324	0.69	-0.502	0.103	0.752	0.634	0.752	0.543
Pr	-0.323	0.958	0.709	0.256	-0.113	0.393	-0.687	-0.095	0.988	0.083	0.481	0.883	-0.462	0.196	0.893	0.747	0.951	0.682
Rb	0.625	-0.488	-0.518	-0.098	0.694	-0.218	0.512	0.185	-0.513	0.411	-0.234	-0.508	0.98	0.274	-0.674	-0.594	-0.581	-0.402
S	0.691	-0.505	-0.418	-0.027	0.715	-0.19	0.532	0.219	-0.5	0.312	-0.224	-0.524	0.915	0.336	-0.683	-0.584	-0.628	-0.336
Se	0.706	-0.084	0.066	0.136	0.138	0.153	0.082	-0.36	-0.084	0.509	0.384	-0.191	0.428	0.657	-0.053	0.11	-0.136	0.313
SiO2_XRF	-0.379	0.78	0.591	0.155	-0.171	0.261	-0.568	-0.155	0.755	0.155	0.268	0.694	-0.339	-0.121	0.644	0.468	0.758	0.404
Sm	-0.281	0.934	0.667	0.225	-0.145	0.452	-0.611	-0.163	0.961	0.115	0.439	0.856	-0.453	0.173	0.912	0.778	0.984	0.647
Sn	0.235	0.495	0.364	0.425	0.331	0.137	-0.377	0.057	0.574	0.586	0.554	0.349	0.097	0.75	0.352	0.368	0.391	0.573
Sr	-0.19	0.217	0.247	0.08	-0.694	0.371	-0.081	-0.492	0.255	-0.153	0.157	0.136	-0.662	-0.123	0.498	0.583	0.459	0.259
Tb	-0.211	0.845	0.708	0.097	-0.306	0.364	-0.566	-0.216	0.872	0.016	0.524	0.813	-0.577	0.134	0.981	0.922	0.96	0.73
Te	0.191	0.463	0.239	0.728	-0.313	0.825	-0.387	-0.159	0.44	-0.058	0.313	0.27	-0.157	0.257	0.353	0.212	0.413	0.348
Th	-0.379	0.922	0.67	0.248	-0.105	0.379	-0.698	-0.154	0.961	0.159	0.452	0.809	-0.407	0.174	0.825	0.682	0.922	0.606
Ti	-0.317	0.975	0.671	0.209	-0.067	0.397	-0.769	-0.099	0.96	0.118	0.504	0.907	-0.382	0.23	0.835	0.678	0.897	0.691
Tl	0.783	-0.535	-0.446	-0.051	0.497	-0.194	0.434	0.112	-0.551	0.422	0.049	-0.55	0.846	0.402	-0.57	-0.429	-0.577	-0.19
Tm	-0.213	0.698	0.726	-0.045	-0.397	0.18	-0.477	-0.288	0.739	0.006	0.565	0.7	-0.624	0.147	0.945	0.976	0.831	0.718
U	-0.188	0.583	0.457	0.158	-0.054	0.451	-0.237	-0.293	0.556	0.301	0.057	0.473	-0.043	0.12	0.45	0.418	0.584	0.191
V	0.034	0.821	0.573	0.136	-0.071	0.452	-0.53	-0.381	0.839	0.249	0.634	0.715	-0.236	0.39	0.81	0.716	0.835	0.759
W	-0.088	0.389	0.605	-0.063	-0.114	0.211	-0.14	0.001	0.435	-0.283	0.008	0.533	-0.297	-0.155	0.521	0.423	0.498	0.185
Y	-0.111	0.654	0.666	0.002	-0.447	0.263	-0.416	-0.369	0.692	0.068	0.56	0.636	-0.61	0.182	0.931	0.977	0.822	0.712
Yb	-0.14	0.595	0.673	-0.118	-0.353	0.109	-0.377	-0.257	0.638	-0.011	0.526	0.627	-0.582	0.162	0.904	0.984	0.758	0.691
Zn	0.398	0.204	0.461	-0.058	0.031	-0.193	-0.332	0.009	0.271	0.154	0.822	0.289	-0.102	0.549	0.438	0.557	0.198	0.745
Zr_XRF	-0.278	0.97	0.652	0.252	-0.04	0.427	-0.716	-0.098	0.957	0.123	0.444	0.861	-0.319	0.221	0.807	0.652	0.901	0.643

	Ga	Gd	Hf	Hg	Ho	In	K	La	LOD	LOI	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Ga	1																						
Gd	0.844	1																					
Hf	0.608	0.596	1																				
Hg	0.086	0.327	0.322	1																			
Ho	0.809	0.924	0.395	0.224	1																		
In	-0.176	-0.309	-0.313	-0.157	-0.201	1																	
K	-0.476	-0.607	-0.149	-0.224	-0.621	0.427	1																
La	0.873	0.922	0.78	0.327	0.794	-0.253	-0.543	1															
LOD	0.873	0.85	0.427	0.189	0.851	-0.011	-0.605	0.813	1														
LOI	-0.586	-0.552	-0.801	-0.138	-0.396	0.049	0.036	-0.704	-0.549	1													
Lu	0.723	0.859	0.381	0.241	0.943	-0.253	-0.627	0.719	0.76	-0.314	1												
Mg	-0.582	-0.745	-0.416	-0.327	-0.623	0.311	0.66	-0.701	-0.623	0.397	-0.53	1											
Mn	-0.639	-0.66	-0.674	-0.361	-0.504	0.333	0.575	-0.739	-0.617	0.644	-0.55	0.595	1										
Mo	0.156	0.167	-0.137	-0.069	0.223	0.142	0.119	0.081	0.185	0.023	-0.03	-0.176	0.406	1									
Na	0.797	0.875	0.718	0.293	0.757	-0.257	-0.538	0.883	0.858	-0.745	0.687	-0.675	-0.752	0.061	1								
Nb	0.362	0.362	0.322	-0.048	0.361	-0.157	-0.155	0.361	0.12	-0.017	0.362	-0.361	-0.086	0.12	0.052	1							
Nd	0.864	0.96	0.762	0.327	0.833	-0.336	-0.541	0.979	0.804	-0.679	0.78	-0.7	-0.738	0.06	0.898	0.361	1						
Ni	0.831	0.686	0.729	0.19	0.568	-0.364	-0.384	0.803	0.588	-0.571	0.513	-0.43	-0.738	-0.006	0.665	0.363	0.785	1					
P	-0.224	-0.198	0.231	-0.155	-0.257	0.102	0.109	-0.104	-0.166	-0.2	-0.167	0.178	-0.078	-0.424	0.035	-0.017	-0.077	-0.104	1				
Pb	0.615	0.784	0.521	0.362	0.671	-0.34	-0.542	0.752	0.532	-0.277	0.609	-0.7	-0.52	0.092	0.626	0.422	0.751	0.559	-0.303	1			
Pr	0.873	0.949	0.781	0.327	0.819	-0.33	-0.527	0.985	0.8	-0.695	0.758	-0.694	-0.741	0.069	0.898	0.362	0.998	0.811	-0.075	0.751	1		
Rb	-0.496	-0.618	-0.195	-0.224	-0.618	0.439	0.992	-0.561	-0.61	0.074	-0.638	0.64	0.633	0.185	-0.56	-0.155	-0.563	-0.434	0.056	-0.54	-0.549	1	
S	-0.552	-0.633	-0.212	-0.086	-0.618	0.536	0.926	-0.535	-0.639	0.105	-0.658	0.625	0.603	0.181	-0.595	-0.173	-0.578	-0.417	0.026	-0.464	-0.556	0.937	1
Se	0.045	-0.084	-0.188	-0.156	0.044	0.676	0.387	-0.069	0.1	-0.021	-0.091	0.281	0.433	0.559	-0.097	-0.156	-0.147	-0.136	-0.261	-0.114	-0.128	0.422	0.505
SiO2_XRF	0.63	0.724	0.69	0.258	0.582	-0.444	-0.42	0.742	0.627	-0.687	0.472	-0.531	-0.608	0.12	0.78	0.224	0.746	0.668	0.031	0.465	0.757	-0.447	-0.486
Sm	0.847	0.974	0.711	0.327	0.841	-0.332	-0.517	0.957	0.803	-0.652	0.776	-0.722	-0.679	0.153	0.886	0.361	0.988	0.742	-0.121	0.75	0.983	-0.534	-0.561
Sn	0.482	0.418	0.491	0.069	0.373	0.513	0.071	0.586	0.471	-0.608	0.253	-0.269	-0.236	0.18	0.421	0.328	0.5	0.352	0.164	0.307	0.516	0.059	0.155
Sr	0.317	0.467	-0.195	0.12	0.557	-0.16	-0.707	0.291	0.524	0.107	0.521	-0.66	-0.2	0.253	0.35	0.086	0.328	0.011	-0.27	0.308	0.3	-0.645	-0.657
Tb	0.851	0.99	0.517	0.292	0.96	-0.29	-0.632	0.887	0.863	-0.488	0.895	-0.727	-0.62	0.198	0.839	0.361	0.927	0.66	-0.263	0.769	0.915	-0.635	-0.649
Te	0.426	0.411	0.218	0.363	0.254	0.005	-0.274	0.432	0.536	-0.337	0.153	-0.374	-0.499	0.182	0.529	-0.346	0.406	0.426	-0.22	0.398	0.421	-0.288	-0.229
Th	0.849	0.894	0.78	0.207	0.762	-0.393	-0.481	0.948	0.764	-0.711	0.702	-0.634	-0.667	0.111	0.867	0.362	0.96	0.774	-0.044	0.656	0.963	-0.496	-0.549
Ti	0.914	0.88	0.828	0.224	0.763	-0.326	-0.441	0.945	0.773	-0.76	0.694	-0.642	-0.742	0.092	0.882	0.362	0.947	0.867	-0.049	0.651	0.956	-0.475	-0.509
Tl	-0.384	-0.562	-0.423	-0.329	-0.482	0.616	0.864	-0.569	-0.434	0.203	-0.54	0.653	0.692	0.266	-0.57	-0.207	-0.586	-0.457	-0.11	-0.484	-0.572	0.883	0.846
Tm	0.793	0.888	0.35	0.195	0.973	-0.192	-0.665	0.773	0.837	-0.306	0.955	-0.604	-0.479	0.189	0.719	0.371	0.805	0.538	-0.271	0.632	0.789	-0.656	-0.664
U	0.369	0.521	0.5	0.189	0.437	-0.159	-0.122	0.547	0.369	-0.565	0.415	-0.315	-0.247	0.211	0.547	0.034	0.578	0.315	0.172	0.262	0.585	-0.105	-0.12
V	0.876	0.831	0.582	0.241	0.769	-0.177	-0.308	0.828	0.759	-0.543	0.623	-0.574	-0.42	0.461	0.718	0.361	0.817	0.727	-0.398	0.639	0.827	-0.309	-0.34
W	0.273	0.52	0.336	0.26	0.454	-0.325	-0.364	0.436	0.267	-0.046	0.405	-0.258	-0.204	0.331	0.399	0.312	0.454	0.408	-0.119	0.594	0.454	-0.37	-0.284
Y	0.756	0.879	0.268	0.19	0.97	-0.104	-0.657	0.728	0.851	-0.271	0.902	-0.659	-0.404	0.316	0.704	0.362	0.758	0.457	-0.281	0.64	0.74	-0.638	-0.635
Yb	0.694	0.831	0.259	0.224	0.956	-0.128	-0.603	0.676	0.763	-0.228	0.971	-0.521	-0.411	0.136	0.618	0.362	0.725	0.431	-0.261	0.579	0.702	-0.594	-0.59
Zn	0.553	0.321	0.014	-0.155	0.53	0.385	-0.092	0.301	0.471	-0.028	0.43	0.014	0.008	0.286	0.149	0.361	0.249	0.345	-0.344	0.259	0.258	-0.091	-0.036
Zr_XRF	0.858	0.884	0.838	0.258	0.738	-0.333	-0.402	0.942	0.745	-0.771	0.656	-0.657	-0.708	0.104	0.906	0.292	0.947	0.802	-0.077	0.737	0.958	-0.419	-0.449

	Se	SiO2_XRF	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr_XRF
Se	1																	
SiO2_XRF	-0.203	1																
Sm	-0.09	0.747	1															
Sn	0.382	0.27	0.477	1														
Sr	-0.145	0.075	0.366	-0.067	1													
Tb	-0.039	0.672	0.944	0.378	0.53	1												
Te	0.136	0.279	0.435	0.177	0.244	0.39	1											
Th	-0.117	0.765	0.953	0.469	0.303	0.862	0.37	1										
Ti	-0.076	0.768	0.93	0.5	0.205	0.848	0.389	0.938	1									
Tl	0.636	-0.495	-0.541	0.085	-0.521	-0.541	-0.164	-0.551	-0.518	1								
Tm	0.02	0.487	0.808	0.339	0.622	0.927	0.22	0.744	0.725	-0.53	1							
U	0.184	0.421	0.616	0.35	0.148	0.491	0.209	0.62	0.555	-0.18	0.425	1						
V	0.27	0.647	0.851	0.465	0.249	0.83	0.429	0.813	0.858	-0.239	0.724	0.483	1					
W	0.046	0.492	0.488	0.053	0.09	0.504	0.233	0.422	0.393	-0.371	0.435	0.281	0.423	1				
Y	0.115	0.483	0.782	0.357	0.681	0.924	0.263	0.689	0.675	-0.472	0.971	0.385	0.736	0.454	1			
Yb	0.067	0.38	0.734	0.299	0.602	0.884	0.144	0.646	0.625	-0.454	0.974	0.402	0.649	0.392	0.952	1		
Zn	0.489	0.071	0.226	0.478	0.068	0.391	0.01	0.196	0.297	0.187	0.515	-0.151	0.473	0.156	0.532	0.52	1	
Zr_XRF	-0.038	0.766	0.936	0.487	0.199	0.849	0.442	0.946	0.958	-0.464	0.684	0.601	0.84	0.424	0.65	0.59	0.217	1

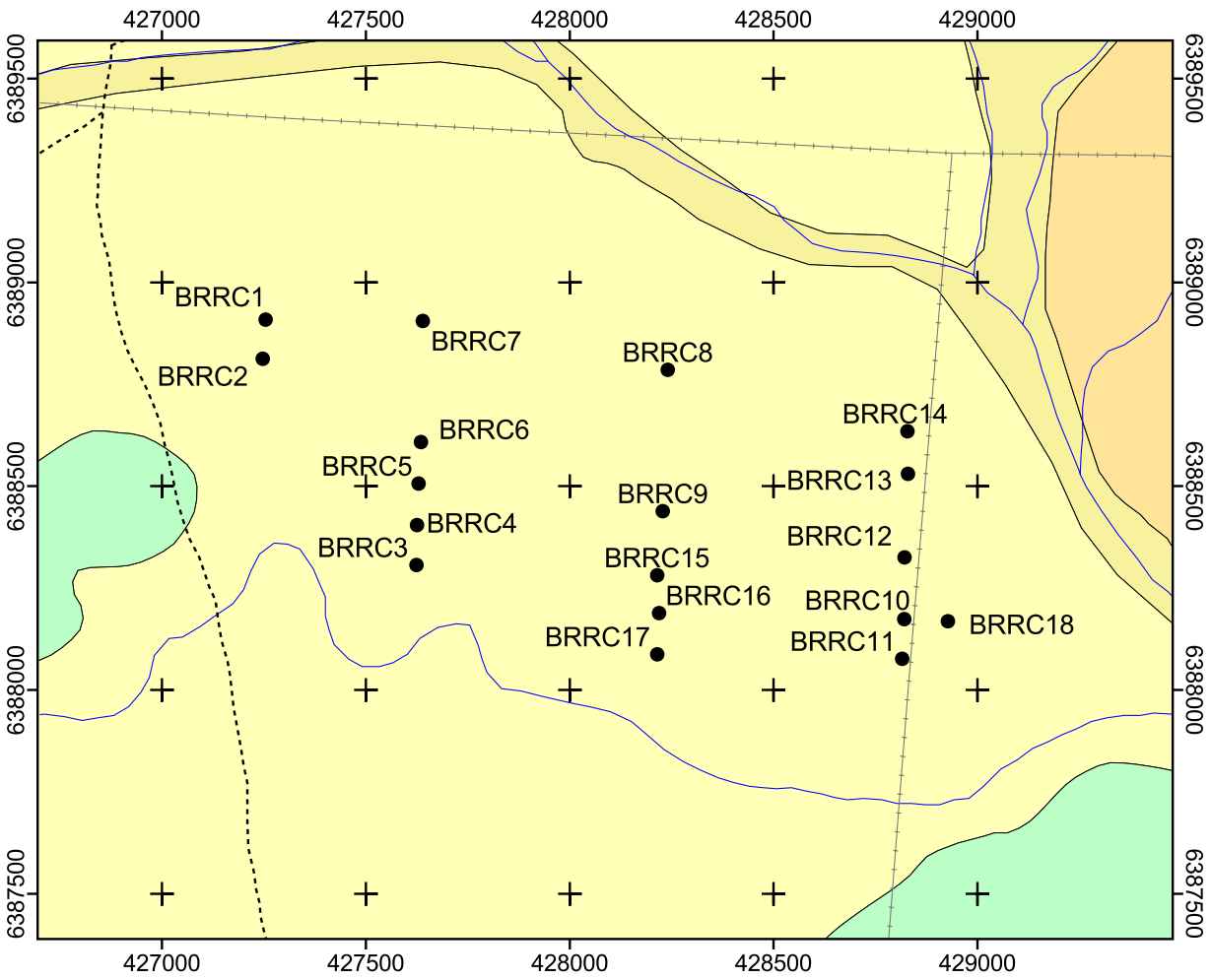
LOD = loss on drying

LOI = loss on ignition

all samples analysed by ICP, except where indicated (XRF)

At the 99.9% level, all values >0.63 or <-0.63 are significant; in the report, only values >0.65 or <-0.65 are discussed.

Appendix 3.13
RC drill logs



Location of RC drill holes at Blue Rose

Regolith landform units used at Blue Rose are described below:

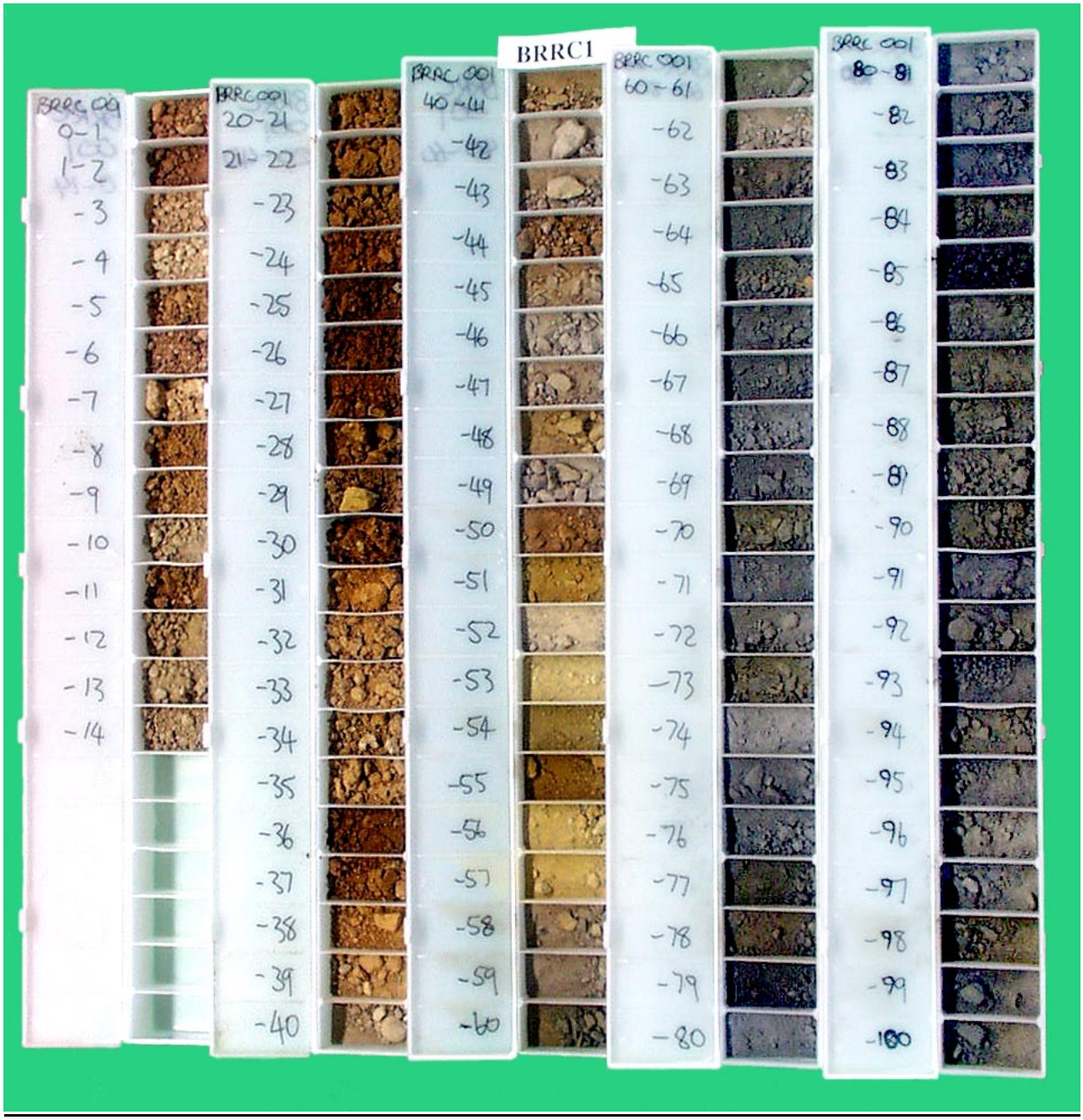
Essh - Lags of siltstone, mudstone and shale fragments on saprock, and in places saprolite is developed along fracture zones or drainage line. Low hills.

Dss - Unconsolidated fluvial sands and gravel. Modern stream channels.

Dafp - Alluvium and fluvial gravels, commonly carbonate-cemented. Floodplains.

Dap - Brown soil with lenses of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.

Daf - Brown soil with lags of river gravel and lenses of nodular calcretes on middle channel and overbank sediments. Gently sloping alluvial fans.

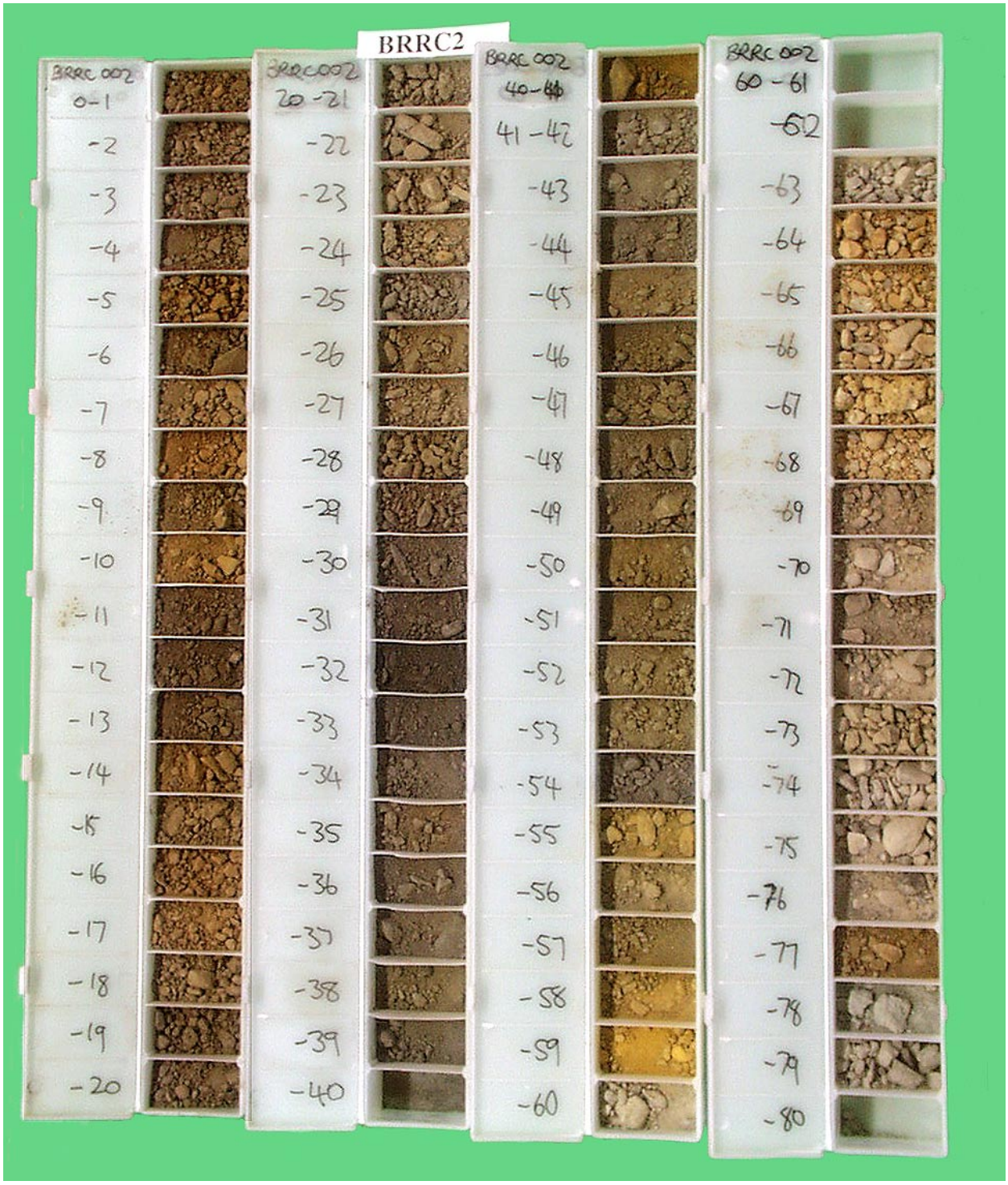

BRRC1
BRRC 001
0-1
1-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
BRRC 001
20-21
21-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC 001
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC 001
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80
BRRC 001
80-81
-82
-83
-84
-85
-86
-87
-88
-89
-90
-91
-92
-93
-94
-95
-96
-97
-98
-99
-100

BRRC1

6388907N 427254E

0-2	Colluvial gravels, with fragments of quartz and siltstone cemented by calcrete; calcrete nodules; minor buckshot gravel
2-4	Very pale grey-brown clay and gravel cemented by calcrete, with chalcedony
4-5	Pale greyish yellow-brown clay and gravel cemented by calcrete, with chalcedony
5-6	Greyish brown to greyish yellow-brown gravel (commonly ferruginous siltstone pebbles, some quartz and minor buckshot gravel) cemented by calcrete
6-8	Pale greyish yellow-brown clays with abundant chalcedony (locally ferruginous)
8-10	Pale greyish yellow-brown and greyish purple-brown clays with chalcedony; rare ferruginous-siliceous material
	BASE OF TRANSPORTED COVER
10-11	Pale greyish yellow-brown vermiculite-rich clays; with chalcedony and ferruginous-siliceous material (?contamination)
11-14	Very pale yellow-brown, yellow-brown, orange-brown and purple, weakly mottled vermiculite-rich clays, with minor quartz veining and ferruginous material on fractures; white saprolite with mica and iron oxides after pyrite
14-20	*missing samples*
20-26	White, cream and grey siliceous fragments (with bedding), locally with ferruginous coatings; minor mica on bedding planes
26-28	White to grey siliceous rock and yellow-brown ferruginous micaceous (coarse-grained) rock
28-30	Pale grey to grey siliceous rock with fine-grained muscovite; locally cherty with very fine-grained disseminated pyrite
30-32	Pale greyish yellow-brown to pale greyish orange-brown, micaceous schist with minor quartz veining
32-33	White, fine-grained siliceous rock with very coarse-grained mica and Fe oxides on joint planes
33-35	White to cream slightly more weathered siliceous rock; Fe oxide ‘spotting’ after ?biotite; minor coarse-grained muscovite
35-39	Weathered grey to white siliceous rock (with bedding), locally with coarse-grained muscovite, Fe oxide coatings on joints, casts after pyrite or fine-grained disseminated pyrite (with yellow-green coatings)
39-41	Fresher quartz-biotite(±muscovite) and grey quartz-muscovite rock with rare disseminated pyrite; Fe oxides on joints and fractures
41-50	Generally fresh, apart from Fe oxides on joints; white to grey siliceous rock with disseminated mica; the more micaceous zones are also relatively rich in disseminated pyrite; 46-47 m: pyrite relatively common
50-51	Weathered (yellow-green) fine-grained siliceous rock with relatively abundant disseminated pyrite
51-52	Relatively fresh, grey fine-grained siliceous rock; biotite on joint planes; minor weathered pyrite
52-54	More weathered (yellow-green) sulphidic interval in grey cherty rock; 53-54 m: relatively rich in pyrite
54-59	Grey to dark grey, banded cherty rock; generally fresh, except where pyrite-rich (54-56 m); biotite on joint planes
59-100	Fresh, dark grey to black siliceous-argillaceous rock with disseminated mica; locally with disseminated pyrite; relatively coarse-grained mica on joint planes

EOH


BRRC2
BRRC 002
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC 002
20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC 002
40-41
41-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC 002
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC2

6388811N 427247E

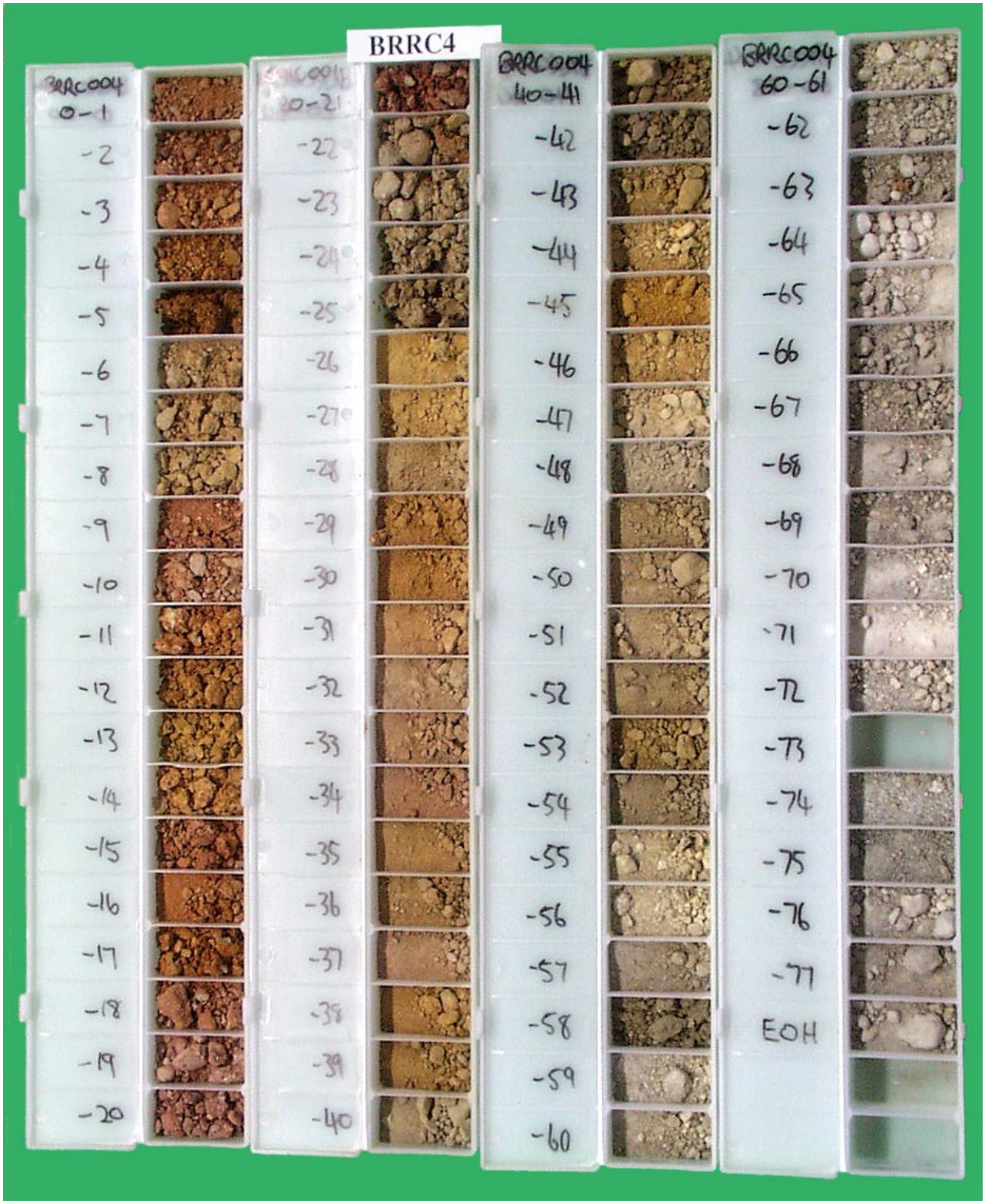
0-2	Greyish orange-brown; nodular calcrete in colluvial gravels
	BASE OF TRANSPORTED COVER
2-4	Weathered grey, fine-grained siliceous rock; calcrete on joint planes
4-6	Fresher, dark grey to black, fine-grained siliceous-argillaceous rock, locally with coarse-grained biotite on joints; some weathering (bleaching) along major joints
6-10	Slightly more weathered (along joints); fine-grained, grey siliceous-argillaceous rock; ferruginous coatings and bleaching along joints
10-13	Slightly fresher, fine-grained siliceous-argillaceous rock; lesser ferruginisation and no bleaching on joints; coarse-grained mica on joints
13-29	Variably weathered, fine-grained siliceous-argillaceous rock; typically with Fe oxides on joints
29-39	Essentially fresh (except for rare clay on joints), dark grey siliceous-argillaceous rock, locally with coarse-grained biotite
39-40	*missing sample*
40-53	Slightly weathered to fresh, dark grey, fine-grained, banded siliceous-argillaceous rock
53-60	Slightly weathered to fresh, finely foliated shaley rock with relatively common disseminated pyrite and mica
60-62	*missing samples*
62-68	Slightly weathered to fresh, pale grey siliceous-argillaceous rock with minor disseminated pyrite; muscovite, chlorite, Fe oxide and bleaching on joints
68-78	Fresh, fine-grained, grey siliceous-argillaceous rock, with fine-grained disseminated pyrite; at 71-72 m white, ovoid, siliceous domains (?clasts)
78-79	Banded grey biotite-rich rock with disseminated pyrite and ovoid domains
EOH	


BRRC3
3RRC003
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
3RRC003
20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
3RRC003
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
3RRC003
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC3

6388305N 427624E

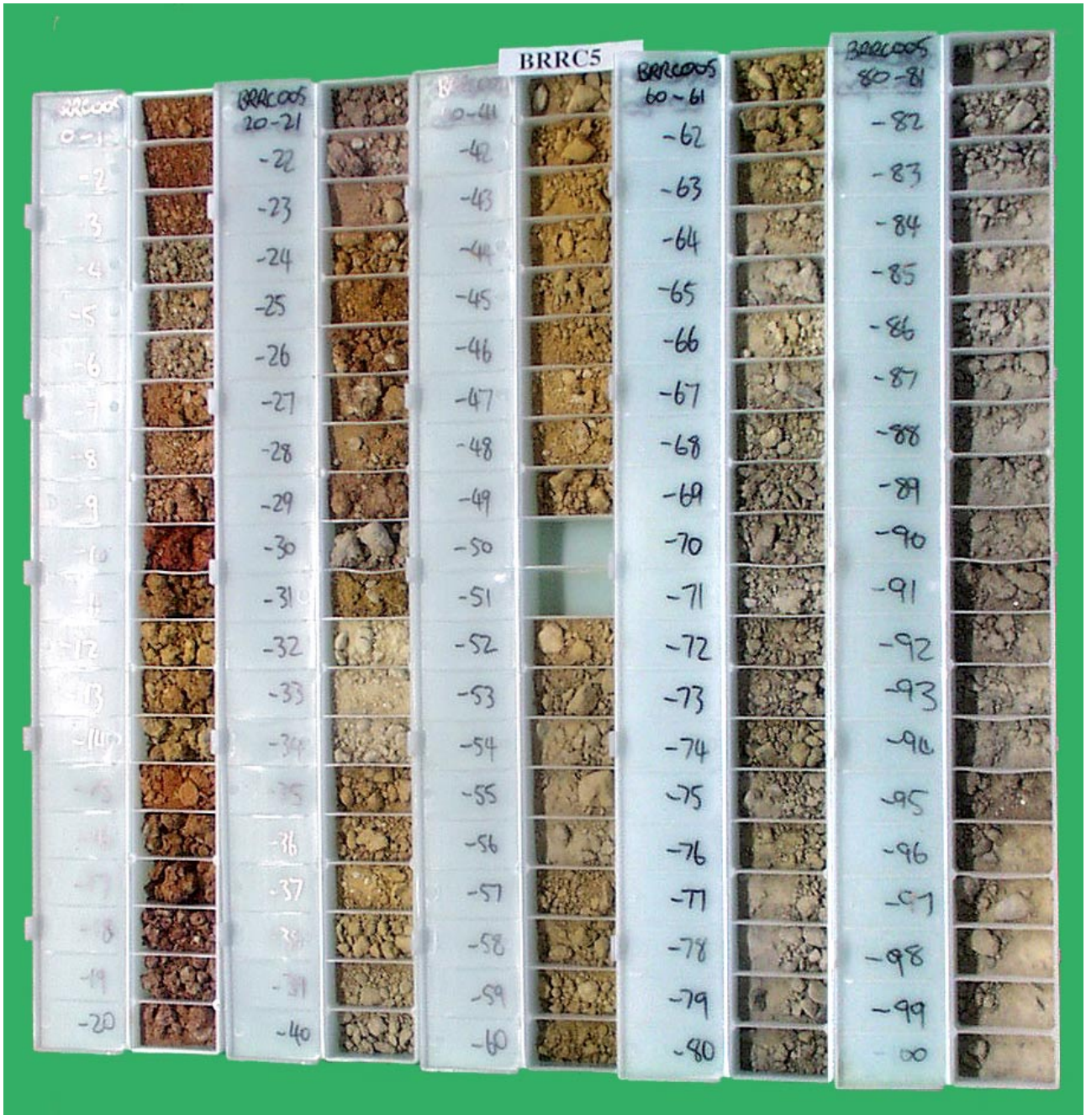
0-2	Greyish orange-brown; colluvial gravels (quartz, ferruginised siltstone, buckshot gravel) cemented by nodular calcrete
2-5	Yellow-brown, ferruginous clays with chalcedony; gravel (quartz, buckshot gravel) at 2-3 m
5-6	Orange-brown; silcrete
6-7	White/red-brown plastic mottled clays
7-9	Red-brown/white/grey plastic mottled clays, locally with red-brown ferruginous material
9-11	Orange-brown to greyish orange-brown/white/pale green plastic mottled clays
11-12	Dirty green/orange-brown/yellow-green plastic mottled clays
	BASE OF TRANSPORTED COVER
12-14	Greyish yellow-brown and dirty green vermiculite-bearing clays
14-16	Pale grey-green vermiculite-bearing clays
16-19	Slightly weathered to fresh, finely foliated, fine-grained albite-quartz-mica rock
19-22	Yellow-green, weathered albite-quartz-mica rock, locally with quartz veinlets
22-29	Fresh, fine-grained albite-quartz-mica rock
29-32	Variably weathered interval; albite-quartz-mica rock, locally well-banded, with rare, coarse-grained biotite veinlets
32-33	Biotitic schist and albite-quartz-mica rock
33-37	Massive albite-quartz-mica rock; locally well-banded; chlorite on joints and fractures
37-38	Albite-quartz-mica rock, locally with coarse biotite flakes
38-40	Slightly weathered albite-quartz rock with disseminated biotite/chlorite; Fe oxides on joints
40-42	Slightly weathered albite-quartz rocks with disseminated biotite/chlorite; locally with relatively coarse biotite/muscovite/chlorite on joints/bedding planes
42-49	Generally fresh; albite-quartz rock with disseminated muscovite; yellow-green coatings on joints
49-80	Albite-quartz rock with disseminated biotite/chlorite; locally well-banded
EOH	


BRRC4
BRRC004
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
EOH

BRRC4

6388403N 427625E

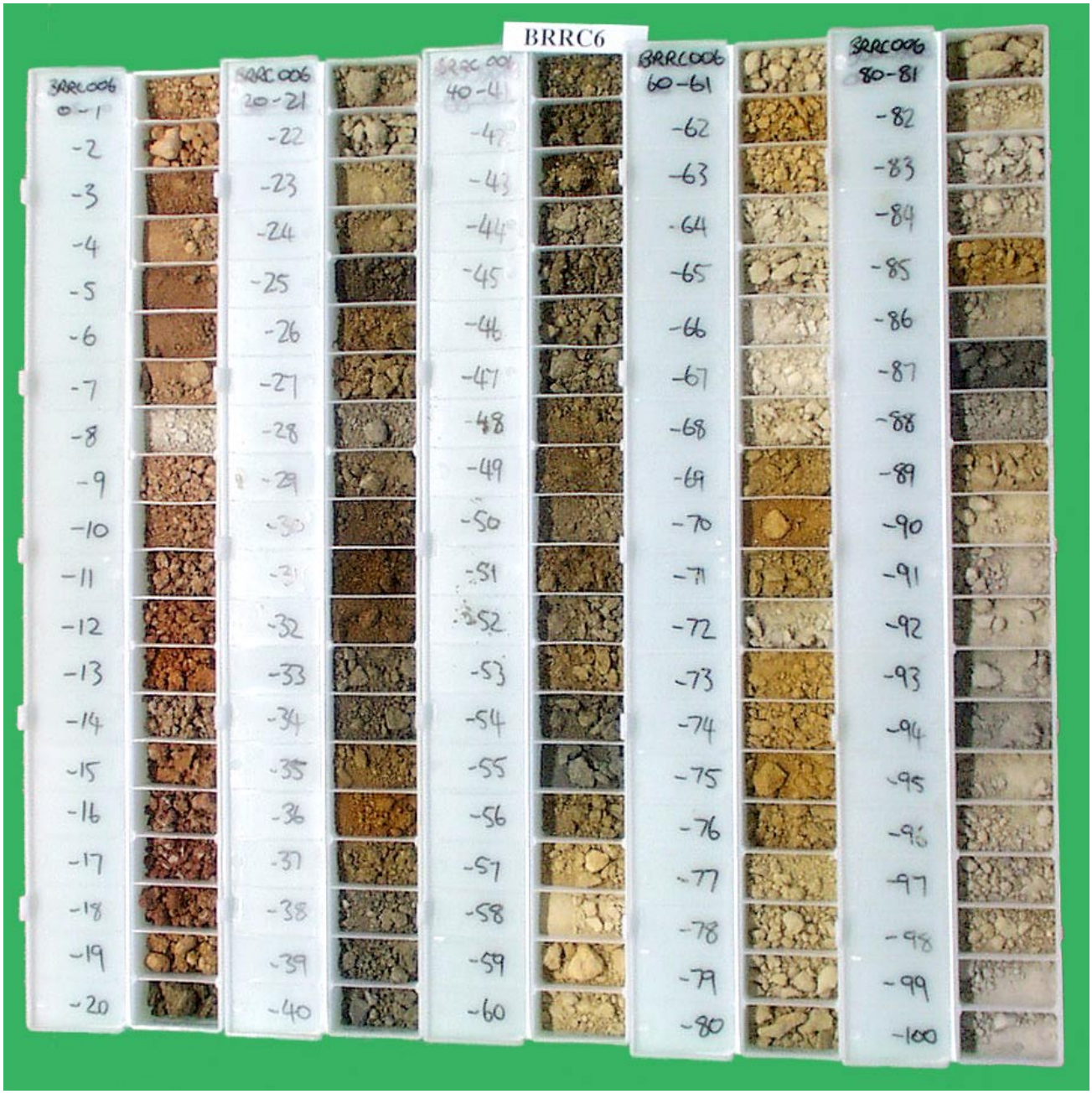
0-2	Greyish orange-brown; colluvium (quartz, chert, siltstone, chalcedony, buckshot gravel), cemented by calcrete/silcrete
2-3	Pale greyish orange-brown; nodular calcrete; locally with quartz and buckshot gravel
3-4	Greyish yellow-brown; clays and chalcedony, with minor amounts of buckshot gravel
4-8	Greyish yellow-brown to pale greyish yellow-brown; clays and chalcedony
8-10	Orange-brown clays with chalcedony and ferruginous material
10-11	Orange-brown/pale green plastic mottled clays
11-14	Orange-brown/yellow-brown/pale green/white plastic mottled clays
14-15	Red-brown/grey plastic mottled clays
15-17	Orange-brown/yellow-brown/grey/white plastic mottled clays
17-21	Purple/grey/red-brown/yellow-brown/white/grey-green plastic mottled clays; red-brown to black ferruginous material at 20-21 m
21-22	Orange-brown/yellow-green/grey plastic mottled clays
22-25	Weakly mottled pale grey-green/orange-brown plastic clays
	BASE OF TRANSPORTED COVER
25-26	Weakly mottled white/pale green/orange-brown clays and weathered albite-quartz-mica rock
26-42	Weathered albite-quartz-mica rock; locally with coarse biotite on bedding planes; Fe oxides on joints; at 41-42 m: coarse-grained quartz-biotite±pyrite veinlets
42-44	Slightly weathered albite-quartz-muscovite rock
44-45	Weathered interval with albite-quartz-mica rock and relatively coarse-grained mica aggregates
45-51	Slightly weathered albite-quartz-mica rock; generally fresh, but locally with Fe oxides on joints
51-56	Siltstone; locally with coarse-grained biotite on joints/bedding planes; at 55-56 m: very coarse muscovite flakes, probably related to quartz veinlets
56-61	Albite-quartz-mica rock with relatively abundant biotite/chlorite; very locally, with quartz veinlets(associated with coarse biotite/chlorite) or milky quartz-muscovite veinlets (?greisen)
61-63	Pale grey-green siltstone
63-72	White to grey albite-quartz-mica rock, locally with coarse biotite flakes
72-73	*missing sample*
73-78	Albite-quartz-mica rock; coarse-grained muscovite on joints and bedding planes
EOH	


BRRC5

BRRC5

6388505N 427629E

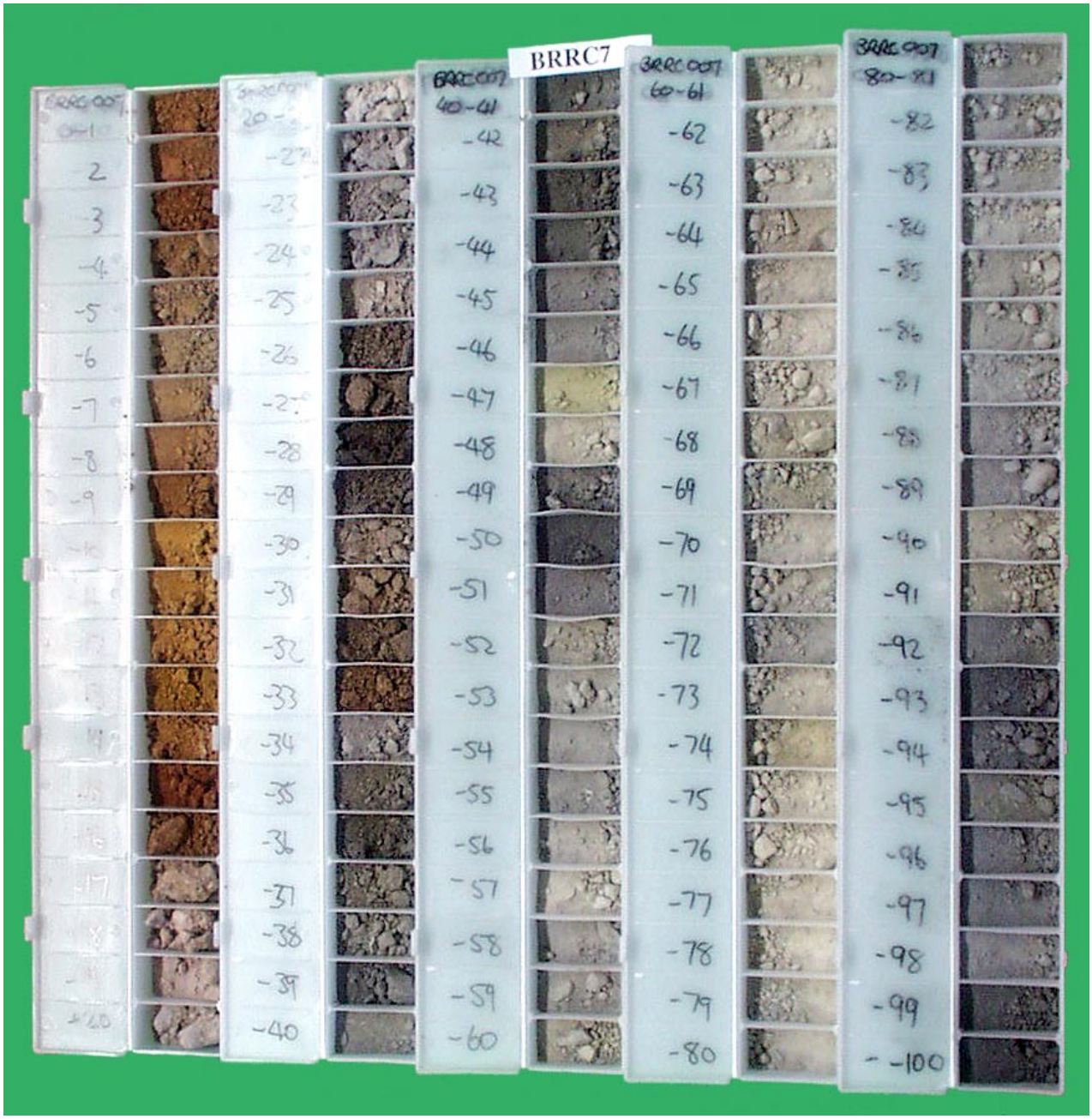
0-2	Orange-brown soil with calcrete nodules
2-3	Greyish orange-brown; colluvial gravels (quartz, ferruginous material, chert, siltstone) cemented by calcrete/silcrete
3-9	White to pale orange-brown, chalcedony, locally with orange-brown staining; plastic clays at 8-9 m
9-10	Orange-brown/grey plastic mottled clays
10-14	Orange-brown/pale green/yellow-brown/white/grey plastic mottled clays
14-17	Orange-brown/white/pale green/green plastic mottled clays; rare fine-grained buckshot gravel
17-23	Purple-brown/grey/green/pinkish brown plastic mottled clays
23-26	Yellow-brown/white/pale green/red-brown plastic mottled clays; minor ferruginous fragments
26-29	Orange-brown/white/pale green plastic mottled clays
29-30	White to very pale green plastic mottled clays
30-31	Yellow-brown sandy clays and quartz fragments
	BASE OF TRANSPORTED COVER
31-34	White to very pale yellow-brown sandy clays (?after carbonate rock), locally with quartz veinlets
34-40	White clays with quartz-mica veining
40-49	Weathered albite-quartz-mica rock
49-51	*missing samples*
51-70	Slightly weathered albite-quartz-mica rock with siltstone horizons, with Fe oxides on joints and fractures
70-100	Siltstone; greisen veins at 91-92 m and 94-95 m
EOH	


BRRC6
BRRC006
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC006
20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC006
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC006
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80
BRRC006
80-81
-82
-83
-84
-85
-86
-87
-88
-89
-90
-91
-92
-93
-94
-95
-96
-97
-98
-99
-100

BRRC6

6388607N 427635E

0-2	Pale greyish orange-brown; nodular calcrete
2-3	Pale greyish orange-brown; silcrete with calcrete coatings
3-4	Very pale greyish orange-brown; clays, chalcedony and minor ferruginous-siliceous material; powdery calcrete as coatings
4-6	Greyish brown; gravels: quartz, purple siliceous-ferruginous material, siltstone pebbles, chalcedony; some fragments have calcrete coatings
6-7	Pale greyish orange-brown; calcrete cementing chalcedony, ferruginous material and minor quartz
7-8	White; chalcedony
8-9	Greyish orange-brown; chalcedony and orange-brown clays
9-10	Coarse gravel: quartz, siltstone and chert pebbles in greyish orange-brown clays
10-13	Orange-brown clays with rare quartz and red-brown ferruginous material
13-18	Orange-brown/white/grey plastic mottled clays
18-19	Orange-brown and apple-green clays
	BASE OF TRANSPORTED COVER
19-20	Dirty green/pale green mottled clays
20-22	Weathered grey-green albite quartz-mica rock with quartz-mica veining
22-23	Pale grey-green; albite-quartz-mica rock
23-24	Pale grey-green clays
24-25	Greenish black; clays with chalcedony
25-26	Greyish brown; clays with chalcedony
26-27	Weathered albite-quartz-mica banded rock; quartz-mica veinlets
27-28	Weathered albite-quartz-mica rock
28-30	Spotted albite-quartz-mica rock
30-32	Dark grey/yellow-brown mottled clays with quartz veinlets with Fe oxides after pyrite
32-34	Spotted albite-quartz-mica rock; quartz-mica veining
34-37	Orange-brown to yellow-brown, vermiculite-bearing clays, locally with weathered spotted albite-quartz-mica rock
37-44	Spotted albite-quartz-mica rock, locally with quartz±muscovite veinlets
44-45	Albite-quartz-mica rock with very thin, discontinuous veinlets parallel to banding
45-47	Albite-quartz-mica rock with local spotting; Fe oxides on joints
47-49	Grey-green clays; quartz veinlets
49-50	Weathered albite-quartz-mica rock with quartz veinlets
50-51	Grey-green clays; quartz veinlets
51-53	Spotted albite-quartz-mica rock with relatively coarse-grained chlorite
53-55	Weathered, spotted albite-quartz-mica rock, locally with coarse-grained chlorite
55-63	Weathered albite-quartz-mica rock; quartz-muscovite veining
63-68	Albite-quartz-mica rock; quartz±muscovite veining
68-71	Weathered albite-quartz-mica rock; quartz±muscovite veining
71-72	Chlorite-quartz-muscovite schist; quartz-muscovite veining
72-75	Weathered albite-quartz-mica rock; quartz±muscovite veining
75-86	Slightly weathered albite-quartz-mica rock
86-87	Albite-quartz-mica rock with disseminated pyrite; biotite and pyrite on joints
87-88	Albite-quartz-mica rock
88-90	Weathered albite-quartz-mica rock with quartz-mica veining
90-100	Albite-quartz-mica rock, locally with quartz-mica veinlets
EOH	

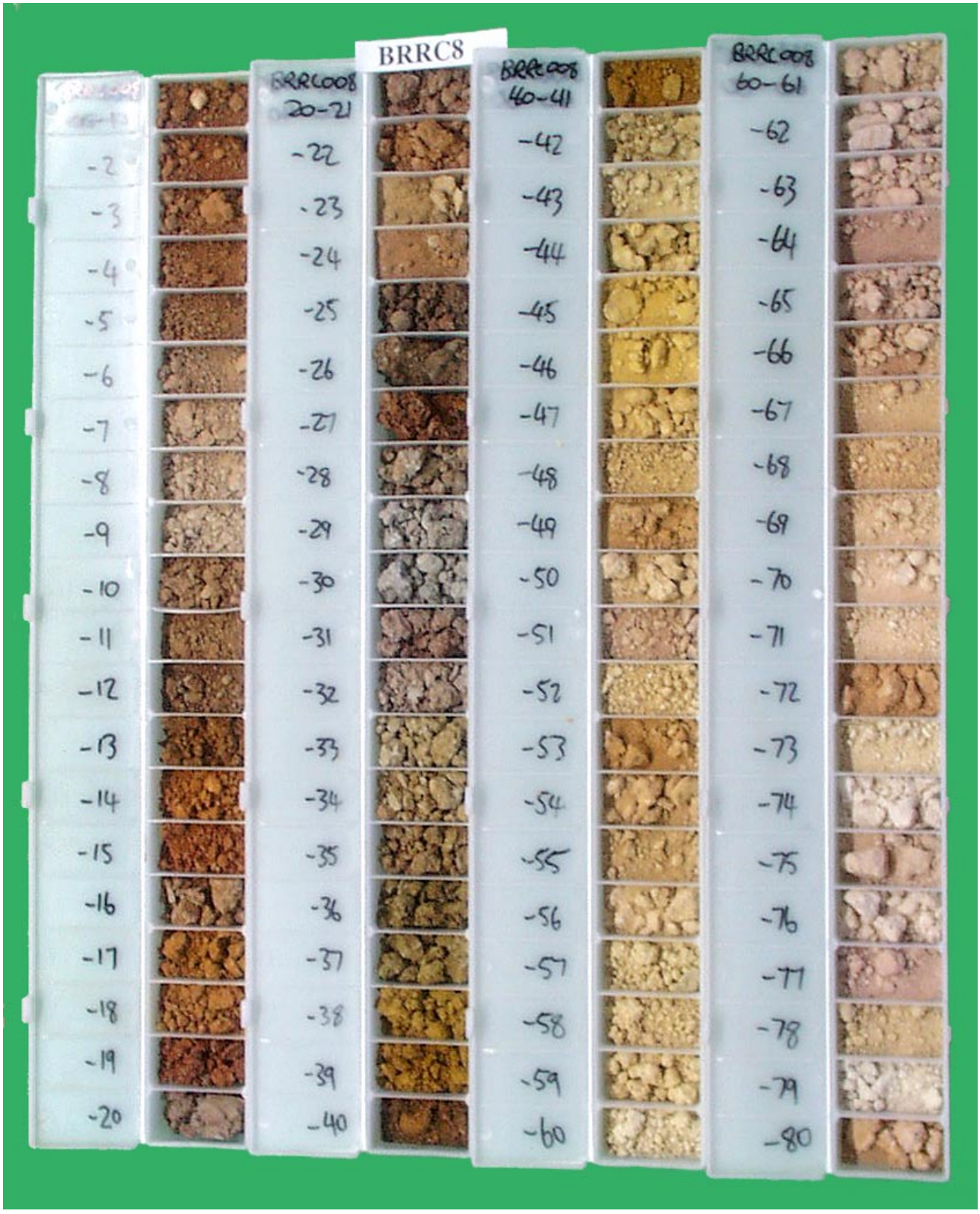

BRRC7

BRRC7

6388904N 427639E

0-3	Pale orange-brown; nodular calcrete; some gravel (quartz, siltstone) at 2-3 m
3-4	Very pale greyish orange-brown; gravel (quartz, siltstone, chert pebbles) in calcareous matrix; calcrete nodules
4-7	Very pale greyish brown; nodular calcrete; the amount of calcrete appears to decrease with depth
7-9	Pale greyish brown; silcrete
9-13	Pale greyish yellow-brown; white/cream chalcedony, purple-brown siliceous-ferruginous material, yellow-brown clays, and weathered micaceous lithological fragments
	BASE OF TRANSPORTED COVER
13-17	Pale greyish yellow-brown to greyish red-brown greasy clays; with chalcedony, ferruginous fragments and chert (?contamination)
17-21	White strongly weathered shale
21-24	Pale grey strongly weathered shale
24-25	White to very pale grey, strongly weathered shale
25-29	Grey to dark grey, strongly weathered shale
29-31	Very pale grey, strongly weathered shale
31-36	Pale grey to pale greyish orange-brown weathered shale; weakly ferruginous at 32-33 m; ferruginisation on joints
36-40	Generally fresh argillaceous rock, in part shale, in part coarser-grained and pyritic
40-41	Grey argillaceous rock with mica and disseminated pyrite
41-46	Grey, fine-grained, relatively siliceous, with disseminated pyrite and mica on joint planes
46-47	Slightly more weathered, relatively pyritic interval with quartz veinlets
47-48	Pale grey argillaceous rock with cherty layers; locally with muscovite and disseminated pyrite
48-49	Weakly foliated albite-quartz-mica rock and chert
49-50	Chert
50-60	Pale grey siliceous rock, locally with muscovite bands and minor disseminated pyrite
60-64	Pale grey to white argillaceous rock
64-66	Siliceous rock with disseminated pyrite and biotite
66-82	Banded siliceous rock with minor disseminated pyrite; locally with muscovite-pyrite bands
82-86	Banded siliceous rock with more abundant pyrite and muscovite
86-90	Siliceous rock, locally with disseminated pyrite; rarely with muscovite on joints
90-92	Siliceous biotite-chlorite schist with disseminated pyrite; locally with argillaceous layers
92-94	Grey siliceous rock with disseminated pyrite; locally with relatively coarse-grained pyrite and mica on joints
94-100	Grey siliceous rock with disseminated pyrite; locally with relatively coarse-grained pyrite and micaceous bands

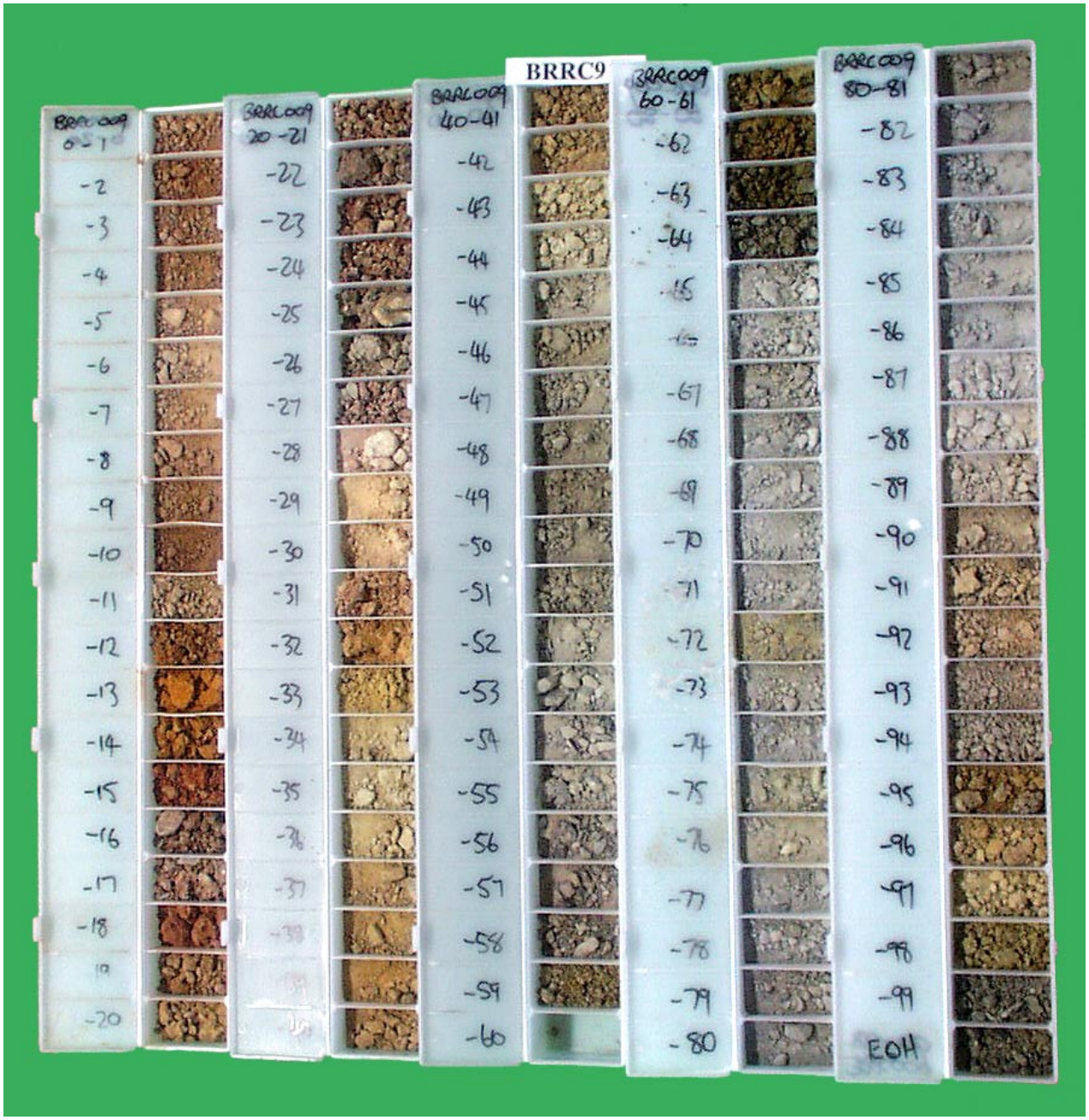
EOH


BRRCS
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC008
20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC008
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC008
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC8

6388784N 428240E

0-4	Pale greyish orange-brown; nodular to massive calcrete, becoming more siliceous with depth; quartz bearing gravels at 0-1 m
4-6	Pale greyish orange-brown; silcrete
6-9	Very pale orange-brown; silcrete with white to grey chalcedony
9-12	Pale greyish purple-brown; clays and chalcedony
12-13	Yellow-brown; gravel (quartz, ferruginous material, chalcedony, siltstone)
13-14	Orange-brown; ferruginous fragments and chalcedony (?contamination)
14-15	Orangey red-brown; orange-brown/red-brown ferruginous material and chalcedony (?contamination)
15-16	Orange-brown/grey/pale green/red-brown plastic mottled clays and chalcedony (?contamination)
16-17	Orangey yellow-brown clays and minor yellow-brown to orange-brown ferruginous material; chalcedony (?contamination)
17-19	Brick-red/grey/yellow-brown/orange-brown plastic mottled clays with chalcedony (?contamination)
19-20	Red-brown/grey plastic mottled clays
20-21	Red-brown/grey/orange-brown plastic mottled clays
21-22	Orange-brown/pale green/red-brown/grey plastic mottled clays
22-23	Orange-brown/pale green/grey plastic mottled clays
23-24	Orange-brown/red-brown/grey/pale green plastic mottled clays
24-26	Grey-green/red-brown/orange-brown plastic mottled clays
26-27	Orange-brown/red-brown/grey plastic mottled clays
27-28	Grey/red-brown plastic mottled clays
28-30	Bluish grey plastic clays
30-31	Red-brown/grey plastic mottled clays
31-32	Grey/red-brown plastic mottled clays
32-35	Grey/yellow-brown/orange-brown/red-brown plastic mottled clays
35-37	Yellow-green/orange-brown/grey plastic weakly mottled clays
37-41	Yellow-brown, purple-brown and grey sandy clays
41-42	Pale yellowish grey-green; clays, quartz and yellow-brown, weathered lithic fragments BASE OF TRANSPORTED COVER
42-48	Pale yellowish grey-green, yellow-brown, lemon-yellow and greyish yellow-brown; weathered, friable quartz-mica±albite rock, locally with quartz veinlets
48-56	Reddish brown, yellowish brown and orange brown clays with friable quartz-mica±albite rock and quartz veinlets
56-60	Pale greyish yellow-brown albite-quartz-mica rock
60-74	Pale pinkish brown saccharoidal rock with disseminated chlorite/muscovite; possibly dolomite
74-86	Very pale yellow-brown, orange-brown and red-brown to white kaolinitic clays with weathered albite-quartz-mica rock
86-90	Pale pinkish brown to pale yellow-brown kaolinitic clays with quartz veinlets
90-92	White to pale pinkish brown clays with albite-quartz-mica rock
92-100	White to pale pinkish brown kaolinitic clays with quartz veinlets
EOH	


BRRC9
BRRC009 0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC009 20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC009 40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC009 60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80
BRRC009 80-81
-82
-83
-84
-85
-86
-87
-88
-89
-90
-91
-92
-93
-94
-95
-96
-97
-98
-99
EOH

BRRC9

6388437N 428228E

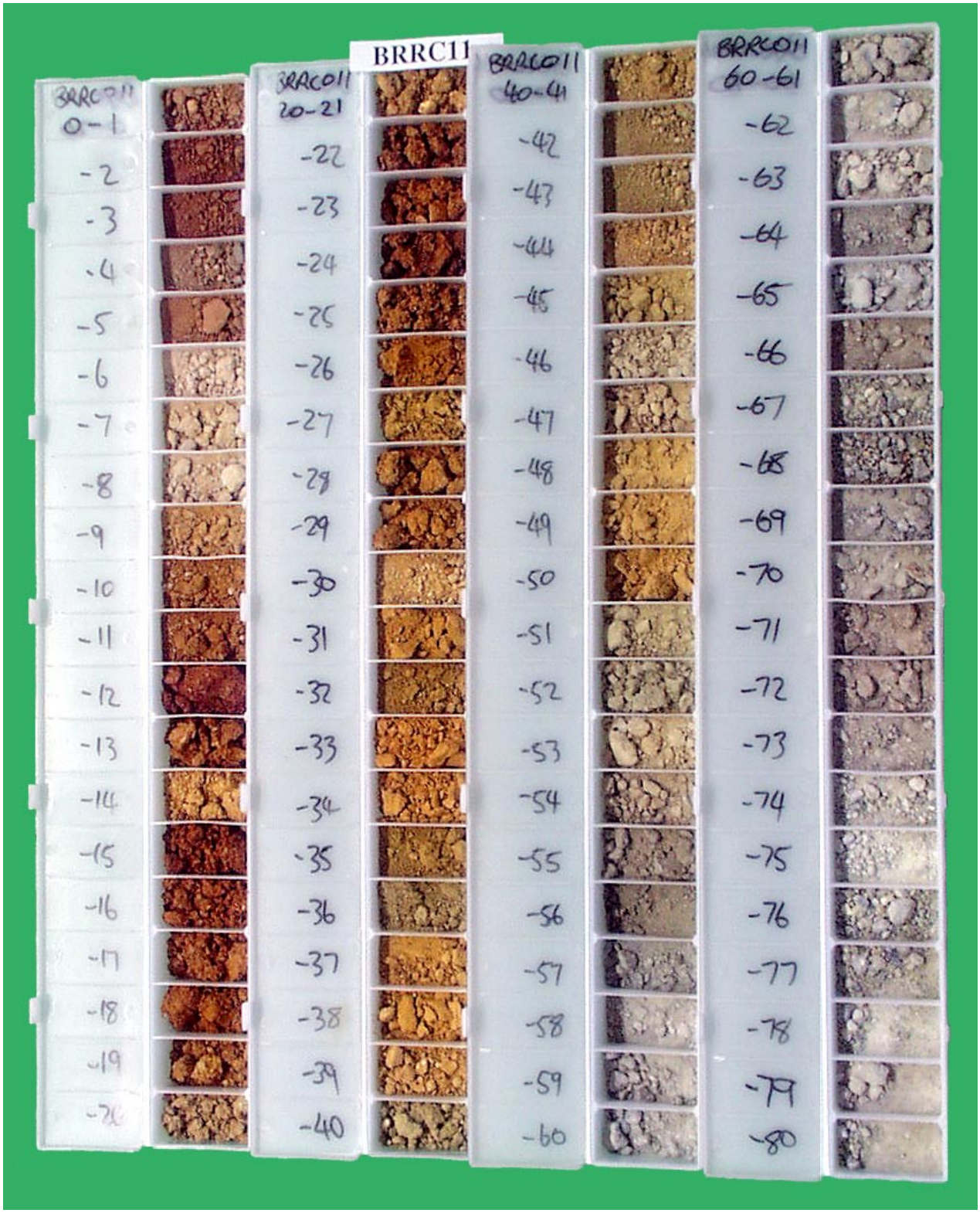
0-1	Greyish orange-brown; nodular calcrete; some quartz fragments
1-4	Pale greyish orange-brown; silcrete and minor calcrete
4-8	Very pale greyish orange-brown; silcrete, minor calcrete and chalcedony
8-9	Pale greyish orange-brown; silcrete and gravels (quartz, ferruginous lithic fragments)
9-10	Greyish orange-brown; gravels (ferruginous lithic fragments and minor quartz)
10-11	Pale greyish orange-brown; clays and chalcedony
11-12	Orange-brown/white mottled clays and chalcedony
12-14	Orangey yellow-brown, weakly mottled clays and chalcedony
14-15	Brick-red/yellow-green/grey plastic mottled clays
15-17	Red-brown/grey-green plastic mottled clays
17-18	Orange-brown/red-brown/pale grey green plastic mottled clays
18-20	Orange-brown/grey plastic mottled clays
20-21	Red-brown/pale grey-green plastic mottled clays
21-24	Red-brown/grey-green/white plastic mottled clays
24-25	Grey-green/red-brown/yellow-brown plastic mottled clays
25-26	Pale grey-green/red-brown plastic mottled clays
26-28	Red-brown/pale yellow-green/grey plastic mottled clays
28-29	Very pale orange-brown; white and orange-brown to yellow-brown lithic fragments and chalcedony
	BASE OF TRANSPORTED COVER
29-36	Weathered saccharoidal rock with disseminated vermiculite/mica; Fe oxides on joints
36-40	Weathered saccharoidal rock with disseminated mica and pyrite; Fe oxides on joints
40-43	Weathered saccharoidal rock with disseminated mica; Fe oxides on joints
43-45	Slightly weathered siliceous rocks with micaceous domains; locally with disseminated pyrite or Fe oxides after pyrite
45-58	Albite-quartz-mica rock with minor disseminated pyrite; locally with Fe oxides on joints
58-59	Weathered saccharoidal rock with disseminated mica/chlorite
59-60	*missing sample*
60-63	Variably weathered carbonate rock with minor disseminated pyrite and tremolite
63-66	Fresh carbonate rock with disseminated pyrite
66-68	Carbonate rock with disseminated biotite and tremolite
68-98	Carbonate rock with disseminated pyrite; very locally with pyritic quartz veinlets
98-100	Carbonate rock with disseminated biotite; rare disseminated pyrite
EOH	


BRRC10
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC10

6388172N 428820E

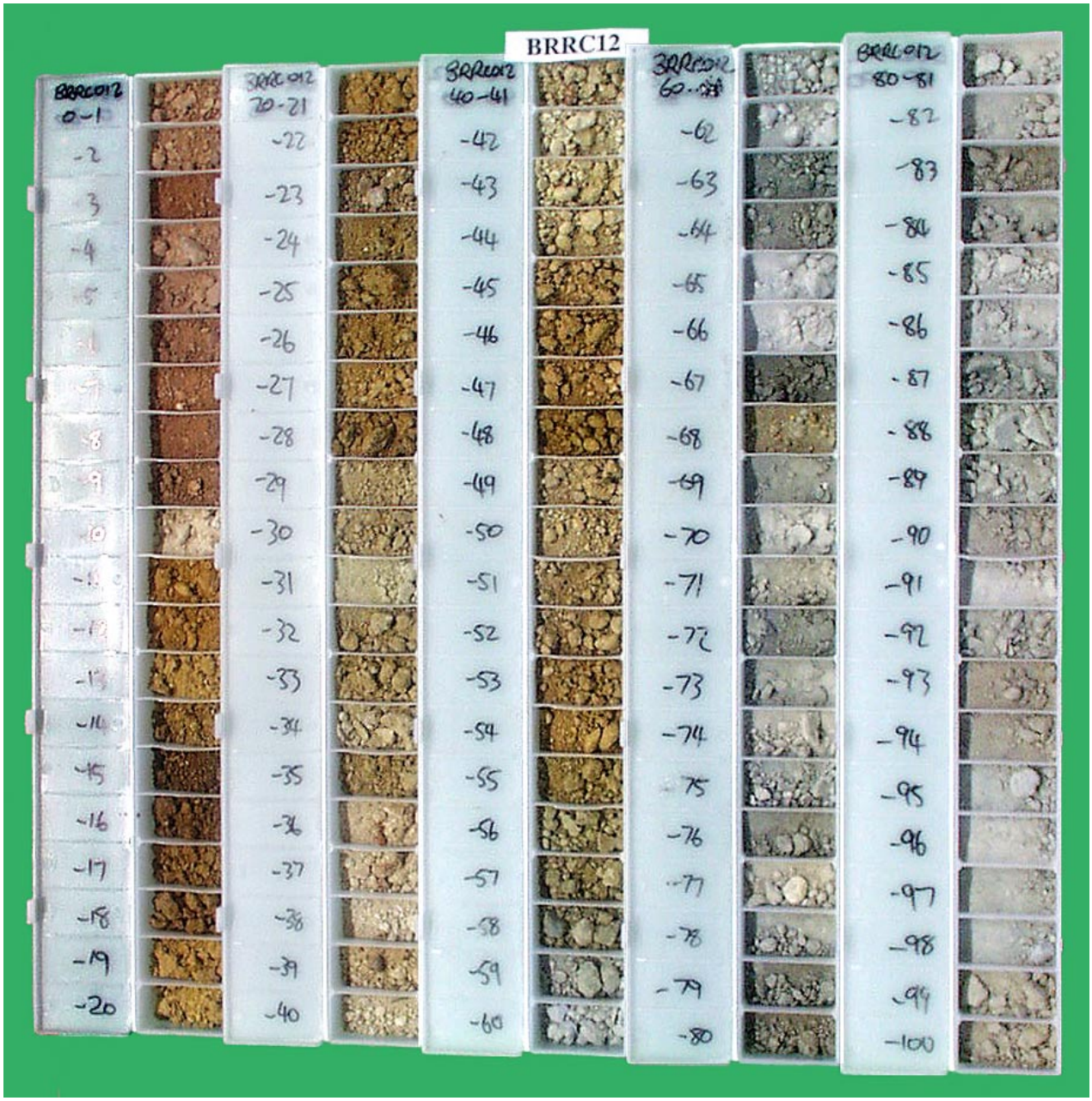
0-3	Greyish brown; calcrete/silcrete; minor quartz
3-5	Very pale greyish brown; silcrete
5-7	Very pale greyish purple; buckshot gravels cemented by silcrete
7-8	Pale greyish yellow-brown; quartz-rich gravels with minor buckshot gravel
	BASE OF TRANSPORTED COVER
8-10	Greyish brown-orange vermiculite-rich clays
10-13	Pale greyish yellow-brown vermiculite-rich clays
13-15	White grey, gritty vermiculite-rich clays
15-16	Pale greyish yellow-brown vermiculite-rich clays
16-17	Orangey yellow-brown, gritty vermiculite-rich clays
17-18	White, gritty, vermiculite-rich clays
18-19	Very pale greyish yellow-brown, gritty vermiculite-rich clays
19-20	White, gritty vermiculite-rich clays
20-22	Very pale grey-green vermiculite-rich clays
22-26	Very pale yellow-brown vermiculite-rich clays
26-28	White vermiculite-rich clays
28-31	Very pale yellow-brown vermiculite-rich clays
31-32	Pale yellowish grey-green vermiculite-rich clays
32-36	Pale grey-green vermiculite-rich clays
36-38	Very pale yellowish grey-green vermiculite-rich clays
38-40	White to cream vermiculite-rich clays
40-41	Pale yellow-brown vermiculite-rich clays
41-46	Pale yellowish grey-green; carbonate rock with disseminated chlorite and muscovite/vermiculite; becoming chloritic with depth
46-54	Schistose carbonate unit with disseminated chlorite/biotite and, locally, pyrite
54-55	Carbonate rock with disseminated chlorite/muscovite
55-61	Carbonate rock with disseminated sulphides and mica
61-68	Relatively coarse-grained carbonate rock with disseminated chlorite and sulphide
68-72	Relatively coarse-grained carbonate rock with disseminated chlorite, sulphide and serpentine
72-74	Schistose zone with chlorite/biotite; minor quartz veinlets
74-77	Relatively coarse-grained carbonate rock with disseminated chlorite/biotite and, locally, sulphide
77-78	Schistose zone with chlorite
78-80	Relatively coarse-grained carbonate rock with serpentine.
EOH	


BRRC11
BRRC11
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC11
20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
BRRC11
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC11
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC11

6388075N 428815E

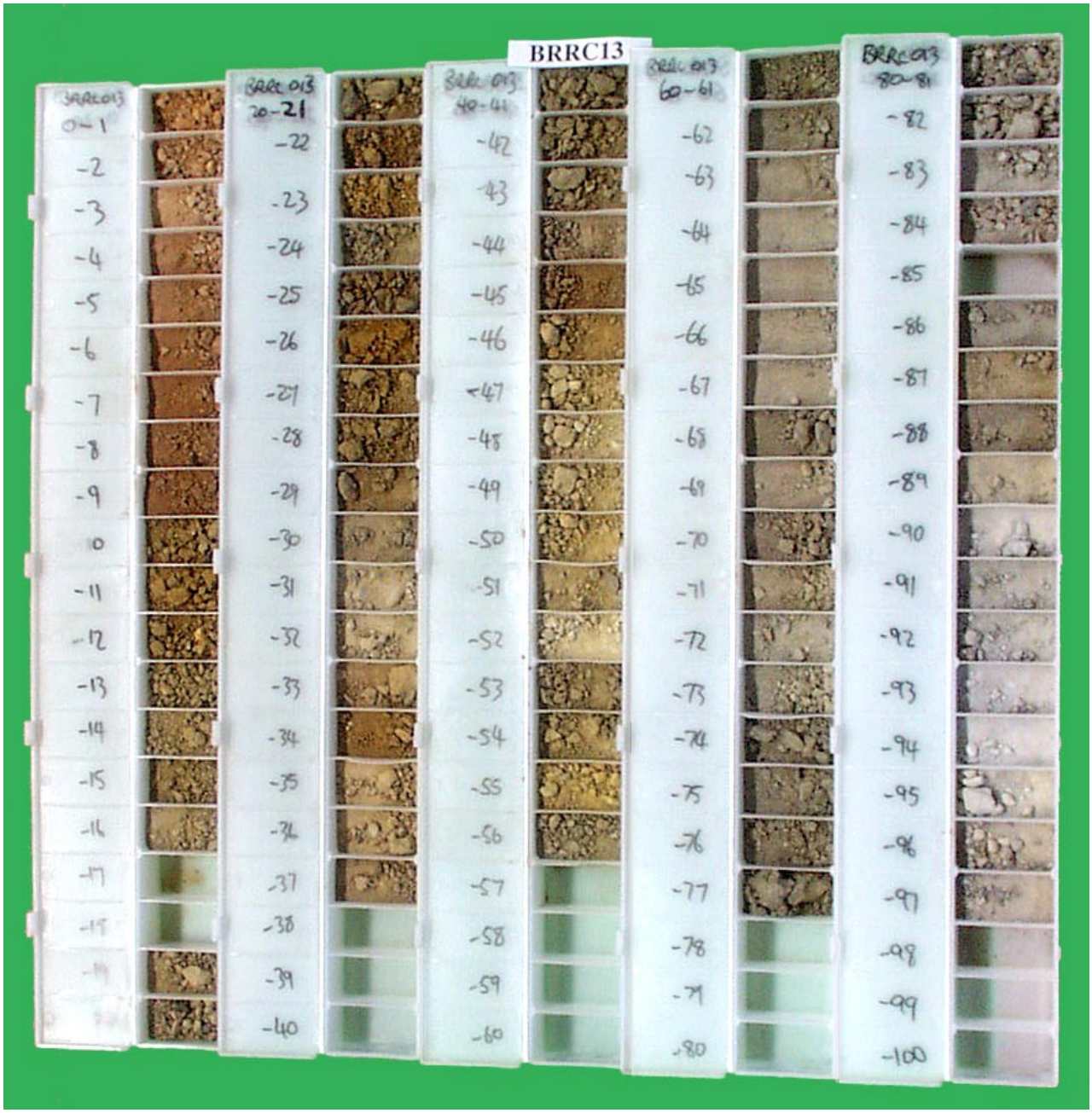
0-1	Pale greyish orange-brown; calcrete/silcrete; some quartz
1-3	Pinkish brown; gravels (quartz, buckshot gravel, rounded ferruginous lag) cemented by calcrete/silcrete
3-5	Pale pinkish brown; silcrete and calcrete; buckshot gravel at 3-4 m
5-6	Very pale orange-brown; clays and chalcedony
6-8	Very pale greyish orange-brown; clays and chalcedony
8-10	Greyish yellow-brown to greyish orange-brown; clays and chalcedony
10-11	Greyish orange-brown; clays with chalcedony (?contamination)
11-12	Orange-brown/red-brown weakly mottled clays
12-13	Yellow-brown clays with emerald-green mottles
13-14	Pale yellow-brown clays with emerald-green mottles
14-18	Orange-brown clays with yellow-green to emerald-green mottles
18-19	Greyish yellow-brown clays with emerald-green/green mottles
	BASE OF TRANSPORTED COVER
19-21	Pale yellowish grey-green vermiculite-rich clays
21-25	Greyish red-brown vermiculite-rich clays
25-26	Orangey yellow-brown vermiculite-rich clays
26-31	Yellowish grey-green vermiculite-rich clays
31-32	Yellowish olive-green vermiculite-rich clays
32-34	Orange-brown vermiculite-rich clays
34-35	Yellowish olive-green vermiculite-rich clays
35-36	Grey-green vermiculite-rich clays
36-37	Pale greenish yellow-brown vermiculite-rich clays
37-39	Orange-brown vermiculite-rich clays; quartz veinlets at 38-39 m
39-40	Yellowish grey-green vermiculite-rich clays; quartz veins with minor Fe oxides after pyrite
40-41	Pale greyish yellow-brown vermiculite-rich clays
41-43	Olive-green vermiculite-rich clays
43-44	Pale greyish brown vermiculite-rich clays; quartz veining with rare disseminated Fe oxides after pyrite
44-45	Yellowish olive-green vermiculite-rich clays; rare quartz veinlets
45-46	Very pale grey-green; weathered carbonate rock
46-47	Very pale greenish grey; weathered carbonate rock
47-49	Yellowish grey green vermiculite-rich clays
49-51	Carbonate rock with disseminated chlorite/biotite
51-53	Carbonate rock with serpentine
53-55	Carbonate rock with disseminated biotite and sulphide
55-61	Carbonate rock with disseminated sulphide; some serpentine at 60-61 m
61-69	Carbonate rock with serpentine; locally with chlorite/biotite, sulphides (pyrite, chalcopyrite) and tremolite
69-73	Carbonate rock with chlorite/biotite
73-79	Relatively serpentine-rich carbonate rock, with disseminated chlorite/biotite and sulphide
EOH	


BRRC12

BRRC12

6388324N 428821E

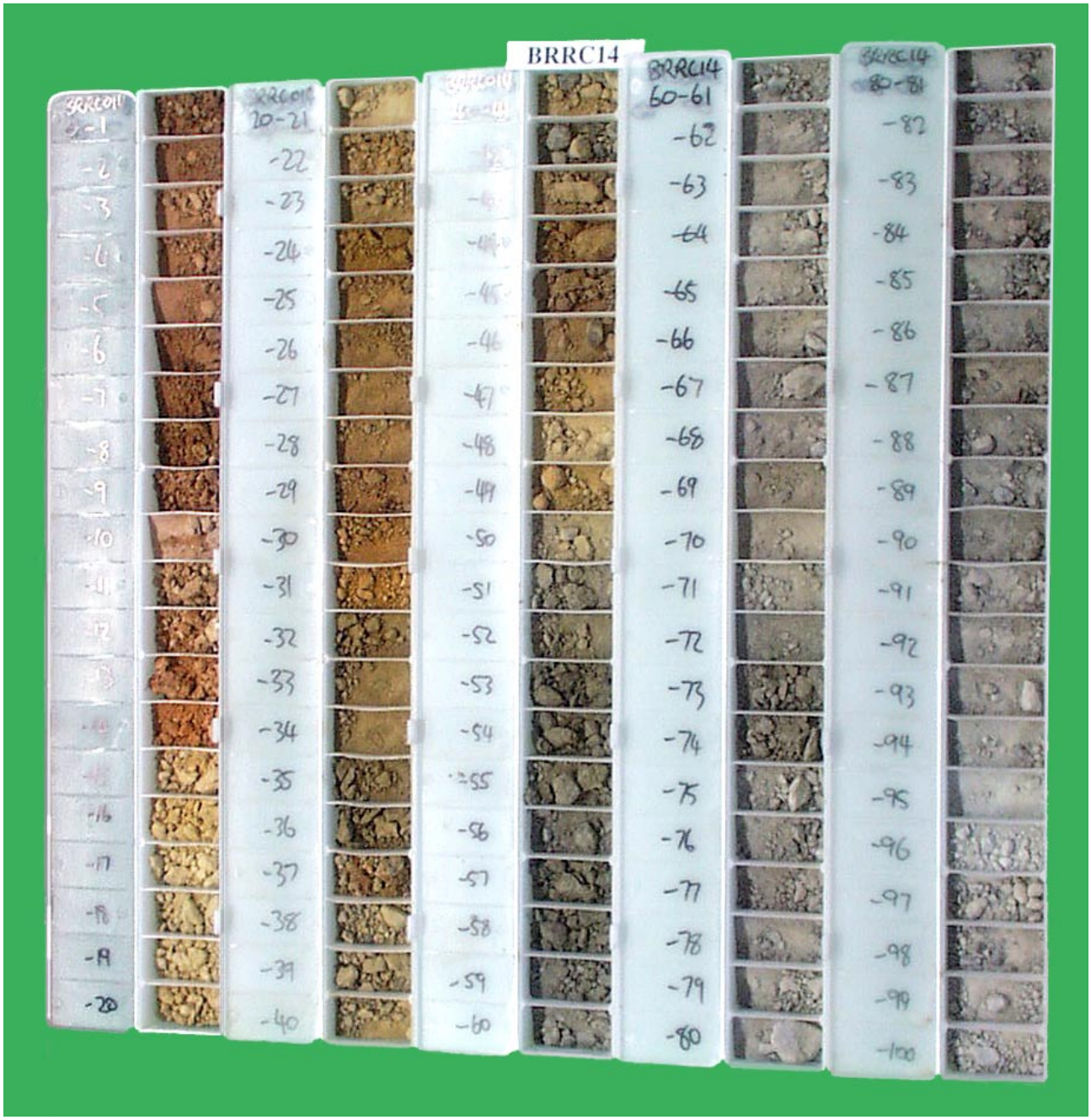
0-3	Pale orange-brown; calcrete/silcrete
3-8	Pinkish brown; silcrete and calcrete, cementing gravels (quartz, buckshot gravel) at 5-8 m
8-9	Pinkish brown; gravel (quartz, buckshot gravel) and chalcedony
9-14	Pale greyish yellow-brown to greyish yellow-brown clays (locally with emerald-green mottles) with chalcedony
	BASE OF TRANSPORTED COVER
14-18	Greyish brown to greyish yellow-brown clays and strongly weathered lithic fragments
18-20	Pale yellow-brown clays
20-22	Greyish yellow-brown clays, vermiculite-bearing at 21-22 m
22-23	Pale grey-green; weathered albite-quartz-mica rock
23-27	Yellowish grey-green; weathered albite-quartz-mica rock
27-28	Greenish yellow-brown; weathered albite-quartz-mica rock
28-29	Cream; soft, weathered carbonate rock
29-35	Pale grey-green; soft, weathered carbonate rock
35-38	Pale grey to white; soft, weathered carbonate rock
38-39	Pale greyish-brown; weathered carbonate rock
39-45	Pale yellow-green; weathered serpentine-bearing carbonate rock
45-48	Greyish yellow-brown; weathered carbonate rock
48-50	Pale greyish yellow-brown; weathered serpentine-bearing carbonate rock
50-57	Pale yellowish grey-green to pale greyish brown; soft (?talcose), weathered carbonate rock
57-59	Grey; weathered carbonate rock; Fe oxides on joints
59-64	Generally fresh carbonate rock with fine-grained disseminated sulphide and chlorite/biotite
64-66	Coarser-grained carbonate rock with disseminated sulphide, tremolite and chlorite/biotite
66-67	Biotite/chlorite-rich zone with disseminated sulphide
67-68	Slightly weathered carbonate rock with disseminated sulphide; Fe oxides on joints
68-71	Carbonate rock with disseminated sulphide and chlorite/biotite
71-72	Carbonate rock with pyritic quartz veinlets
72-100	Carbonate rock with disseminated sulphide and chlorite/biotite; locally with tremolite and serpentine
EOH	


BRRC13

BRRC13

6388529N 428829E

0-2	Orange-brown; calcrete/silcrete
2-5	Greyish pink-brown; silcrete/calcrete; at 4-5 m with chalcedony veinlets and cemented quartz sands
5-7	Greyish pink-brown; silcrete with chalcedonic veinlets cementing silcrete; partly contaminated by drilling foam
7-9	Greyish pink-brown; gravels (quartz, siltstone, rare ferruginous material) cemented by silcrete BASE OF TRANSPORTED COVER
9-12	Yellowish grey-brown; vermiculite-bearing clays and weathered albite-quartz-mica rock
12-16	Yellowish grey-green; weathered albite-quartz-mica rock with casts after weathered sulphide
16-20	*missing samples*
20-22	Weathered albite-quartz-mica rock with Fe oxides on joints and rare casts after pyrite; very rare quartz veinlets
22-23	Yellowish grey-brown; weathered albite-quartz-mica rock
23-25	Almost fresh albite-quartz-mica rock; Fe oxides on joints
25-29	Greenish yellow-brown to pale grey-green; gritty micaceous/vermiculitic clays
29-31	Weathered grey siltstone; biotite and traces of pyrite on bedding planes; Fe oxides on joints and fractures
31-32	Weathered albite-quartz-mica rock; Fe oxides after pyrite; Fe oxides on joints and fractures
32-37	Weathered grey, micaceous siltstone; Fe oxides on joints and fractures
37-40	*missing samples*
40-43	Pale, grey-green, gritty, micaceous/vermiculitic clays, locally with grey siltstone
43-45	Grey micaceous siltstone; Fe oxides on joints and fractures
45-46	Weathered interval; siltstone with quartz veining (and silicification haloes); Fe oxides on joints and fractures
46-55	Micaceous siltstone, locally with quartz veinlets and Fe oxides after disseminated pyrite
55-56	Micaceous siltstone with minor Fe oxides on joints and fractures
56-60	*missing samples*
60-62	Biotite±chlorite-rich schist
62-70	Micaceous siltstone
70-78	Siliceous rock with disseminated sulphide and mica/chlorite
78-80	*missing samples*
80-84	Siliceous rock with disseminated sulphide and mica/chlorite
84-85	*missing sample*
85-89	Siliceous rock with disseminated mica/chlorite and minor sulphide
89-92	Carbonate rock with disseminated sulphide and biotite; quartz veining
92-99	Siliceous rock with disseminated mica/chlorite and pyrite
99-100	*missing sample*
EOH	


BRRC14
BRRC14
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80
-82
-83
-84
-85
-86
-87
-88
-89
-90
-91
-92
-93
-94
-95
-96
-97
-98
-99
-100

BRRC14

6388633N 428828E

0-2	Pale greyish orange-brown; calcrete/silcrete
2-3	Greyish pink-brown; gravels (quartz, buckshot gravel, siltstone) cemented by silcrete/calcrete
3-6	Pale pinkish grey-brown; silcrete; locally with quartz
6-8	Greyish pink-brown; gravels (quartz, buckshot gravel, ferruginous material) cemented by silcrete
8-9	Pale greyish pink-brown; clays and chalcedony; some ferruginous material
9-10	Pale red-brown; clays and chalcedony; some red-brown ferruginous material
10-11	Pale purplish grey/white mottle clays
	BASE OF TRANSPORTED COVER
11-13	Pale greyish orange-brown; white to pale green albite-quartz-mica rock; quartz veinlets at 12-13 m
13-14	Pale orange-brown; white albite-quartz-mica rock
14-15	Very pale yellow-brown; white albite-quartz-mica rock
15-16	Pale greyish yellow-brown; albite-quartz-mica rock
16-20	Very pale greyish yellow-brown; albite-quartz-mica rock
20-21	Pale greyish yellow; weathered albite-quartz-mica rock
21-23	Weathered pale grey albite-quartz-mica rock; Fe oxides on joints and fractures
23-24	Yellow-brown; gritty vermiculite/mica-rich clays
24-25	Yellowish grey-brown; gritty vermiculite/mica-rich clays
25-29	Pale grey-brown; gritty vermiculite/mica-rich clays
29-31	Grey-brown; gritty vermiculite/mica-rich clays
31-36	Olive-green; vermiculite-rich clays
36-41	Weathered albite-quartz-mica rock with Fe oxides on joints and fractures
41-43	Slightly fresher albite-quartz-mica rock; Fe oxides on joints and fractures
43-47	Greyish yellow-brown; weathered albite-quartz-mica rock
47-48	Pale yellowish grey; weathered albite-quartz-mica rock
48-49	Greyish yellow-brown; weathered albite-quartz-mica rock
49-50	Yellow-green; weathered albite-quartz-mica rock
50-51	Grey-green; slightly weathered albite-quartz-mica rock
51-52	Yellowish grey-green; weathred albite-quartz-mica rock
52-54	Grey-green; slightly weathered albite-quartz-mica rock
54-74	Fresh albite-quartz-mica rock; banded
74-77	Carbonate rock with disseminated biotite/chlorite
77-80	Carbonate rock with disseminated pyrite and minor serpentine and muscovite
80-84	Carbonate rock with disseminated biotite and tremolite; minor zones of disseminated sulphide; traces of serpentine; very rare quartz veinlets
84-100	Carbonate rock with disseminated sulphide; locally with serpentine and tremolite
EOH	


BRRC15
BRRC15 0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC15 20-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC15 60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80
BRRC15 80-81
-82
-83
-84
-85
-86
-87
-88
-89
-90
-91
-92
-93
-94
-95
-96
-97
-98
-99
EOH

BRRC15

6388280N 428214E

0-1	Orange-brown; calcrete/silcrete and chalcedony
1-6	Orange-brown to red-brown; clays and chalcedony
6-7	Very pale orange-brown; clays and chalcedony
7-8	Orange-brown; clays with orange-brown and red-brown ferruginous material and chalcedony
8-9	Pale greyish yellow-brown; clays and chalcedony
9-10	White; clays and chalcedony
10-12	Orangey yellow-brown; clays and chalcedony (?contamination)
12-13	Brown-orange; sandy clays and chalcedony (?contamination)
13-14	Orange-brown; buckshot gravels and clays with chalcedony (?contamination)
14-15	Red-brown/grey/white plastic weakly mottled clays with chalcedony (?contamination)
15-16	Brick-red/grey plastic mottled clays
16-17	Red-brown/grey plastic mottled clays
17-18	Brick-red/pale grey-green plastic mottled clays
18-20	Orange-brown/grey-green/white plastic mottled clays
20-21	Orange-brown/grey; plastic weakly mottled clays
21-22	Orange-brown/red-brown/grey plastic mottled clays
22-23	Purple-brown/pale grey-green plastic mottled clays
23-25	Red-brown/grey-green plastic mottled clays
25-30	Grey plastic clays
30-36	Grey to white plastic clays
36-40	White clays
40-42	White to pale yellow-brown sandy clays with quartz fragments
	BASE OF TRANSPORTED COVER
42-47	Pale yellow-brown, weathered albite-quartz-mica rock; locally schistose; fine-grained muscovite on foliation planes; Fe oxides on joints and fractures
47-49	Weathered albite-quartz-mica rock; Fe oxides on joints and fractures
49-51	Fresh albite-quartz-mica rock
51-100	Carbonate rock with disseminated pyrite and mica, locally with tremolite; zones of minor weathering at 58-60 m and 62-64 m
EOH	


BRRC16
BRRC016
0-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
BRRC016
40-41
-42
-43
-44
-45
-46
-47
-48
-49
-50
-51
-52
-53
-54
-55
-56
-57
-58
-59
-60
BRRC016
60-61
-62
-63
-64
-65
-66
-67
-68
-69
-70
-71
-72
-73
-74
-75
-76
-77
-78
-79
-80

BRRC16

6388187N 428219E

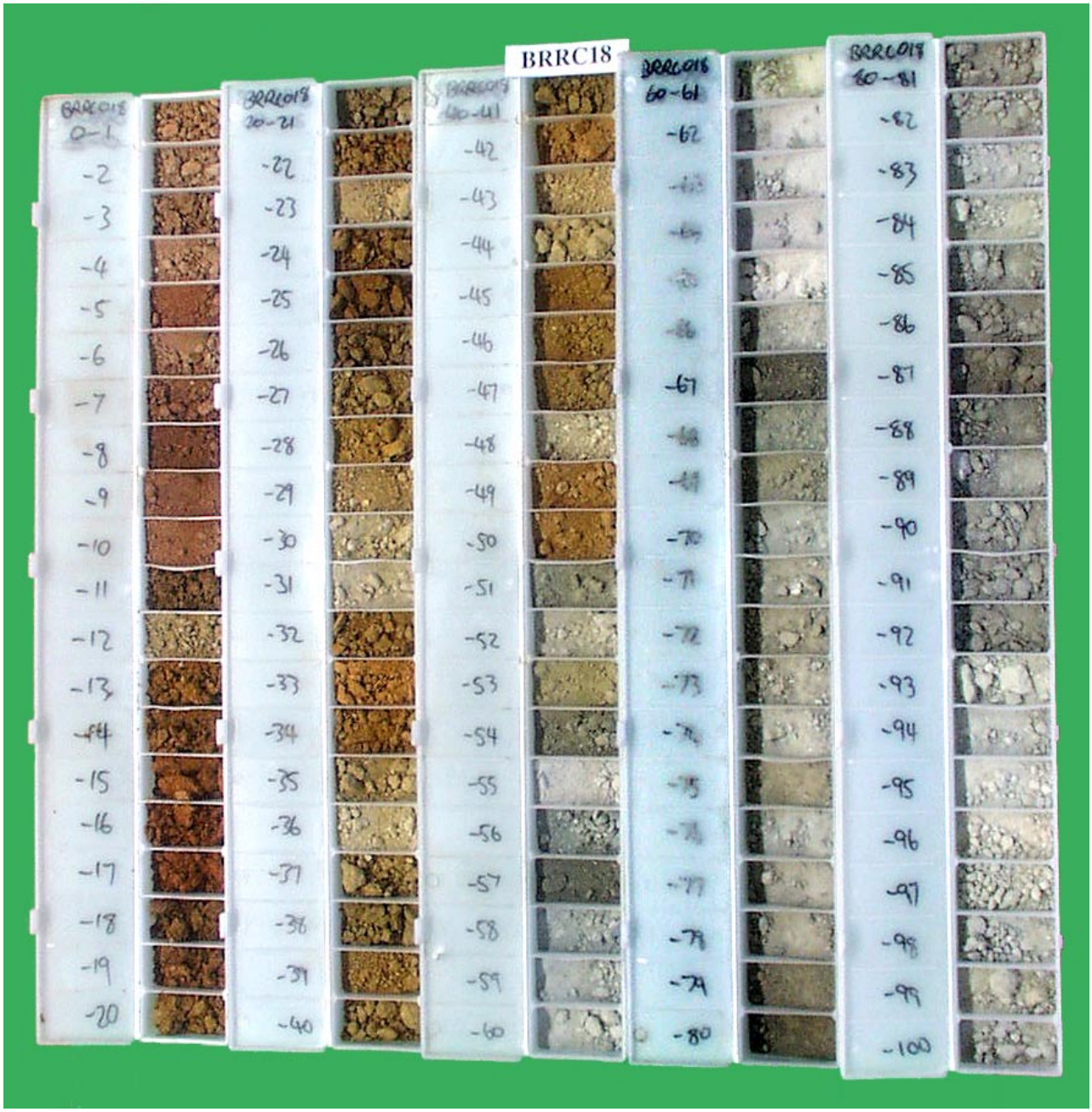
0-1	Orange-brown; calcrete/silcrete with colluvial quartz gravels
1-3	Pale orange-brown; silcrete/calcrete; minor colluvial quartz gravel at 1-2 m
3-6	Pale greyish orange-brown; silcrete, with gravels (quartz, siltstone) cemented by silcrete
6-7	Pale orange-brown; clays with chalcedony and minor silcrete
7-11	Pale orange-brown; clays with chalcedony and orange-brown siliceous-ferruginous material
11-12	Very pale greyish orange-brown; clays and chalcedony
12-14	Orange-brown to greyish yellow-brown clays
14-15	Orange-brown/red-brown/grey plastic mottled clays
15-18	Red-brown/grey plastic mottled clays
18-19	Orange-brown/grey plastic mottled clays
19-20	Greyish yellow-brown/orange-brown/grey-green plastic mottled clays
20-22	Orange-brown/red-brown/grey weakly mottled clays
22-25	Purple-brown/red-brown/grey plastic mottled clays
25-26	*missing sample*
26-28	Red-brown/pale grey-green/white plastic mottled clays
28-38	Grey to white plastic clays, locally with quartz fragments
	BASE OF TRANSPORTED COVER
38-39	Yellow-green plastic clays with quartz fragments
39-40	Yellow-green/brown-orange plastic mottled clays
40-41	Brown-orange/red-brown weakly mottled clays with coarse-grained, emerald-green vermiculite-rich clay
41-43	Pale greyish yellow-brown, in part plastic and vermiculite-rich; locally with emerald-green vermiculite-rich clay
43-44	Greyish brown vermiculite-rich clays, locally with emerald-green vermiculite-rich clay
44-45	Greenish yellow-brown vermiculite-rich clays
45-46	Pale pinkish brown vermiculite-rich clays
46-49	Pale greyish yellow-brown vermiculite-rich clays; rare quartz veinlets
49-50	Very pale grey-green vermiculite-rich clays
50-57	Olive-green; soft muscovite/vermiculite- and chlorite-rich schist; locally with quartz veinlets
57-58	Zone of quartz veining; coarse-grained muscovite and chlorite and Fe oxides after pyrite in vein selvedges
58-59	Very pale grey-green; silicified zone with mica and minor disseminated pyrite
59-63	Olive-green; soft chloritic/biotitic schist with minor quartz veinlets
63-67	Carbonate rock with disseminated mica, chlorite, serpentine and sulphide; minor quartz veinlets
67-78	Carbonate rock with serpentine and quartz veinlets
78-79	Slightly weathered carbonate rock with serpentine
79-80	Carbonate rock with serpentine and disseminated sulphide
EOH	


BRRC17
BRRC17 0-1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 -20
BRRC17 20-21 -22 -23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33 -34 -35 -36 -37 -38 -39 -40
-41 -42 -43 -44 -45 -46 -47 -48 -49 -50 -51 -52 -53 -54 -55 -56 -57 -58 -59 -60
BRRC17 60-61 -62 -63 -64 -65 -66 -67 -68 -69 -70 -71 -72 -73 -74 -75 -76 -77 -78 -79 -80

BRRC17

6388086N 428214E

0-3	Pale orange-brown; nodular to massive calcrete; colluvial gravels (quartz, siltstone) at 0-1 m
3-4	Pale greyish orange-brown; silcrete
4-6	Very pale greyish orange-brown; silcrete; some chalcedony at 5-6 m
6-7	Pale orangey grey; clays and chalcedony; minor silcrete
7-10	Pale yellowish orange-brown; clays and chalcedony
10-11	Orange-brown/grey weakly mottled clays
11-12	Greyish yellow-brown/orange-brown weakly mottled clays
12-13	Red-brown/orange-brown/grey plastic mottled clays
13-14	Red-brown/grey plastic mottled clays
14-15	Red-brown/pale grey-green plastic mottled clays
15-16	Red-brown/grey plastic mottled clays
16-17	Grey plastic clays
17-19	Brown-orange/grey plastic weakly mottled clays with orange-brown ferruginous material
19-20	Grey plastic clays
20-21	Red-brown/grey plastic mottled clays
21-22	Dark grey plastic clays
22-23	Pale grey/white/red-brown plastic mottled clays
23-24	Pale grey-green/grey plastic mottled clays
24-26	Grey sandy clays
26-27	Very pale greyish yellow-brown sandy clays
27-30	White to grey plastic clays
30-32	Grey plastic clays
32-33	Very pale yellow-green/orange-brown mottled plastic clays
	BASE OF TRANSPORTED COVER
33-34	Yellow-brown vermiculite-rich clays
34-36	Pale greyish yellow-brown vermiculite-rich clays
36-37	Greyish yellow-brown vermiculite-rich clays
37-38	Yellowish grey-green; weathered siliceous and biotitic rock with quartz-biotite veinlets
38-45	Olive-green; biotitic±chloritic schist; quartz veinlets at 38-40 m and 42-44 m
45-46	Yellowish brown, slightly weathered biotitic±chloritic schist with quartz-biotite veinlets
46-55	Slightly weathered, yellowish to orangey brown, olive-green, biotitic±chloritic schist
55-62	Fresh, pale grey-green biotite-chlorite-muscovite-quartz rock
62-64	Siliceous interval, with quartz-muscovite and quartz veining, and silicified zones, and biotitic schist
64-71	Biotitic schist, locally with quartz veinlets
71-75	Grey siliceous rock with disseminated biotite, chlorite and muscovite
75-76	Carbonate rock with biotite and rare disseminated sulphide
76-78	Zone of quartz veining; minor biotite and traces of sulphide
78-80	Carbonate rock with disseminated mica and minor quartz veinlets
EOH	


BRRC18

BRRC18

6388167N 428927E

0-2	Greyish orange-brown; calcrete/silcrete
2-4	Pale greyish orange-brown; clays and chalcedony; some silcrete/calcrete at 2-3 m
4-6	Greyish orange-brown; silcrete cementing buckshot gravels and minor quartz
6-9	Greyish brown; gravels (quartz, buckshot gravels, black ferruginous material)
9-10	Pinkish brown; gravels (quartz, buckshot gravels, black ferruginous material)
10-11	Greyish red-brown; clays and chalcedony
11-12	Very pale grey-green; clays and chalcedony
	BASE OF TRANSPORTED COVER
12-13	Greenish yellow-brown vermiculite-rich clays; some chalcedony (?contamination)
13-14	Yellow-brown vermiculite-rich clays
14-17	Red-brown vermiculite-rich clays
17-19	Greenish brown vermiculite-rich clays
19-20	Yellowish olive vermiculite-rich clays
20-21	Very pale grey-green vermiculite-rich clays
21-22	Yellowish brown vermiculite-rich clays, with siliceous veinlets
22-23	Pale greyish yellow-brown; weathered carbonate rock with serpentine
23-25	Yellowish olive; weathered, ferruginous, serpentine-bearing carbonate rock
25-26	Pale grey-green vermiculite-rich clays
26-28	Yellowish grey-green vermiculite-rich clays
28-29	Very pale yellow-brown; weathered carbonate rock, locally with serpentine
29-31	Zone of quartz veining; locally with serpentine
31-34	Yellow-brown vermiculite-rich clays
34-35	Pale grey-green vermiculite-/chlorite-rich clays
35-36	White vermiculite-rich clays with white fibrous tremolite/serpentine
36-41	Yellowish grey-green vermiculite-rich clays
41-43	Orange-brown weathered carbonate rock
43-44	Pale greyish orange-brown, weathered carbonate rock
44-45	Weathered ?serpentine-bearing carbonate rock
45-50	Orange-brown vermiculite-rich clays
50-51	Fresh, pale grey-green chloritic schist
51-52	Zone of quartz veining, locally with minor Fe oxides on joints and fractures
52-53	Carbonate rock
53-55	Carbonate rock with tremolite and disseminated sulphide
55-66	Carbonate rock with serpentine
66-67	Biotitic schist
67-79	Carbonate rock with tremolite; locally with quartz veinlets and disseminated sulphide
79-80	Biotitic schist
80-85	Carbonate rock with serpentine
85-88	Biotitic±chloritic schist
88-91	Carbonate rock with serpentine and tremolite
91-92	Biotitic±chloritic schist; minor quartz veining
92-99	Carbonate rock with serpentine
99-100	Carbonate rock with tremolite
EOH	

APPENDIX 4.
OLARY SILVER MINE

Appendix 4.1
Analyses of rock-chip samples

Appendix 4.1

Olary Silver Mine rock chips

						Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
						Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
						Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R
						LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05
Sample_no	Field_no	Northing	Easting	Error	Fraction	Description																	
R448437	OSR1	6433766	435845	3.7		pyritic quartz, locally with mgt; from mine dump	0.5	6100	53	640	490	610	90	10	1950	-0.1	40.5	390	6	0.7	300	3.1	1.4
R448438	OSR2	6433766	435845	3.7		pyrite-rich qv (locally with muscovite); from mine dump	1.4	1150	26.5	420	430		10	12	1100	0.2	21.5	150	8	0.3	750	3.5	1.4
R448439	OSR3	6433766	435845	3.7		mgt-rich qv with recrystallised/hydrothermally altered ironstone	0.2	100	8.5	360	390	370	15	15	410	-0.1	76	23	9	0.2	82	3.6	1.3
R448440	OSR4	6433753	435843	4.6		unaltered ironstone from ridge	0.1	25	5.5	200	190		70	4.4	550	-0.1	14.5	20.5	32	-0.1	72	2.5	0.85
	Eu	Fe	Ga	Gd	Hf	Hg	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3R	IC3E	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M
	0.02	100	0.1	0.05	1	0.05	0.02	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2
Sample_no																							
R448437	0.86	191000	7	3.9	-1	0.25	0.51	0.5	3750	23.5	0.21	750	400	6.5	2500	-5	20.5	68	70	20	-20	4.9	-0.2
R448438	0.67	81000	2.5	4.4	-1	-0.05	0.51	0.55	390	13	0.19	950	180	4.4	170	-5	14	41	45	15	-20	3.1	-0.2
R448439	1.6	303000	6.5	8.5	-1	-0.05	0.49	0.35	400	44	0.15	470	550	13	80	-5	47	14	20	10	-20	10	-0.2
R448440	0.43	454000	8.5	3.5	-1	-0.05	0.34	0.65	130	7.5	0.12	75	270	8.5	90	-5	10	14	210	15	-20	2.1	-0.2
	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn				
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E				
	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2				
Sample_no																							
R448437	22.5	76700	-0.5	5	5.5	2.6	16.5	0.46	2	1.7	370	0.6	0.2	0.63	21	0.9	16	1.6	24				
R448438	2.5	46000	-0.5	3.5	4.5	1.3	2.3	0.56	1.8	0.33	25	0.2	0.2	0.52	5	0.7	15.5	1.6	16				
R448439	3.3	4400	-0.5	0.5	13	1.5	2.9	0.76	1	0.22	40	0.2	0.15	0.26	19	0.4	14.5	1.25	37				
R448440	0.6	1000	-0.5	0.5	4	1.3	9.5	0.45	0.7	0.14	15	-0.1	0.1	0.92	27	0.3	8	1.05	56				

Appendix 4.2
Analyses of orientation soil samples

Appendix 4.2. Olary Silver Mine soils

						Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho
						Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
						Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R
						LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	100	0.1	0.05	1	0.02
Sample_no	Field_no	Northing	Easting	Error	Fraction	Description																							
R448091	OSS1	6433726	435808	5.2	-6mm	orbn, sandy soil with ironstone, fine-gnd qz and pegmatite lag; along strike from ironstone ridge	0.3	64800	5	6			350	0.4	4050	-0.1	54	9.5	30	2.3	58	2.3	1.05	1	37000	14.5	3.5	3	0.39
R446285	OSS1	6433726	435808	5.2	-6+2mm		-0.1	60000	3.5	10			350	0.5	2950	-0.1	48.5	10	25	2.5	58	2	0.9	0.86	50000	16	2.8	2	0.36
R446286	OSS1	6433726	435808	5.2	-2+0.5mm		-0.1	67300	3	9			420	0.5	3050	-0.1	43	9	22	2.3	46	1.75	0.75	0.89	33200	17.5	2.4	2	0.3
R446287	OSS1	6433726	435808	5.2	-0.5mm+180ic		-0.1	71300	3.5	7			330	0.3	3600	-0.1	69	9	31	2.2	38	2.3	0.9	1.05	36500	18.5	3.3	2	0.38
R446288	OSS1	6433726	435808	5.2	-180+75mic		-0.1	62000	3	10			290	0.3	3550	-0.1	65	10	34	2.8	52	2.6	1.2	1.05	40500	15	3.8	2	0.47
R446289	OSS1	6433726	435808	5.2	-75mic		0.4	73200	6	16			350	0.4	4600	0.1	97	14	43	4.9	77	4.2	1.85	1.6	41100	22	5.5	4	0.75
R448092	OSS2	6433718	435806	5.6	-6mm	orbn, sandy soil with ironstone and minor fine-gnd qz lag	0.2	63800	3.5	2			360	0.4	3700	-0.1	55	10	26	2.2	62	2.3	1	1.05	33300	14	3.3	2	0.37
R446290	OSS2	6433718	435806	5.6	-6+2mm		0.1	60400	3.5	6	13	9	410	0.4	2950	-0.1	53	11.5	26	2.5	69	1.95	0.85	0.98	41300	16.5	2.7	2	0.33
R446291	OSS2	6433718	435806	5.6	-2+0.5mm		-0.1	68400	2	3			460	0.3	2800	-0.1	40	8.5	19	1.9	45	1.45	0.6	0.83	25800	17	2.1	2	0.25
R446292	OSS2	6433718	435806	5.6	-0.5mm+180mic		-0.1	69700	2	3			350	0.3	3800	-0.1	48	8	29	1.9	42	1.65	0.75	0.84	35400	16	2.5	2	0.28
R446293	OSS2	6433718	435806	5.6	-180+75mic		-0.1	60600	4	5			290	0.4	2850	-0.1	59	12	37	3.1	63	2.4	1.05	1	39400	16.5	3.3	2	0.43
R446294	OSS2	6433718	435806	5.6	-75mic		0.3	74700	6	8			350	0.4	3500	-0.1	99	16.5	44	4.8	91	4	1.85	1.55	42200	22	5	4	0.71
R448093	OSS3	6433702	435805	3.5	-6mm	orbn, sandy soil with ironstone and fine-gnd qz lag; close to subcrop of very cg pegmatite (qz, fspr, musc)	0.2	69100	3.5	1	3		430	0.3	3350	-0.1	57	10.5	29	2.8	64	2.5	1.1	1.1	36400	16	3.6	2	0.41
R446295	OSS3	6433702	435805	3.5	-6+2mm		0.1	71400	4	3			500	0.3	2650	-0.1	65	12.5	34	3.3	64	2.2	0.95	1.15	39000	20	3.2	2	0.39
R446296	OSS3	6433702	435805	3.5	-2+0.5mm		-0.1	71000	2	8			550	2.8	2650	-0.1	46	9	23	2.3	52	1.7	0.65	0.93	29300	17	2.4	2	0.28
R446297	OSS3	6433702	435805	3.5	-0.5mm+180mic		0.2	71900	10	3			350	0.4	3400	0.1	58	9.5	32	2.3	47	2.1	0.9	0.93	37500	17.5	2.7	2	0.38
R446298	OSS3	6433702	435805	3.5	-180+75mic		0.1	66600	5	4			310	0.3	3150	-0.1	62	12.5	40	3.5	65	2.6	1.15	1.05	42500	17.5	3.5	2	0.46
R446299	OSS3	6433702	435805	3.5	-75mic		0.3	81200	7	6			350	0.4	3700	-0.1	82	15	47	5	89	3.6	1.6	1.4	43600	22.5	4.6	4	0.67
R448094	OSS4	6433665	435798	5	-6mm	orbn, sandy soil with ironstone and fine-gnd qz lag; close to outcrop of pegmatite (qz, fspr, musc)	0.2	69600	3.5	60	16		550	0.3	3150	-0.1	62	12	32	3.1	54	2.6	1.15	1.2	35800	16.5	3.7	2	0.44
R446300	OSS4	6433665	435798	5	-6+2mm		0.2	72400	3.5	3			750	0.3	2400	-0.1	56	10.5	38	3.6	47	2	0.9	1.05	37200	20.5	2.8	2	0.35
R446301	OSS4	6433665	435798	5	-2+0.5mm		-0.1	72900	3.5	1			650	0.2	2750	-0.1	44	9.5	28	2.9	41	1.75	0.75	0.92	32200	19	2.2	2	0.32
R446302	OSS4	6433665	435798	5	-0.5mm+180mic		-0.1	73400	3	1			420	0.3	3400	-0.1	47	10	32	2.8	42	1.95	0.95	0.88	36200	18.5	2.5	2	0.35
R446303	OSS4	6433665	435798	5	-180+75mic		-0.1	64000	3.5	2			340	0.3	3000	-0.1	65	12	37	3.4	53	2.7	1.2	1.1	41600	16	3.6	2	0.49
R446304	OSS4	6433665	435798	5	-75mic		0.2	80000	7	3			420	0.4	3650	-0.1	82	15	46	5	72	3.6	1.7	1.4	44500	21.5	4.5	4	0.69
R448095	OSS5	6433742	435802	4.2	-6mm	orbn, sandy soil with cg ironstone and fine-gnd qz lag; adj. to outcrop of pegmatite	0.2	64200	3.5	11			340	0.4	3150	-0.1	48	11	24	2.5	100	2.3	1.05	1	34000	14.5	3.2	2	0.38
R446305	OSS5	6433742	435802	4.2	-6+2mm		-0.1	55800	3	8			350	0.7	2250	-0.1	39.5	10	22	2.3	82	1.6	0.75	0.77	41400	15	2.1	1	0.3
R446306	OSS5	6433742	435802	4.2	-2+0.5mm		-0.1	67700	3	10			400	0.4	2950	-0.1	43	9	22	2.4	79	1.75	0.8	0.81	30500	16.5	2.5	2	0.33
R446307	OSS5	6433742	435802	4.2	-0.5mm+180mic		0.2	73800	3	10			340	0.4	3500	-0.1	45	10	30	2.8	78	1.8	0.8	0.82	33800	18	2.2	2	0.31
R446308	OSS5	6433742	435802	4.2	-180+75mic		0.3	65500	4	12			300	0.5	3150	-0.1	73	13.5	34	4	110	2.7	1.2	1.1	37800	17.5	3.6	2	0.47
R446309	OSS5	6433742	435802	4.2	-75mic		0.4	79700	6	24	27	24	360	0.6	3550	0.1	76	16.5	41	5.5	160	3.3	1.55	1.4	40300	21.5	4	4	0.62
R448096	OSS6	6433750	435801	3.5	-6mm	orbn, sandy soil with cg ironstone and pegmatite, and fine-gnd, qz lag	0.2	64900	3	10			330	0.4	3050	-0.1	49	9	23	2.4	74	2.2	0.95	0.99	33000	15	3.2	2	0.37
R446310	OSS6	6433750	435801	3.5	-6+2mm		0.2	60400	3.5	9			370	1.2	2050	-0.1	35.5	9	23	2.9	61	1.5	0.65	0.71	31600	15.5	1.8	2	0.26
R446311	OSS6	6433750	435801	3.5	-2+0.5mm		0.2	69600	2	9			430	0.5	2450	-0.1	33.5	8	15	2.3	52	1.25	0.5	0.66	24400	16.5	1.65	1	0.19
R446312	OSS6	6433750	435801	3.5	-0.5mm+180mic		0.2	74800	2.5	6			330	0.3	3250	-0.1	41.5	8.5	24	2.5	54	1.5	0.65	0.74	32000	17.5	1.95	2	0.27
R446313	OSS6	6433750	435801	3.5	-180+75mic		0.3	64800	4.5	10			290	0.5	2750	-0.1	55	13	32	4	83	2.2	1.05	0.98	37500	17.5	2.7	2	0.41
R446314	OSS6	6433750	435801	3.5	-75mic		0.5	78800	6.5	21	18	23	350	0.6	3400	-0.1	85	17	44	6.5	125	3.6	1.65	1.4	42500	23	4.3	4	0.65
R448097	OSS7	6433761	435800	6.6	-6mm	orbn, sandy soil with cg ironstone and fg qz lag; close to outcrop of pegmatite	0.2	67200	3	3			380	0.3	3200	-0.1	94	9.5	25	2.5	55	2.9	1.2	1.6	31200	15	5.5	2	0.43
R446315	OSS7	6433761	435800	6.6	-6+2mm		0.3	68400	3.5	5			420	0.4	2750	-0.1	63	11.5	31	3.5	47	2.1	0.9	1	32100	19	2.8	2	0.38
R446316	OSS7	6433761	435800	6.6	-2+0.5mm		0.2	69800	2.5	4			470	0.3	2800	-0.1	45.5	10.5	23	2.8	42	1.65	0.7	0.83	27000	17	2.1	2	0.29
R446317	OSS7	6433761	435800	6.6	-0.5mm+180mic		0.2	72200	2.5	5	4		350	0.3	3400	-0.1	48.5	11	30	2.8	39	1.85	0.8	0.86	34100	18	2.4	2	0.33
R446318	OSS7	6433761	435800	6.6	-180+75mic		0.3	63600	3.5	5			310	0.4	2900	-0.1	58	13.5	37	3.8	54	2.3	1.05	0.95	38200	16.5	2.9	2	0.41
R446319	OSS7	6433761	435800	6.6	-75mic		0.4	76000	5.5	8			370	0.4	3500	-0.1	78	17	37	5.5	78	3.3	1.55	1.35	41400	20	4	4	0.62
R448098	OSS8	6433786	435799	3.4	-6mm	orbn, sandy soil with rel. minor cg ironstone lag; fine-gnd qz lag; adj. to pegmatite outcrop	0.2	72800	3.5	3			490	0.3	3100	-0.1	58	10.5	31	3.1	39	2.5	1.1	1.1	33900	16	3.6	2	0.39
R446320	OSS8	6433786	435799	3.4	-6+2mm		0.3	75500	3	1			650	0.3	2350	-0.1	48.5	11	26	4.4	29	1.9	0.8	0.95	34100	19	2.3	2	0.33
R446321	OSS8	6433786	435799	3.4	-2+0.5mm		0.3	73600	2.5	2			600	7.5	2550	-0.1	45	9	22	3.2	25	1.45	0.65	0.8	24000	17.5	1.75	2	0.27
R446322	OSS8	6433786	435799	3.4	-0.5mm+180mic		0.2	76400	2.5	2			380	0.4	3300	-0.1	96	11	24	3.2	27	2.7	1	1.1	34100	18	4.2	2	0.41
R446323	OSS8	6433786	435799	3.4	-180+75mic		0.4	68400	6	2			350	0.6	2800	-0.1	62	12.5	38	4.2	38	2.5	1.15	1	39400	16.5	3	2	0.44
R446324	OSS8	6433786	435799	3.4	-75mic		0.5	86900	8	4			400	0.5	3400	-0.1	82	16.5	52	7	53	3.7	1.7	1.5	45900	24.5	4.3	4	0.69
R448099	OSS9	6433838	435796	6.1	-6mm	orbn, sandy soil with sparse, fine-gnd ironstone lag; fine-gnd qz lag; close to outcrop of pegmatite and cg qz-fspr-mica schist	0.2	78800	4.5	25			600	0.4	4000	-0.1	63	14.5	35	3.6	63	2.9	1.35	1.3	37300	18.5	4.1	3	0.5
R446325	OSS9	6433838	435796	6.1	-6+2mm		0.4	81200	8	9			750	0.4	3550	-0.1	61	13.5	34	4.8	51	2.3	1	1.15	37000	21.5	2.8	2	0.41
R446326	OSS9	6433838	435796	6.1	-2+0.5mm		0.3	79500	4.5	7			600	0.5	3500	-0.1	45.5	12	27	4.1	47	2	0.9	0.91	33600	19	2.2	2	0.37
R446327	OSS9	6433838	435796	6.1	-0.5mm+180mic		0.3	79100	4.5	7			470	0.4	4050	0.1	74	12.5	32	4.3	47	2.4	1.05	1.1	38700	20.5	3.2	2	0.43
R446328	OSS9	6433838	435796	6.1	-180+75mic		0.3	76900	5.5	9			440	0.5	4100	-0.1	69	14	37	5	61	2.8	1.25	1.15	43800	21	3.4	3	0.5
R446329	OSS9	6433838	435796	6.1	-75mic		0.4	89900	7.5	13			480	0.6	5000	0.1	73	15.5	41	7	71	3.5	1.6	1.5	48500	25.5	4.1	4	0.65

Appendix 4.2. Olary Silver Mine soils

	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E
	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2
Sample_no																																	
R448091	0.1	16400	35	0.18	3450	240	1	17800	5	27	13	310	15	7.5	74	200	-0.5	-0.5	5	3	79	0.38	-0.2	13	3000	0.5	0.15	1.6	63	2	11.5	1.2	41
R446285	0.1	16900	29.5	0.17	3100	240	0.8	13800	5	21.5	14	290	15	6	76	200	-0.5	-0.5	4.4	2.8	66	0.33	-0.2	11	2750	0.5	0.15	1.45	67	1.5	11.5	1	38
R446286	0.1	18700	27	0.13	2600	200	0.9	21200	5	19	12	300	20	5.5	88	300	-0.5	-0.5	4.2	2.9	76	0.27	-0.2	10	2050	0.5	0.15	1.6	53	2	10	0.9	32
R446287	0.05	15700	42	0.17	2800	220	0.7	26600	5	28.5	14	330	15	8	77	250	-0.5	1	5.5	2.7	82	0.4	-0.2	16	2650	0.5	0.15	2.4	67	1.3	12.5	1.05	34
R446288	0.05	14300	42.5	0.21	4250	340	0.7	11600	10	31	18	300	15	8.5	67	200	-0.5	-0.5	6	2.4	67	0.44	-0.2	15.5	4700	0.4	0.2	1.7	81	1	14.5	1.3	51
R446289	0.1	18400	60	0.33	6400	360	1.6	6800	10	44	22	380	20	12	100	250	0.5	1.5	8.5	3.5	105	0.68	-0.2	23.5	5750	0.7	0.3	2.7	96	2.1	24	2.2	69
R448092	0.1	16500	34	0.16	3250	230	0.7	17900	5	26.5	14	310	10	7.5	73	150	-0.5	-0.5	5	2.8	78	0.38	-0.2	11.5	2900	0.5	0.15	1.5	61	1.5	10.5	1.1	39
R446290	0.15	19300	33.5	0.15	2900	250	0.8	14600	5	23.5	14	310	20	6.5	85	150	-0.5	-0.5	4.7	3.2	70	0.33	-0.2	12.5	2750	0.5	0.15	2.3	67	1.8	11	1	37
R446291	0.05	19600	26	0.11	2200	160	0.7	23800	5	18	10	310	20	4.9	87	150	-0.5	-0.5	3.7	3	72	0.25	-0.2	9	1750	0.5	0.1	1.3	47	2	7.5	0.7	29
R446292	0.05	16300	30	0.13	2650	210	0.8	27400	5	21.5	13	320	15	6	68	100	-0.5	-0.5	4.2	2.6	75	0.28	-0.2	10.5	2550	0.4	0.1	1.25	67	1.3	9	0.85	32
R446293	0.05	14900	37	0.18	4250	310	0.8	11100	10	26.5	18	280	20	7	75	100	-0.5	-0.5	5	2.7	69	0.39	-0.2	15	4500	0.5	0.2	1.7	80	1.2	14	1.25	53
R446294	0.1	19000	59	0.32	6250	370	1.1	7100	10	43	24	380	20	11.5	105	200	-0.5	-0.5	8.5	3.5	96	0.63	-0.2	24	5750	0.7	0.3	2.6	98	1.9	23.5	2.1	69
R448093	0.1	18200	36.5	0.18	4050	260	0.6	16100	10	28.5	15	300	5	8	83	150	-0.5	-0.5	5.5	3	75	0.4	-0.2	12.5	3200	0.5	0.2	1.55	70	1.6	11.5	1.2	43
R446295	0.1	23100	39	0.17	4000	270	0.7	13900	10	26.5	17	290	15	7.5	110	150	-0.5	-0.5	5.5	3.4	69	0.38	-0.2	15.5	3200	0.7	0.15	1.8	76	2.6	12.5	1.15	42
R446296	0.05	22400	29.5	0.12	3000	195	0.7	20500	5	20.5	13	280	15	5.5	95	100	-0.5	-0.5	4	2.8	68	0.27	-0.2	10.5	2100	0.6	0.1	1.45	57	2.1	9	0.8	35
R446297	0.05	16700	37	0.15	3300	250	1.5	25100	5	23.5	16	320	15	6.5	77	100	-0.5	-0.5	4.6	2.3	75	0.33	-0.2	13.5	2750	0.5	0.15	2.1	72	2.2	12	1.05	37
R446298	0.05	15900	38.5	0.2	4950	360	0.8	10700	10	27.5	21	290	20	7.5	78	150	-0.5	-0.5	5.5	2.6	69	0.42	-0.2	15.5	4850	0.5	0.2	1.55	88	1.6	15	1.4	57
R446299	0.1	20000	51	0.3	6950	390	1	6400	10	37	25	360	25	10	105	200	0.5	1	7	3.2	92	0.56	-0.2	21	5700	0.6	0.3	2.2	105	2.2	22	1.95	72
R448094	0.05	19100	38	0.19	4350	310	0.6	15000	10	29.5	15	300	10	8.5	87	150	-0.5	-0.5	5.5	3.1	82	0.42	-0.2	13	3300	0.6	0.2	1.65	71	1.4	12.5	1.2	45
R446300	0.1	25500	33.5	0.16	4200	290	0.8	12000	10	23.5	17	270	20	6.5	120	150	-0.5	0.5	4.8	3.6	70	0.34	-0.2	14.5	3400	0.7	0.15	1.5	78	2.9	12	1	40
R446301	0.1	22200	26.5	0.15	3650	260	0.7	18900	10	18	14	280	15	5	105	150	-0.5	-0.5	3.9	3.2	79	0.29	-0.2	11	2650	0.6	0.15	1.3	67	2.4	10	0.9	37
R446302	0.05	17400	29	0.17	3750	290	0.7	23600	5	20.5	18	340	15	5.5	84	100	-0.5	-0.5	4.1	2.5	82	0.31	-0.2	11	2800	0.5	0.15	1.35	71	1.6	11.5	1.15	41
R446303	0.05	15800	41	0.2	5050	390	0.6	10400	10	30	22	290	20	8	74	150	-0.5	-0.5	6	2.5	68	0.45	-0.2	16.5	4750	0.5	0.2	1.65	86	1.3	15.5	1.3	55
R446304	0.1	20800	51	0.3	7400	450	0.9	6150	10	36.5	27	380	30	10	105	200	-0.5	-0.5	7	3.1	93	0.57	-0.2	20	5900	0.7	0.3	2.1	110	2.1	22.5	2	75
R448095	0.1	17300	30	0.17	3300	240	0.8	15700	5	24.5	14	330	10	7	74	150	-0.5	-0.5	4.7	2.9	75	0.37	-0.2	10	2950	0.5	0.15	1.5	61	2.5	10.5	1.15	40
R446305	0.15	19400	23	0.13	2700	210	0.9	12000	5	16.5	12	290	20	4.4	84	150	-0.5	-0.5	3.5	2.8	62	0.26	-0.2	8.5	2300	0.6	0.15	1.5	59	2.2	9.5	0.85	34
R446306	0.1	19200	26	0.15	2900	210	0.8	18300	5	19	13	320	15	5	87	200	-0.5	-0.5	3.9	3.1	70	0.3	-0.2	11	2350	0.6	0.15	1.45	56	2.6	10.5	0.9	36
R446307	0.05	17400	30.5	0.14	3000	240	0.7	24600	5	20	14	360	15	5.5	81	150	-0.5	0.5	3.9	2.9	84	0.27	-0.2	10	2800	0.5	0.15	1.4	66	2.5	12	0.9	36
R446308	0.05	15900	49.5	0.2	4200	330	1.3	11500	10	32.5	19	360	20	9	82	150	-0.5	-0.5	6	3	78	0.42	-0.2	17.5	4550	0.5	0.2	1.95	79	3	17.5	1.25	53
R446309	0.1	20900	51	0.28	6000	360	1.3	8150	10	35	24	460	25	9.5	110	250	-0.5	1	6.5	3.5	97	0.49	-0.2	20	5300	0.7	0.3	2.5	94	5.5	23	1.9	67
R448096	0.1	17500	32	0.17	3200	240	0.6	17000	5	25	12	320	15	7	77	150	-0.5	-0.5	4.8	3	74	0.36	-0.2	10	2800	0.5	0.15	1.45	59	1.7	10	1.1	38
R446310	0.1	21000	24.5	0.13	2700	240	0.6	13300	5	15.5	11	290	20	4.3	94	150	-0.5	-0.5	3.2	3.1	68	0.22	-0.2	9.5	2550	0.6	0.1	1.45	55	1.9	10.5	0.8	36
R446311	0.1	20500	23.5	0.1	2200	155	0.6	22600	5	15	10	310	20	4.1	91	150	-0.5	-0.5	3	3.3	71	0.19	-0.2	7.5	1700	0.5	0.1	1.2	44	2.2	8	0.6	29
R446312	0.05	16900	28.5	0.12	2700	195	0.6	26700	5	18	14	350	20	4.9	78	150	-0.5	-0.5	3.5	2.5	78	0.24	-0.2	9	2400	0.5	0.1	1.3	63	1.4	10	0.8	33
R446313	0.05	15500	37	0.18	4300	310	0.8	10600	10	24	18	330	20	6.5	82	150	-0.5	-0.5	4.8	2.8	75	0.34	-0.2	12.5	4550	0.5	0.2	1.6	79	1.3	15.5	1.3	55
R446314	0.1	19700	58	0.31	6300	370	1.2	7000	10	37.5	23	430	20	10	110	250	-0.5	1	7.5	3.6	105	0.54	-0.2	21.5	5700	0.7	0.3	2.6	98	2.2	25.5	2	70
R448097	0.05	17600	61	0.19	3600	250	0.5	17200	10	44.5	15	320	5	13	75	150	-0.5	-0.5	8.5	3.2	75	0.55	-0.2	14.5	3050	0.5	0.2	1.65	63	1.4	12	1.25	42
R446315	0.1	20900	41.5	0.15	3500	250	0.7	14500	10	26	16	290	20	7	105	150	-0.5	0.5	5	4.3	79	0.35	-0.2	13	3100	0.7	0.15	1.7	65	2.4	14	1	38
R446316	0.05	20600	30	0.14	3000	200	0.6	19600	5	19.5	13	300	20	5.5	94	150	-0.5	-0.5	3.8	3.2	78	0.24	-0.2	11	2350	0.6	0.15	1.35	56	2.4	11	0.85	35
R446317	0.05	16600	34	0.14	3050	240	0.6	25700	5	22	15	320	15	6	80	150	-0.5	-0.5	4.3	2.8	85	0.3	-0.2	12	2600	0.5	0.15	1.5	65	1.4	12.5	0.9	35
R446318	0.05	15100	40	0.18	4500	330	0.6	10800	10	25	20	280	15	7	78	150	-0.5	-0.5	4.8	2.7	72	0.36	-0.2	13.5	4600	0.5	0.2	1.5	80	1.1	16	1.15	52
R446319	0.1	19700	52	0.28	6350	380	0.8	7050	10	34.5	24	340	20	9.5	99	200	-0.5	-0.5	6.5	3.5	95	0.5	-0.2	19.5	5550	0.6	0.3	2.2	96	1.6	24	1.85	64
R448098	0.05	19800	36	0.19	4250	260	0.6	16600	5	28	16	300	-5	8	87	150	-0.5	-0.5	5.5	2.9	78	0.41	-0.2	12	3150	0.6	0.2	1.5	69	2.1	11.5	1.15	43
R446320	0.1	25000	32.5	0.15	4300	270	0.6	13500	10	20.5	17	280	15	5.5	125	100	-0.5	-0.5	4	3.2	74	0.29	-0.2	12.5	3250	0.8	0.15	1.6	73	2.3	13	1	42
R446321	0.05	22600	26	0.13	3250	230	0.6	20900	5	16	13	290	15	4.4	105	100	-0.5	-0.5	3.2	2.8	79	0.22	-0.2	9.5	2250	0.6	0.1	1.3	56	2.4	10	0.75	33
R446322	0.05	16900	62	0.15	3550	300	0.6	25300	5	40.5	17	340	20	11	82	100	-0.5	-0.5	7.5	2.3	82	0.48	-0.2	18	2900	0.5	0.15	1.65	70	1.4	15.5	1.05	37
R446323	0.05	15900	42	0.21	5100	350	1.4	10200	10	28	22	270	20	7.5	81	100	-0.5	-0.5	5.5	2.5	69	0.38	-0.2	16	4700	0.6	0.2	1.7	86	1.3	17	1.25	55
R446324	0.1	20100	58	0.33	7000	370	1.3	5950	10	38	28	350	20	10.5	120	200	0.5	1	7.5	4	105	0.55	-0.2	22.5	5850	0.8	0.3	2.5	115	2.3	27.5	2.1	71
R448099	0.05	19200	39	0.24	5800	350	0.6	12400	10	31	20	310	10	8.5	85	200	-0.5	-0.5	6	3.1	96	0.46	-0.2	13	3700	0.6	0.2	1.55	86	1.6	14	1.45	59
R446325	0.1	21900	39.5	0.18	5900	370	1.2	11800	10	25	21	290	20	7	105	150	-0.5	0.5	5	3	99	0.36	-0.2	15	3850	0.7	0.2	1.65	90	2.6	15.5	1.2	60
R446326	0.05	20000	29.5	0.16	5200	310	0.9	14200	5	19.5	20	280	20	5.5	93	150	-0.5	-0.5	4	2.7	91	0.3	-0.2	11.5	3300	0.7	0.15	1.45	80	1.7	13.5	1.1	53
R446327	0.05	18100	50	0.18	5300	310	0.7	18000	5	31	21	340	20	8.5	90	200	-0.5	-0.5	5.5	2.5	99	0.37	-0.2	14.5	3650	0.6	0.2	1.6	88	1.6	16	1.15	56
R446328	0.05	17900	46.5	0.23	6650	390	0.7	8100	10	31	25	320	20	8.5	91	200	-0.5	0.5	6	2.5	97	0.42	-0.2	16.5	4900	0.6	0.25	1.75	100	1.4	20	1.45	72
R446329	0.1	20800	53	0.3	8100	390	0.9	4600	10	35.5	29	360	20	9.5	115	250	-0.5	0.5	7	3.1	125	0.52	-0.2	20	5600	0.8	0.3	2.2	120	2	26	2	82

Appendix 4.3
Element plots for orientation soil traverse

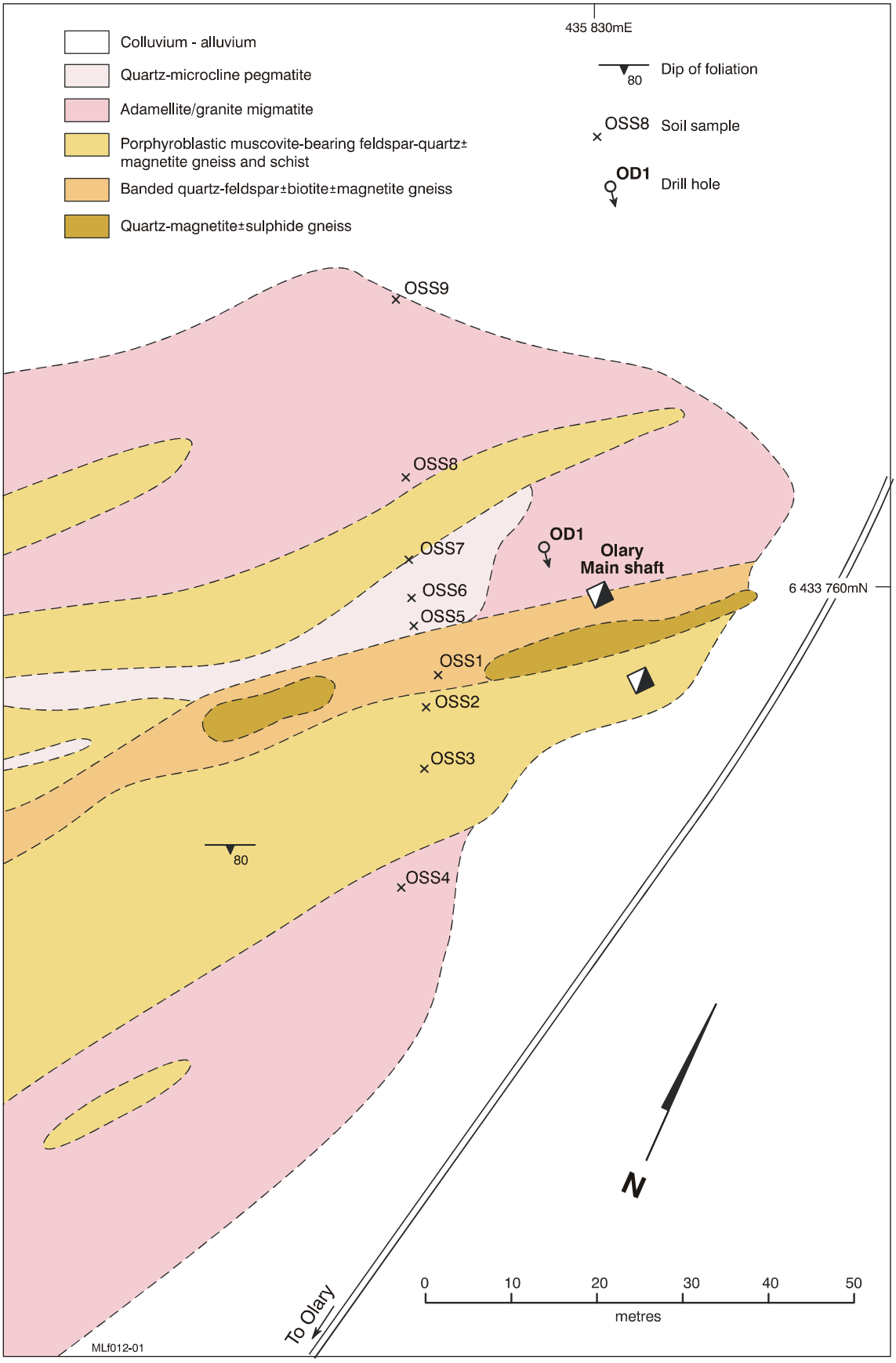


Figure A4.3.1: Geological map (after Chapman, 1988) showing location of the Olary Silver Mine and orientation soil traverse.

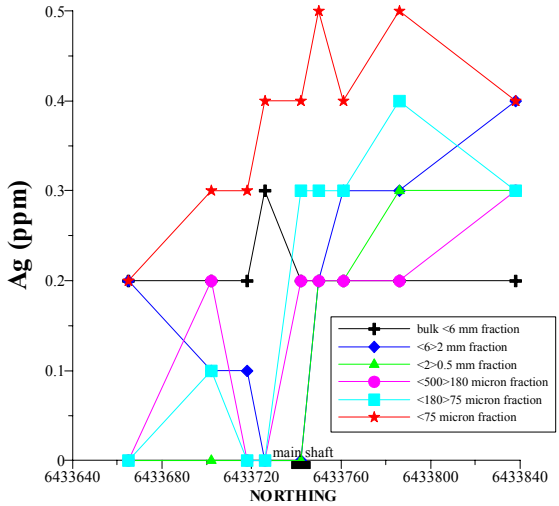


Figure A4.3.2. Distribution of Ag (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

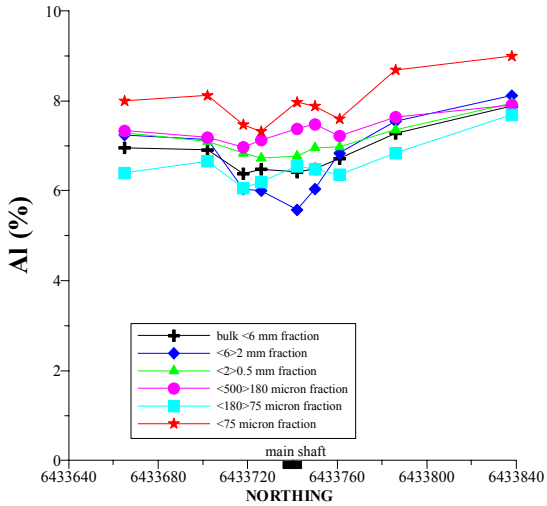


Figure A4.3.3. Distribution of Al (%) along the soil-lag orientation traverse at Olary Silver Mine.

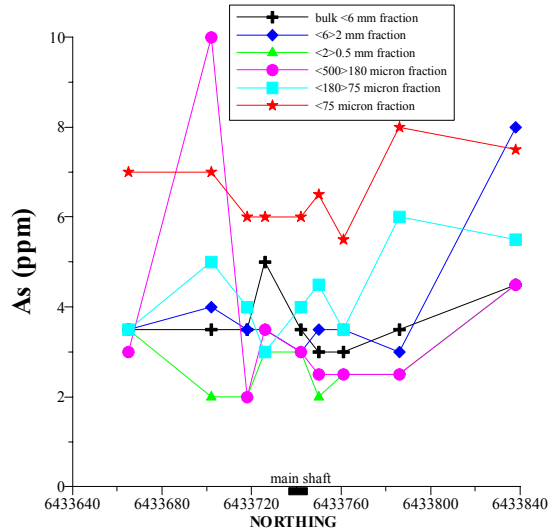


Figure A4.3.4. Distribution of As (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

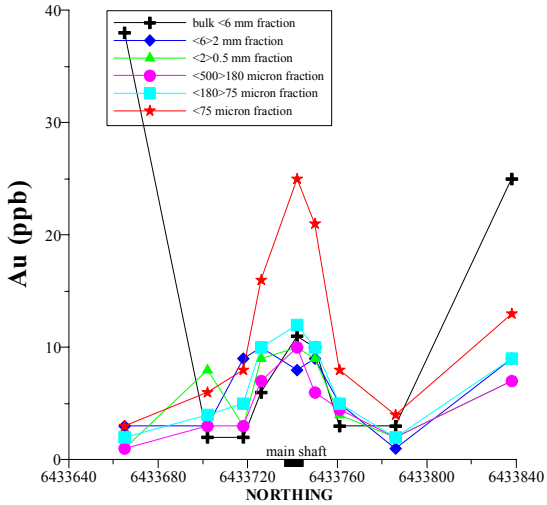


Figure A4.3.5. Distribution of Au (ppb) along the soil-lag orientation traverse at Olary Silver Mine.

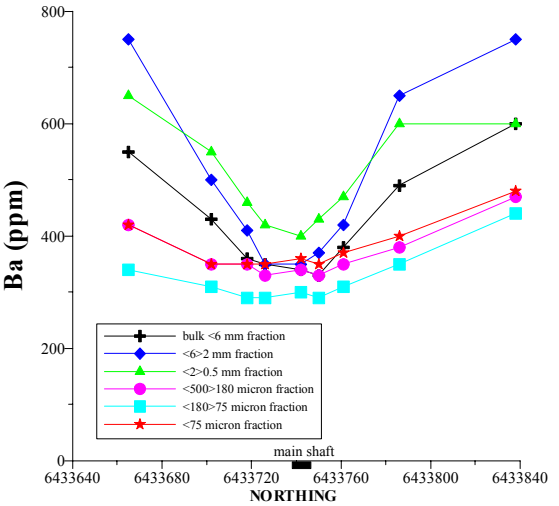


Figure A4.3.6. Distribution of Ba (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

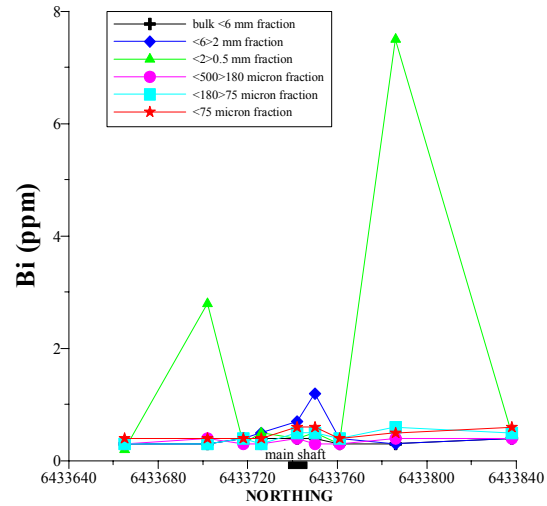


Figure A4.3.7. Distribution of Bi (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

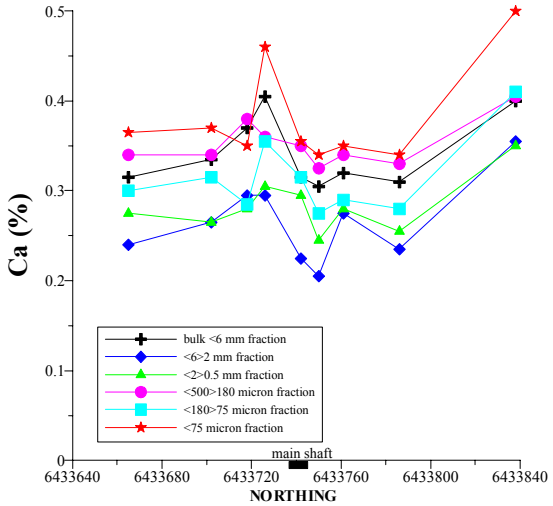


Figure A4.3.8. Distribution of Ca (%) along the soil-lag orientation traverse at Olary Silver Mine.

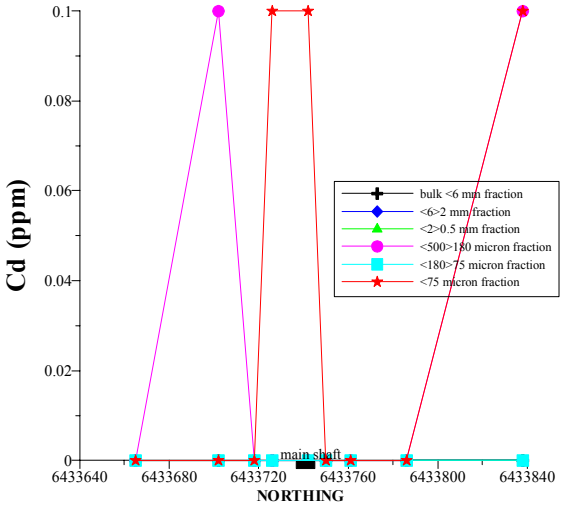


Figure A4.3.9. Distribution of Cd (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

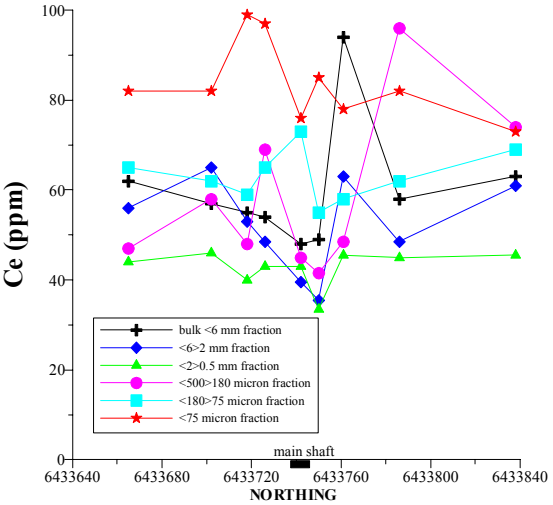


Figure A4.3.10. Distribution of Ce (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

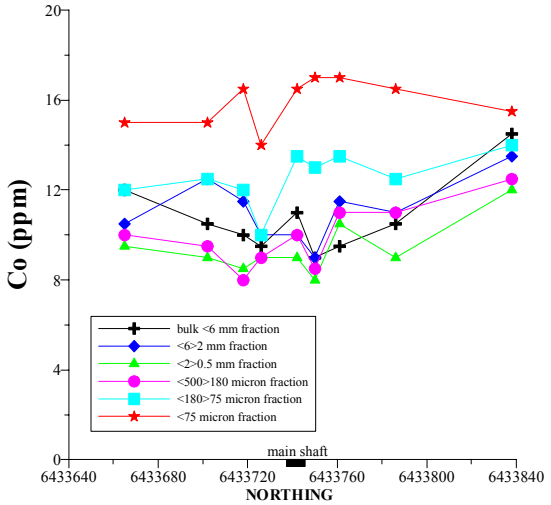


Figure A4.3.11. Distribution of Co (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

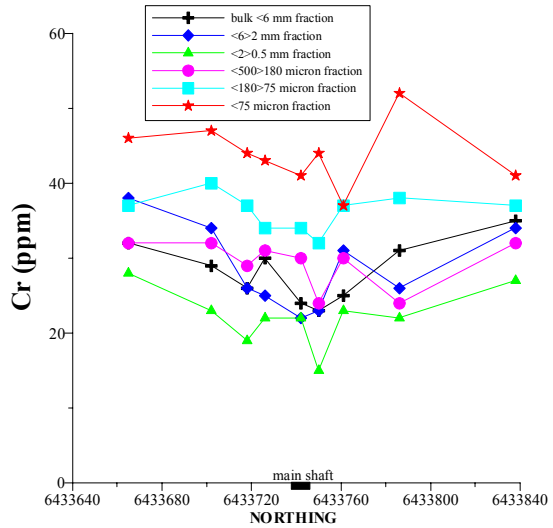


Figure A4.3.12. Distribution of Cr (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

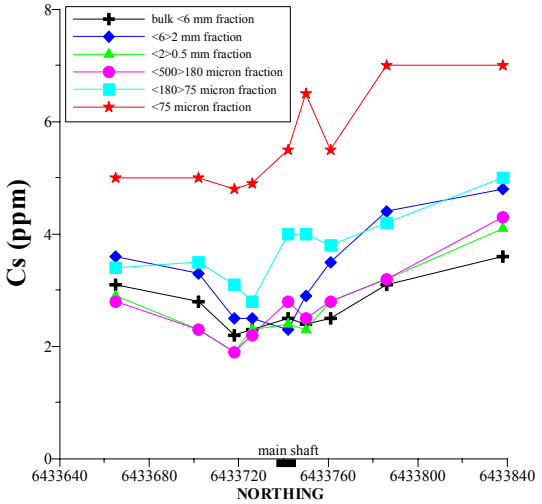


Figure A4.3.13. Distribution of Cs (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

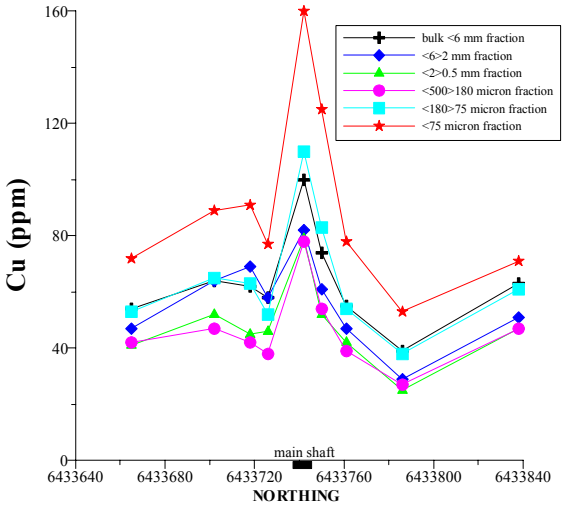


Figure A4.3.14. Distribution of Cu (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

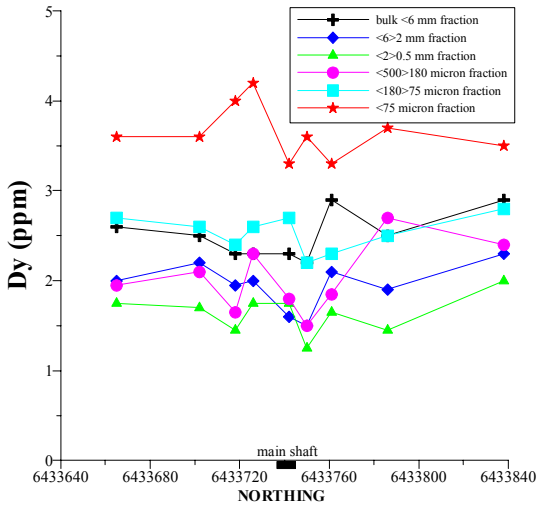


Figure A4.3.15. Distribution of Dy (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

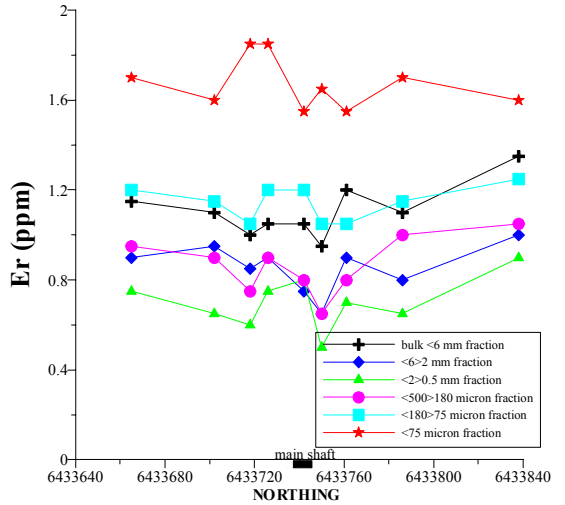


Figure A4.3.16. Distribution of Er (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

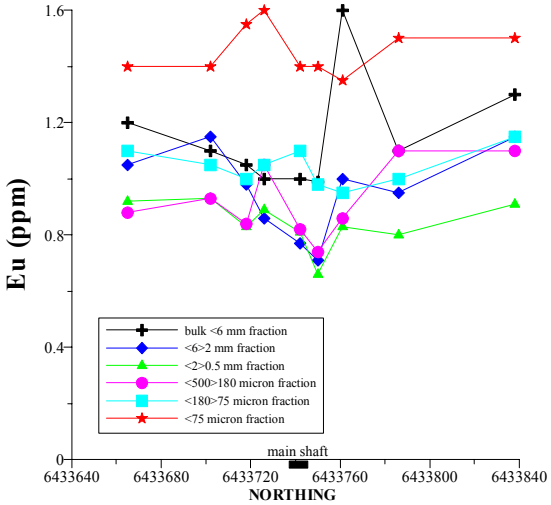


Figure A4.3.17. Distribution of Eu (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

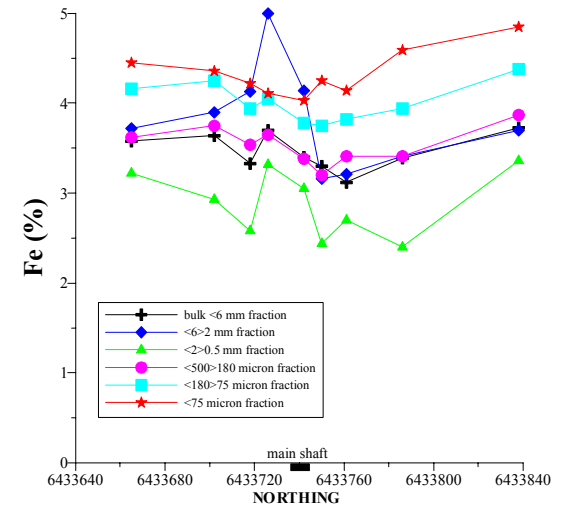


Figure A4.3.18. Distribution of Fe (%) along the soil-lag orientation traverse at Olary Silver Mine.

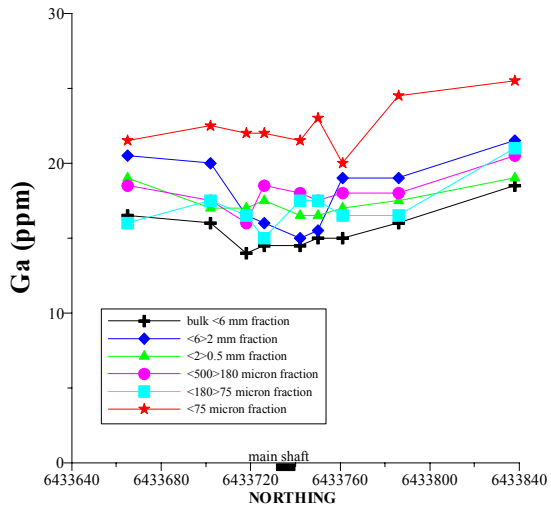


Figure A4.3.19. Distribution of Ga (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

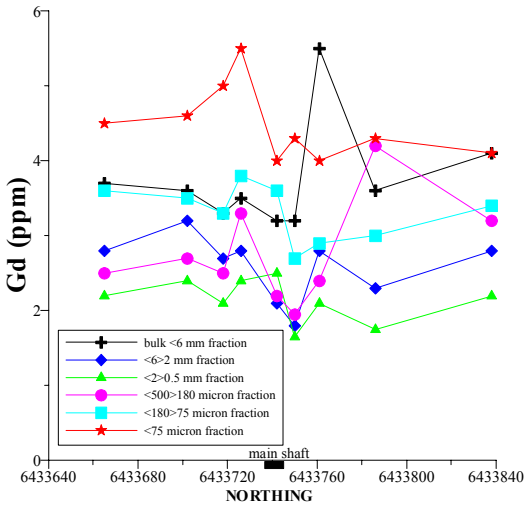


Figure A4.3.20. Distribution of Gd (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

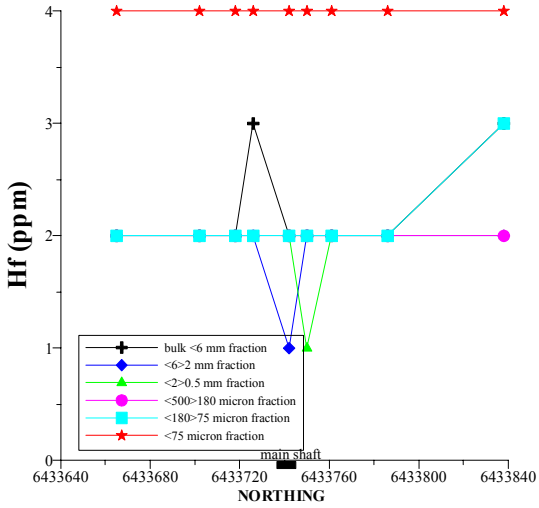


Figure A4.3.21. Distribution of Hf (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

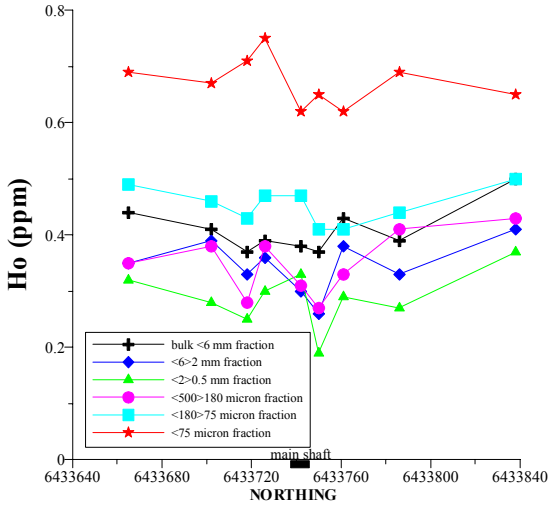


Figure A4.3.22. Distribution of Ho (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

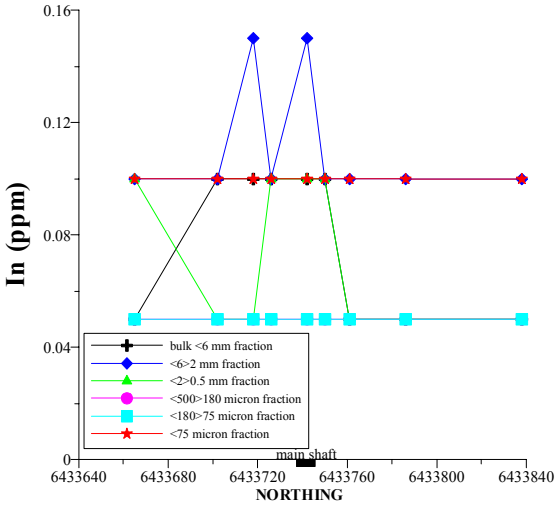


Figure A4.3.23. Distribution of In (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

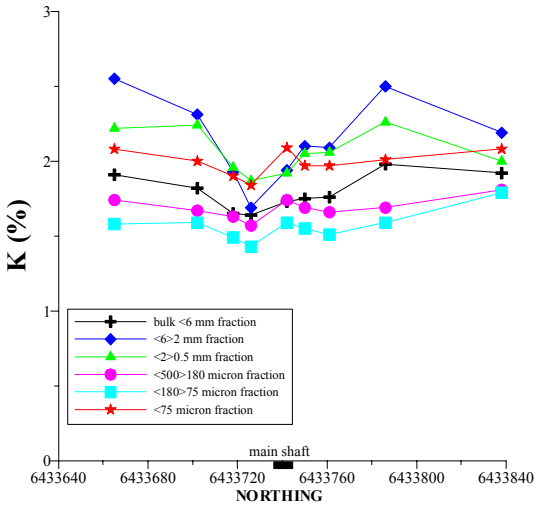


Figure A4.3.24. Distribution of K (%) along the soil-lag orientation traverse at Olary Silver Mine.

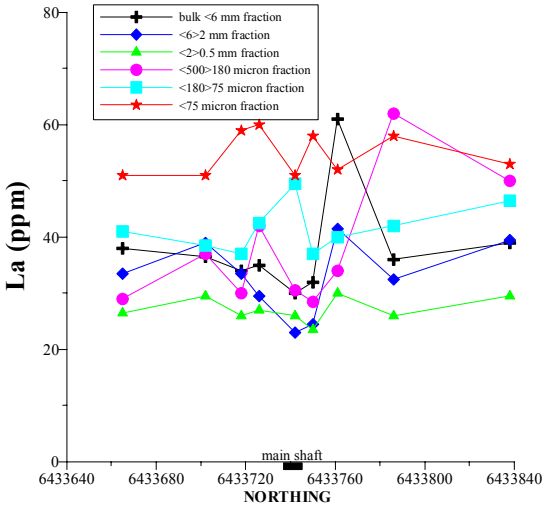


Figure A4.3.25. Distribution of La (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

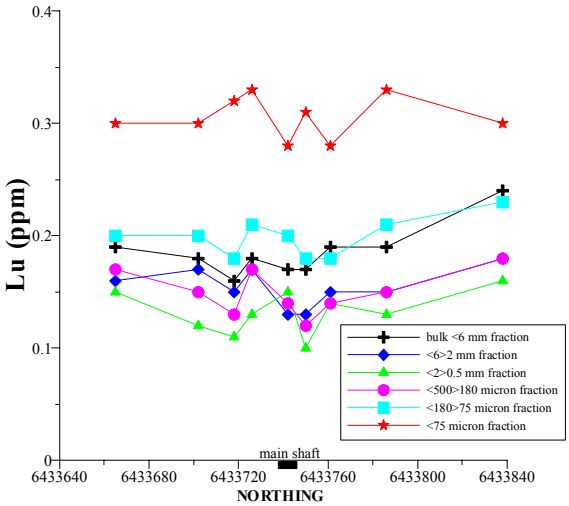


Figure A4.3.26. Distribution of Lu (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

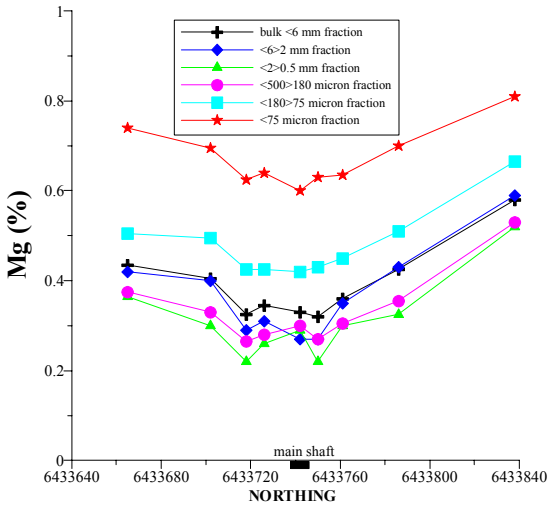


Figure A4.3.27. Distribution of Mg (%) along the soil-lag orientation traverse at Olary Silver Mine.

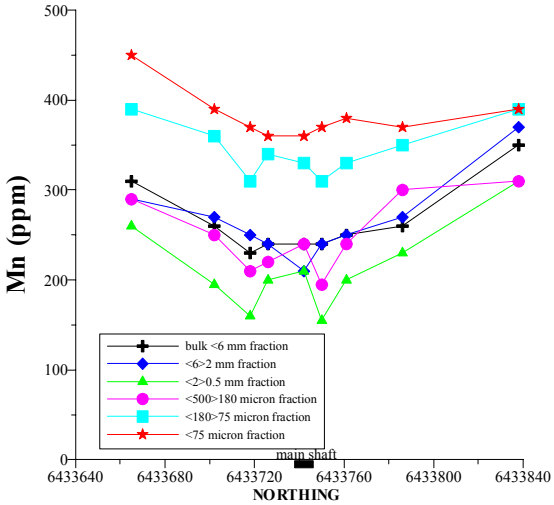


Figure A4.3.28. Distribution of Mn (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

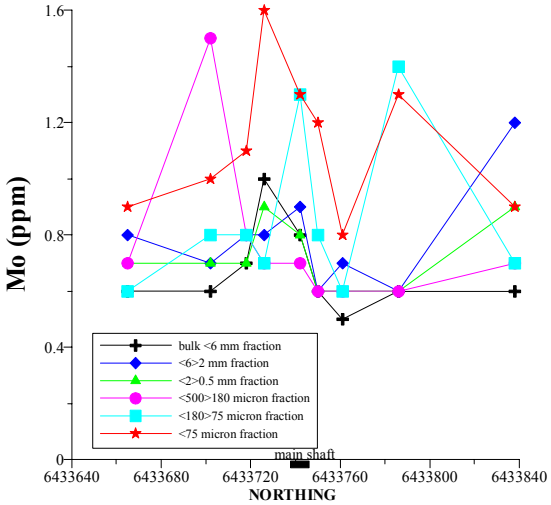


Figure A4.3.29. Distribution of Mo (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

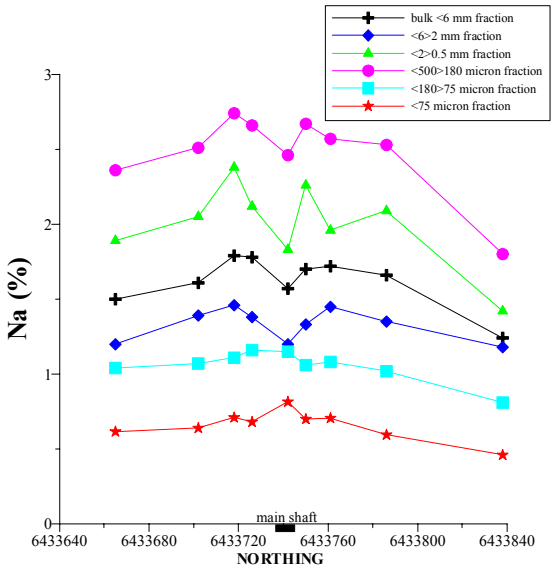


Figure A4.3.30. Distribution of Na (%) along the soil-lag orientation traverse at Olary Silver Mine.

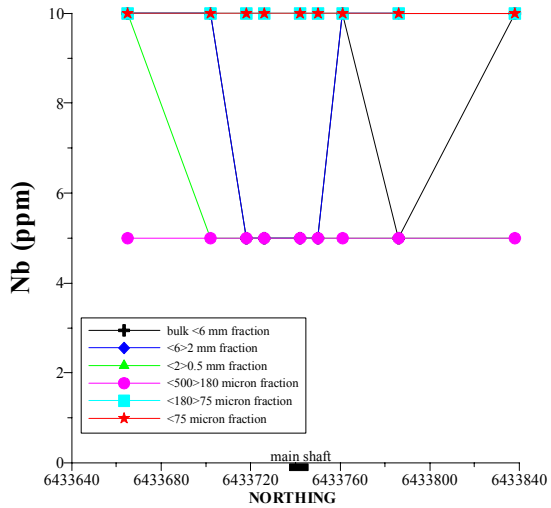


Figure A4.3.31. Distribution of Nb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

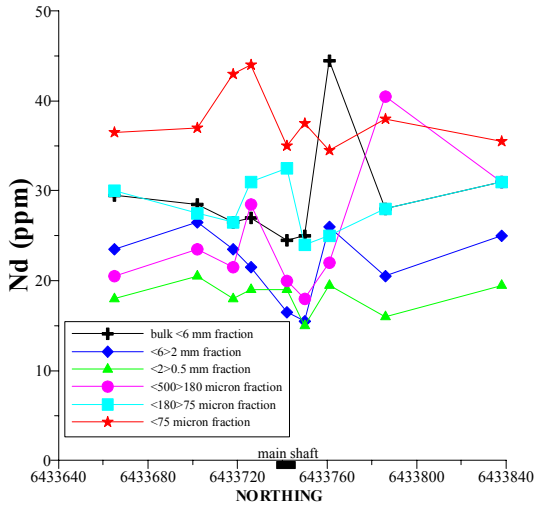


Figure A4.3.32. Distribution of Nd (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

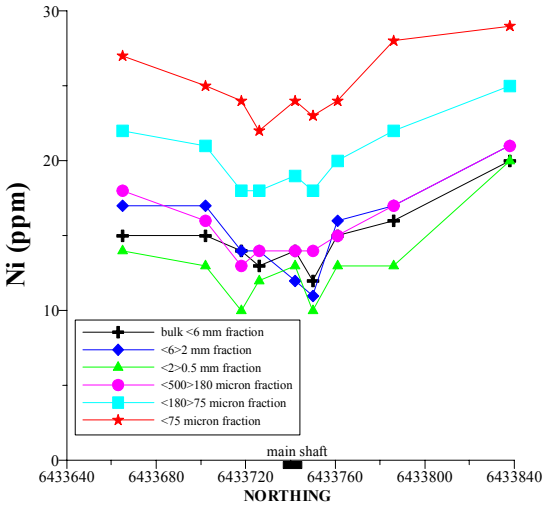


Figure A4.3.33. Distribution of Ni (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

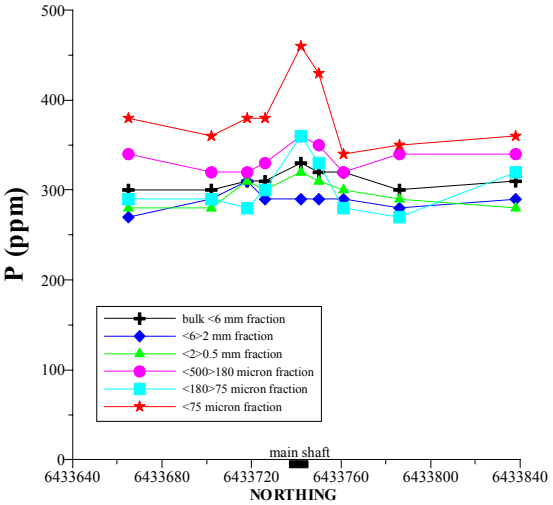


Figure A4.3.34. Distribution of P (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

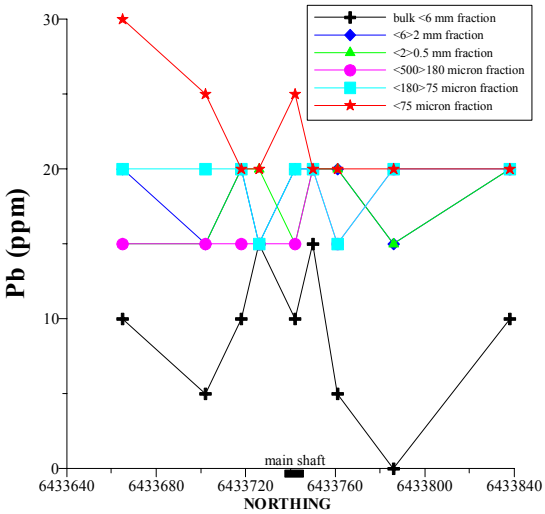


Figure A4.3.35. Distribution of Pb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

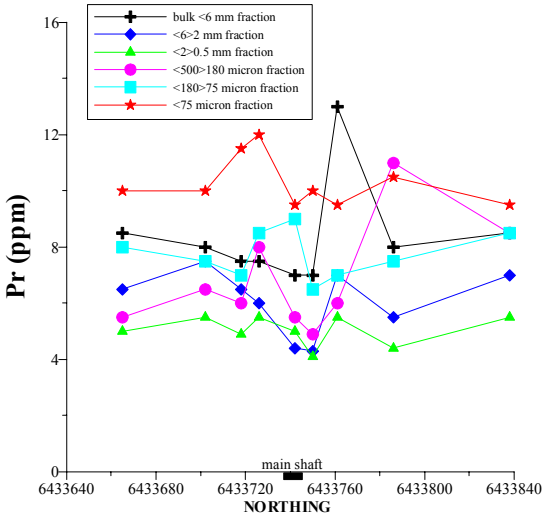


Figure A4.3.36. Distribution of Pr (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

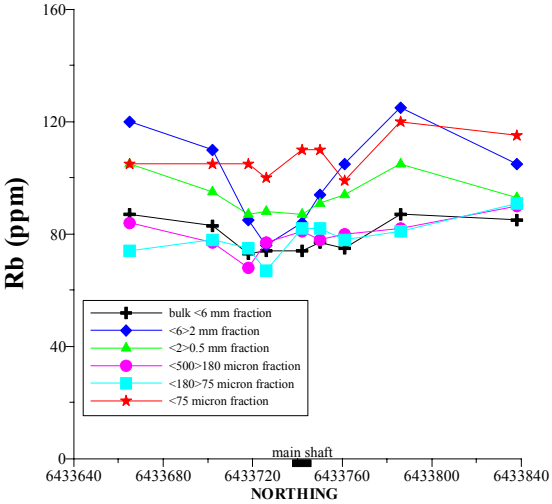


Figure A4.3.37. Distribution of Rb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

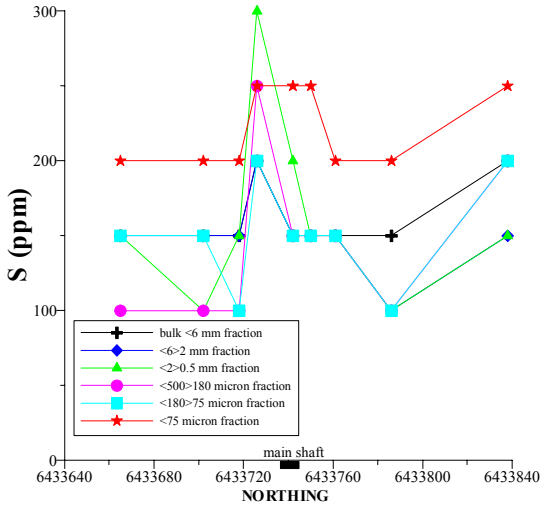


Figure A4.3.38. Distribution of S (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

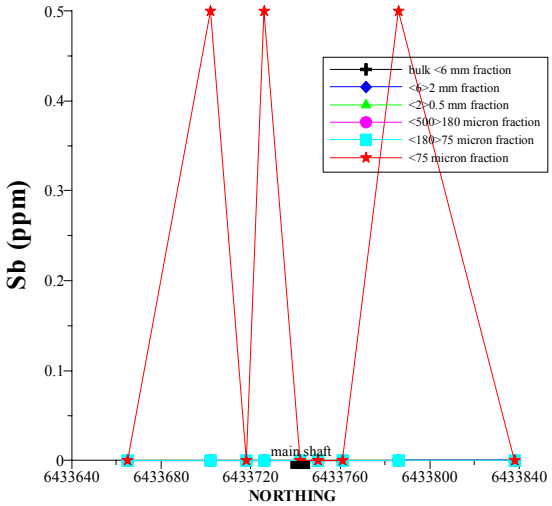


Figure A4.3.39. Distribution of Sb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

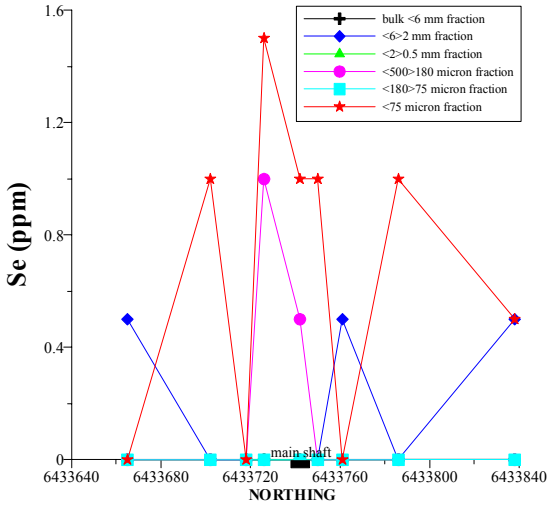


Figure A4.3.40. Distribution of Se (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

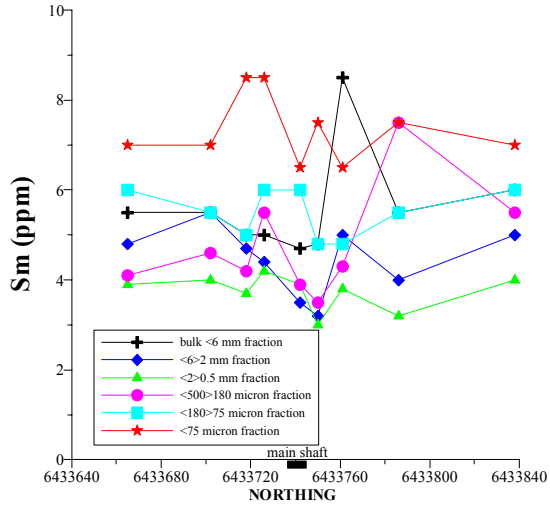


Figure A4.3.41. Distribution of Sm (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

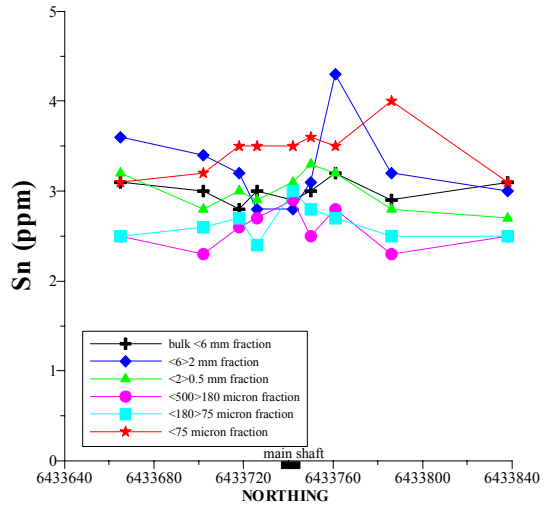


Figure A4.3.42. Distribution of Sn (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

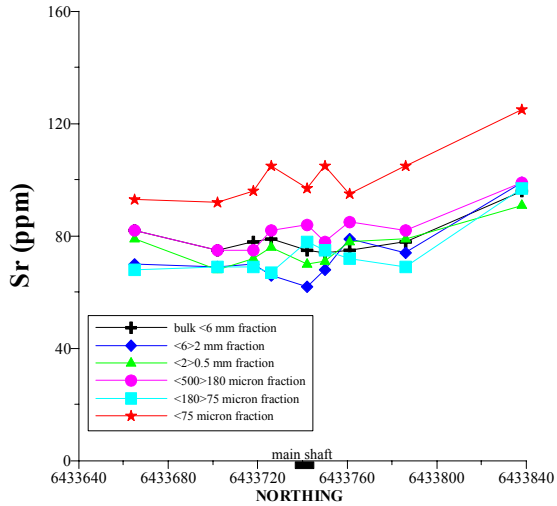


Figure A4.3.43. Distribution of Sr (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

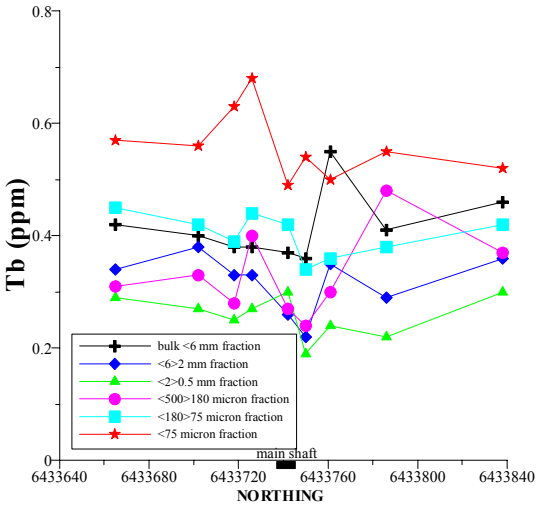


Figure A4.3.44. Distribution of Tb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

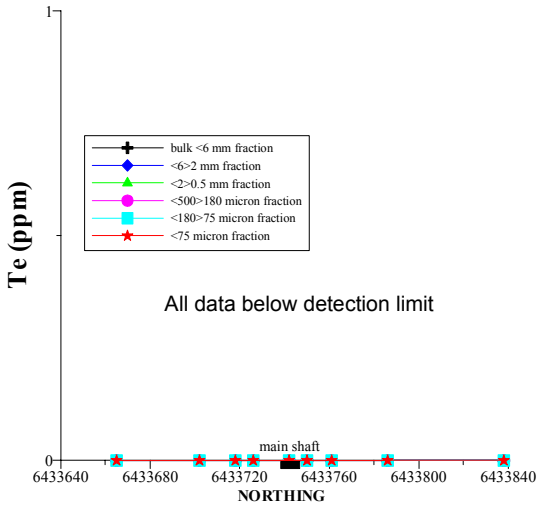


Figure A4.3.45. Distribution of Te (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

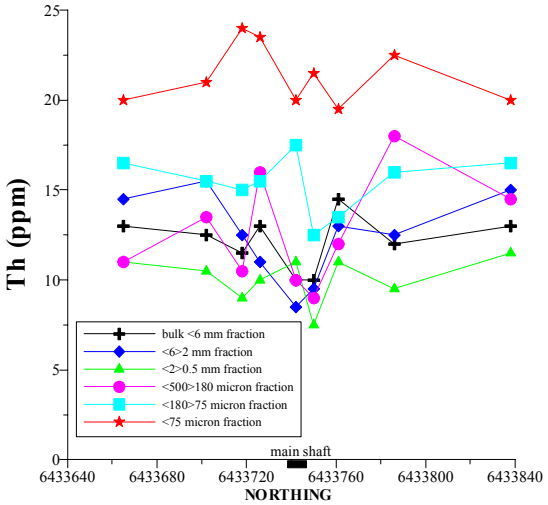


Figure A4.3.46. Distribution of Th (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

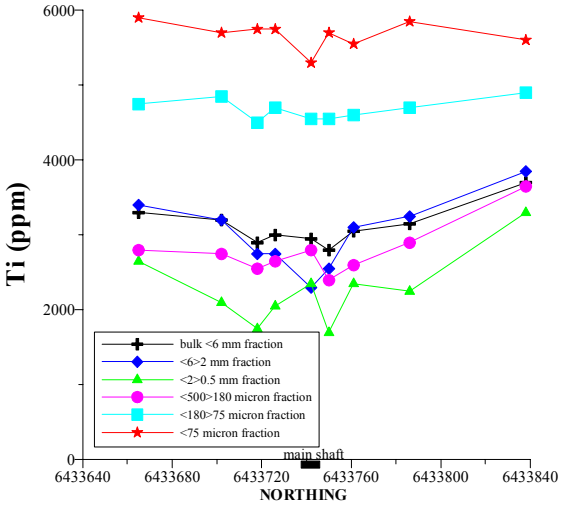


Figure A4.3.47. Distribution of Ti (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

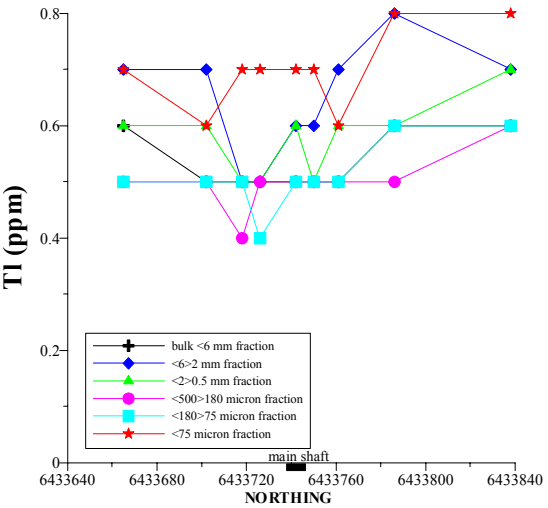


Figure A4.3.48. Distribution of Tl (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

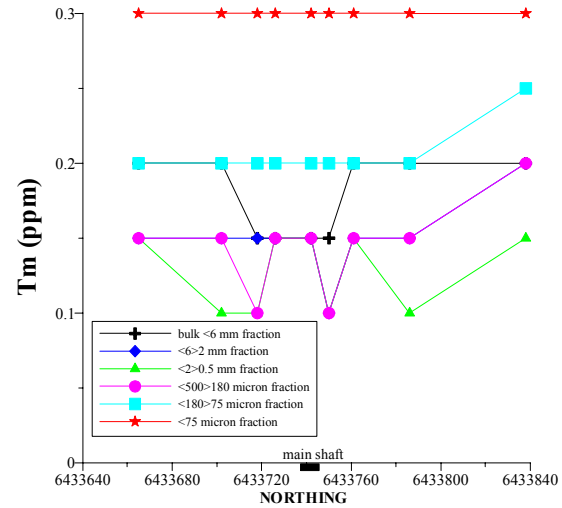


Figure A4.3.49. Distribution of Tm (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

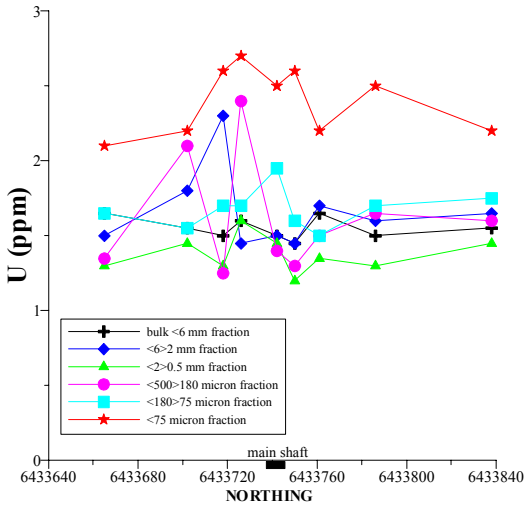


Figure A4.3.50. Distribution of U (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

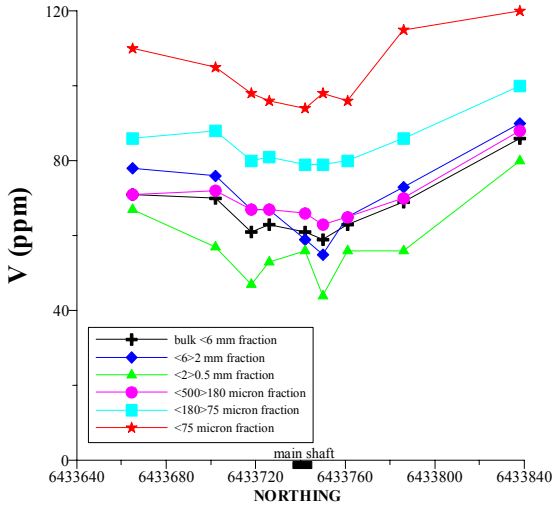


Figure A4.3.51. Distribution of V (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

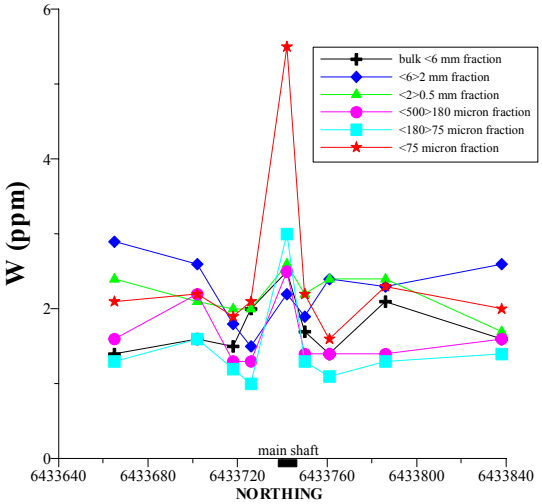


Figure A4.3.52. Distribution of W (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

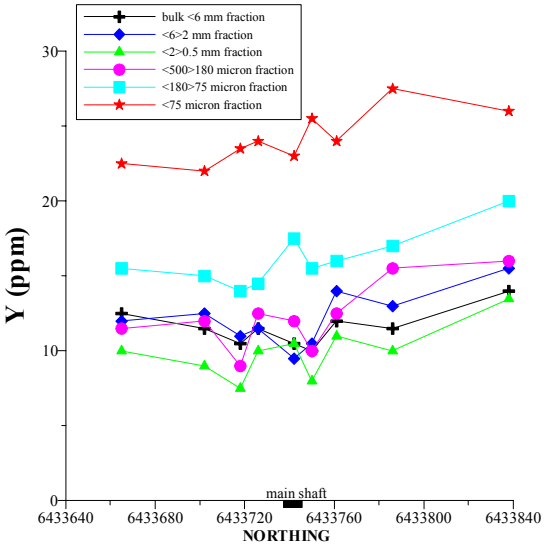


Figure A4.3.53. Distribution of Y (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

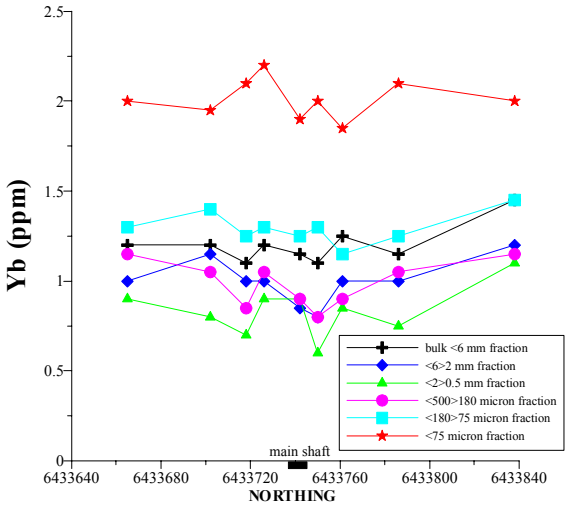


Figure A4.3.54. Distribution of Yb (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

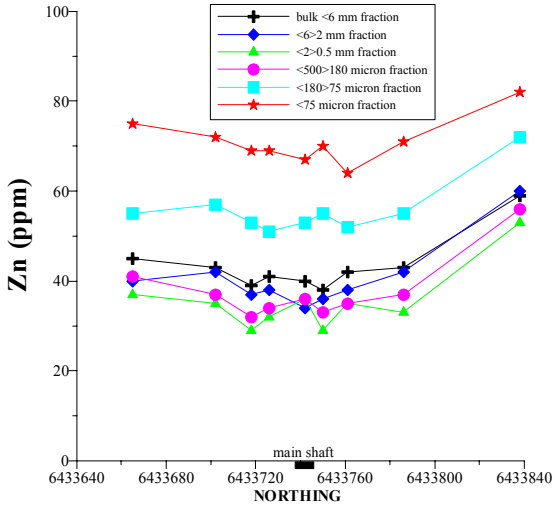


Figure A4.3.55. Distribution of Zn (ppm) along the soil-lag orientation traverse at Olary Silver Mine.

APPPENDIX 5.
REGIONAL ROCK-CHIP SAMPLES

Appendix 5. Regional sampling rock chips

						Element	Ag	Al	As	Au	AuDp1	AuDp2	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
						Units	ppm	ppm	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
						Scheme	IC3M	IC3E	IC3M	AA9	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R
						LLD	0.1	10	0.5	1	1	1	5	0.1	10	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02
Sample_no	Field_no	Northing	Easting	Error	Area	Description																		
R448174	T2	6394663	425223	3.9	Taylors	grey-bn calcareous soil (-6mm fraction) from 0-10cm; adj. to shallow pits with qv (with Feox after pyr, malachite and ?galena	0.1	45700	9	4			270	0.5	47800	-0.1	56	12.5	29	3.5	23	2.3	1.1	1.05
R448175	T3	6394663	425223	3.9	Taylors	massive calcrete (from pits) from 0-50cm; locally with inclusions of bedrock (andalusite-bearing pelite and/or sst)	-0.1	39600	8	6			360	0.2	157000	-0.1	40.5	4.3	16	1.1	22	1.25	0.55	0.71
R448176	T5	6394641	425349	3.7	Taylors	greyish or-bn (?calcareous) soil adj. to subcrop of qz-Fe oxide vein (Fe oxide possibly after mgt)	0.2	63200	9	4			380	0.6	4600	-0.1	81	18	39	3.9	41	3.2	1.55	1.5
R448177	T9	6395532	425605	4.6	Victoria Tower	calcrete coating on qv (main lode); qv contains common dissem. pyr and rarer cpyr and galena	0.4	4400	8	240	280		330	0.4	279000	2.2	6	7.5	5	0.3	92	0.85	0.4	0.37
R448188	T1	6394693	425360	5.2	Taylors	calcareous soil (-6mm fraction) from 0-10cm; near outcrop of qv in siltstone	0.2	51300	11	4			340	0.7	54400	-0.1	66	13	32	3.3	30	2.5	1.2	1.05
R448396	T6	6394641	425349	3.7	Taylors	siliceous Fe oxide adj. to sample T5; calcrete coatings	-0.1	2550	2	22			135	2.3	60700	0.2	13	100	-2	-0.1	1150	2.3	1.25	0.83
R448397	T7	6394626	425344	3.7	Taylors	purple-bn and yell-bn Fe oxide-rich rock (?after mgt rock)	0.7	45	74	5			80	2.2	4350	0.1	34.5	46.5	9	-0.1	370	2.1	1.1	0.94
R448398	T8	6394684	425411	3.4	Taylors	weathered 'ironstone' and ferruginised bedrock (with vein of Fe oxide (?after mgt)) from shallow pit	0.2	3100	2	6			200	2.6	1500	-0.1	26.5	38.5	5	1.2	270	1.35	0.7	0.85
R448399	T10	6395532	425605	4.6	Victoria Tower	galena-bearing qv	25	5750	15.5	820	920	850	85	2.1	500	3.7	5	3.5	19	0.2	340	0.18	0.1	0.1
R448436	ANR1	6379983	424555		Anabama	crystalline iron oxides in qv from altered Anabama granite	4.8	4100	20	170			600	4.4	2450	0.2	35	44	15	-0.1	1600	2	1.25	0.58
R448441	REGR1	6449572	437695			ferricrete, locally with qz fragments	5	6300	30.5	5	6		17400	0.6	950	3.9	30	500	25	0.1	400	5.5	3.2	5.5
R448442	REGR2	6448545	442885			ferricrete	0.4	41500	2	-1			450	0.2	198000	0.2	19	5	30	0.1	44	3.5	1.65	1.4

Element	Fe	Ga	Gd	Hf	Hg	Ho	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Scheme	IC3E	IC3M	IC3R	IC3M	AA6	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3R	IC3M	IC3M	IC3E
LLD	100	0.1	0.05	1	0.05	0.02	0.05	10	0.5	0.02	10	5	0.1	10	5	0.05	2	5	5	20	0.05	0.2	0.1	50
Sample_no																								
R448174	31900	12	4	3	-0.05	0.4	-0.05	13900	35	0.2	30200	600	0.7	6900	5	29	19	650	10		8		74	450
R448175	8800	11	2.4	2	-0.05	0.19	-0.05	13700	25.5	0.12	19100	40	0.2	10800	-5	20	2	125	-5		5.5		53	200
R448176	44300	17	5.5	4	-0.05	0.56	0.05	18900	49	0.3	18700	950	0.8	9150	10	40	25	260	10		10.5		98	200
R448177	3250	0.9	1	-1	-0.05	0.15	-0.05	1100	6	0.07	50100	50	0.8	1450	-5	5	2	105	5650		1.3		4.1	550
R448188	30500	13	4.1	4	-0.05	0.42	-0.05	14600	40.5	0.24	17700	900	0.8	7850	5	30	16	270	5		8		66	200
R448396	359000	1.4	2	-1	-0.05	0.44	-0.05	1400	7.5	0.19	33000	3650	5.5	2600	-5	6.5	190	75	15	-20	1.55	-0.2	2.8	400
R448397	554000	6.5	2.3	-1	-0.05	0.37	0.1	390	23	0.16	2150	1100	3.6	500	-5	11	27	410	20	-20	3.2	-0.2	0.7	950
R448398	515000	12.5	1.5	-1	-0.05	0.23	0.15	4400	20.5	0.1	2850	500	4	1800	5	9	75	650	10	-20	2.5	-0.2	14.5	9550
R448399	39500	2.4	0.25	-1	1.8	0.03	0.05	5850	3	-0.02	600	45	4.9	230	-5	2.1	5	230	42300	-20	0.6	-0.2	21.5	3150
R448436	428000	5	1.8	-1	0.25	0.39	0.55	2950	22.5	0.23	750	125	33	200	-5	10.5	28	1800	35	-20	3	-0.2	13	1050
R448441	71500	4.9	4.9	-1	-0.05	1.05	-0.05	1550	9	0.58	950	67000	155	240	-5	16.5	32	2500	135	-20	3.2	-0.2	3.7	550
R448442	134000	39	4.3	3	-0.05	0.6	3.2	1950	10.5	0.23	1350	7650	7	800	10	15.5	4	1000	15	-20	2.6	-0.2	9	150

Element	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn							
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
Scheme	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E							
LLD	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	10	0.1	0.05	0.02	2	0.1	0.05	0.05	2							
Sample_no																								
R448174	-0.5	0.5	5.5	1.8	300	0.44	-0.2	11.5	2750	0.4	0.2	1.1	57	1	12.5	1.25	42							
R448175	-0.5	-0.5	4	3	800	0.23	-0.2	8.5	1300	0.1	0.1	0.92	50	0.7	5.5	0.7	5							
R448176	-0.5	-0.5	7.5	3.2	86	0.6	-0.2	16	3900	0.5	0.25	1.5	77	1.9	17.5	1.75	46							
R448177	-0.5	-0.5	1.2	0.5	1350	0.11	-0.2	1.55	270	-0.1	0.05	0.52	28	0.9	5.5	0.5	51							
R448188	-0.5	-0.5	6	2.4	175	0.45	-0.2	14.5	3050	0.8	0.2	1.35	66	1.8	13.5	1.45	35							
R448396	-0.5	2	1.85	0.3	130	0.29	4.6	1.85	35	-0.1	0.2	2.7	13	0.1	15	1.45	4							
R448397	-0.5	9.5	2.5	1	77	0.3	1.2	4	440	-0.1	0.15	2.2	16	1.1	12	1.2	10							
R448398	-0.5	2.5	2	2.1	320	0.2	-0.2	4.3	330	0.2	0.1	3.3	37	1.2	6.5	0.8	6							
R448399	13	2	0.41	0.5	48.5	0.03	0.3	0.88	90	0.2	-0.05	0.44	9	0.6	1.05	0.1	460							
R448436	-0.5	4	2.2	1.4	80	0.26	0.4	10.5	115	0.1	0.2	61	115	3.3	12	1.7	31							
R448441	-0.5	-0.5	12	0.5	105	0.74	-0.2	2.7	1350	135	0.5	24	72	17.5	31	3.8	490							
R448442	-0.5	-0.5	6	48	25.5	0.53	-0.2	4.3	2000	2.2	0.25	15	99	3.2	22.5	1.8	45							

APPENDIX 6.
REGOLITH MAPPING CODES

REGOLITH CODES FOR OLARY PROJECT

	FAUGH-A-BALLAGH	OLARY	ANABAMA	WADNAMINGA	BLUE ROSE
Daf		Brown soil with lags of river gravel and lens of nodular calcretes on middle channel and overbank sediments. Gently sloping alluvial fans.	Brown soil with lags of river gravel and lens of nodular calcretes on middle channel and overbank sediments. Gently sloping alluvial fans.		
Dafp		Alluvium and fluvial gravels, commonly carbonate-cemented. Floodplains.	Alluvium and fluvial gravels, commonly carbonate-cemented. Floodplains.	Coarse sediments and gravel cemented by carbonates. Floodplains along the main drainage	Coarse sediments and gravel cemented by carbonates. Floodplains along the main drainage
Dafr					River gravel in alluvial sediments deposited as alluvial ridges with channel changes on alluvial plains. Low rises and round and long fluvial ridges.
Daft					Alluvial sediments and gravel in various thicknesses on saprolite, and developed as alluvial plains are eroded. River terraces.
Dap	Brown soil with lens of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.	Brown soil with lens of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.	Brown soil with lens of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.	Brown soil with lens of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.	Brown soil with lens of nodular calcretes on clay-rich alluvium and colluvium, overbank sediments or slope-wash detritus. Flat alluvial plains.
Dasb			Unconsolidated alluvium; sediment – silt and sands. Stream channel bars.		
Dsac			Fluvial sediments - mainly sands and silt and most commonly cemented by carbonates. Abandoned stream channels that can be reactiviated during exceptional floods.		Clay-rich soil and calcrete nodules on alluvial sediments. Broad and shallow drainage lins without obvious channels.
Dsbs			Fluvial sediments with large contents of magnetic materials. Buried palaeochannels identified from aeromagnetic data - burial depth is unknown.		
Dss	Unconsolidated fluvial sands and gravel. Modern stream channels.	Unconsolidated fluvial sands and gravel. Modern stream channels.	Unconsolidated fluvial sands and gravel. Modern stream channels.	Unconsolidated fluvial sands and gravel. Modern stream channels.	Unconsolidated fluvial sands and gravel. Modern stream channels.
Dssp					Shallow, clay-rich soil and calcrete nodules on saprock and saprolite. Gently sloping alluvial plains
Dst			Valley silcrete and silicified river sands and gravels. River terraces.		
Eobh		Slightly weathered siltstone, sandstone and dolomite of Burra Group. Low hills.			
Eoch	Rock fragments on slightly weathered calcalbitite. Hills				
Eodh				Slightly weathered calcareous siltstones and massive dolomites containing mica flakes, with interbedded phyllites near the base. High hills.	
Eofh		Slightly weathered siltstone, limestone and sandstone of Farina Supergroup. Low hills.			

Eogh		Fresh or slightly weathered granitic rocks without accumulation of weathered products. Hills.	Fresh or slightly weathered granitic rocks without accumulation of weathered products. Hills.		
Eogp			Coarse quartz sands and thin sandy soil on granitic rocks. Undulating erosion plains.		
Eoih	Massive ironstone bands, less weathered except for mechanical breakdown. High hills.				
Eomh	Fresh or slightly weathered migmatite without accumulation of weathered products. Hills				
Eomr		Lags of rock fragments on mudstone, siltstone and shale, slightly weathered fractures and beddings. Long ranges with parallel valleys.	Lags of rock fragments on mudstone, siltstone and shale, slightly weathered fractures and beddings. Long ranges with parallel valleys.		
Eooh	Slightly weathered gneisses and biotite schists – rock mechanical breakdown produce colluvial materials. High hills	Slightly weathered metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). High hills.			
Eoph		Slightly weathered conglomerates of Pualco Tillite. Low hills.			
Eoqh		Slightly weathered quartzite, sandstone and siltstone without regolith cover. High hills.	Slightly weathered quartzite, sandstone and siltstone without regolith cover. High hills.		
Eosh		Slightly weathered siltstone, mudstone, quartzite and shale - rock mechnical breakdown produce colluvial materials. Low hills.	Slightly weathered siltstone, mudstone, quartzite and shale - rock mechnical breakdown produce colluvial materials. Low hills.	Slightly weathered siltstone, mudstone and phyllites. Hills	
Eoth			Fractured Neoproterozoic tillite consisting of silicified boulders and gravels. High ridges.		
Eouh		Slightly weathered siltstones of the Umberatana Group. Low Hills.			
Eovh			Slightly weathered volcanic rocks - mainly rhyolite and dacite - with very little regolith materials except for colluvial materials at the lower slope. Hills.		
Eowh		Slightly weathered green siltstone of Wilyerpa Formation. Low hills.			
Eoyh		Slightly weathered siltstone and limestone of Yudnamutana Subgroup. High hills.			
Esap	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock. Erosion plains.
Esbh				Saprock on siltstones with iron oxide pseudomorphs after pyrite forming boxworks due to honeycomb weathering. Low hills.	
Escb					Slightly weathered siltstone, mudstone and metamorphic rocks with the same lithlogy as those intersected by drilling

					through the unit Dap. Channel beds.
Esch	Saprock and slightly weathered calcalbitite. Low rises and remnant hills.				
Escp	Thin proximate colluvium and locally-derived lithic fragments on saprock. Gently sloping pediments.	Thin proximate colluvium and locally-derived lithic fragments on saprock. Gently sloping pediments.	Thin proximate colluvium and locally-derived lithic fragments on saprock. Gently sloping pediments	Thin proximate colluvium and locally-derived lithic fragments on saprock. Gently sloping pediments	
Esdh				Sarock on interbedded sandy dolomites, calcareous siltstones and grey siltstones with iron oxide pseudomorphs after pyrite, and calcareous phyllites with a sandy dolomites. High hills	
Esep	Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.	Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.	Lags of lithic fragments and thin soil on saprock. Undulating erosion plains	Lags of lithic fragments and thin soil on saprock. Undulating erosion plains	Lags of lithic fragments and thin soil on saprock. Undulating erosion plains.
Esfh		Fragments of saprock on siltstone, limestone and sandstone of Farina Supergroup. Low hills.			
Esgh		Slightly weathered granitic rocks with corestones and tors. Low hills and rises.	Slightly weathered granitic rocks with corestones and tors. Low hills and rises.		
Esgp	Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments on saprock and gneisses. Erosion plains.		Thin proximate colluvium/alluvium mixed with locally-derived lithic fragments and coarse quartz sands on granitic rocks. Erosion plains.		
Esgs	Rock fragments on saprock developed in shear zones. Low hills.				
Esh	Saprock and slightly weathered bedrock of mainly gneisses and schists. Remnant hills.				
Eshs				Thin proximate colluvium and locally-derived lithic fragments on saprock. Hillslopes.	Thin proximate colluvium and locally-derived lithic fragments on saprock. Hillslopes
Esmr			Saprock and slightly weathered siltstone and mudstone in active stripping belts. Low rises and remnant hills.		
Esoh	Lithic fragments on saprock and in places saprolite developed along fractures. Low hills.	Saprock on metamorphics of the Willyama Supergroup (late Palaeoproterozoic basement). Hills.			
Esph				Saprock on interbedded phyllites and sandy siltstones containing iron oxide pseudomorphs after pyrite. Hillslopes.	
Espr				Saprock on interbedded micaceous phyllites, calcareous siltstone and sandy siltstone. Low rises.	
Esps				Saprock on interbedded phyllites and grey sandy siltstones containing iron oxide pseudomorphs after pyrite. Hillslopes.	
Esqp	Lag of quartz fragments from breakdown quartz veins or blows. Erosion plains.				
Esrh		Saprock on various siltstones and mudstones of Umberatana Group. Remnant hills.			
Essh		Lags of siltstone, mudstone and shale fragments on saprock, and in places	Lags of siltstone, mudstone and shale fragments on saprock, and in places	Lithic fragments on saprock and slightly weathered siltstone and mudstone. Hills.	Saprock and slightly weathered bedrock of mainly siltstone and mudstone. Hills

		saprolite is developed along fracture zones or drainage line. Low hills.	saprolite is developed along fracture zones or drainage line. Low hills.		
Essp		Lags of lithic fragments on slightly weathered shales and siltstone. Undulating erosion plains.			
Essr		Saprock and slightly weathered bedrock of mainly siltstone and mudstone in actively stripping belts. Low ranges.	Saprock and slightly weathered bedrock of mainly siltstone and mudstone in actively stripping belts. Low ranges.	Saprock on interbedded calcareous siltstone, micaceous phyllites and sandy siltstone. Low rises.	
Est					Remnants of opallised river gravel and silcretes on silicified saprock. Hilltop.
Esth		Saprock on dolomitic siltstone of Tapley Hill Formation. Low hills.			
Esuh		Saprock on various siltstones of the Umberatana Group. Low Hills.			
Esvh			Rock fragments and lithic soil on volcanic rocks. Low hills and rises.		
Eswh		Fragments of saprock on green siltstone of Wilyerpa Formation. Low hills.			

APPENDIX 7.
ANALYTICAL RESULTS FOR STANDARD 7

Appendix 7

Standard 7

STD 7	Ag	Al	As	Au	AuDp1	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hf	Ho	In	K	La	Lu	Mg	Mn	Mo
UNITS	ppm	%	ppm	ppb	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
SCHEME	IC3M	IC3E	IC3M	AA9	AA9	IC3E	IC3M	IC3E	IC3M	IC3M	IC3M	IC3E	IC3M	IC3E	IC3R	IC3R	IC3R	IC3E	IC3M	IC3R	IC3M	IC3R	IC3M	IC3E	IC3M	IC3R	IC3E	IC3E	IC3M
DETECTIONLIMIT	0.1	0.001	0.5	1	1	5	0.1	0.001	0.1	0.5	0.2	2	0.1	2	0.02	0.05	0.02	0.01	0.1	0.05	1	0.02	0.05	0.001	0.5	0.02	0.001	5	0.1
Recommvalues	**1.46**	**8.85**	**66**	**576**		**49**	**2.52**	**0.15**	**0.42**	**9**	**9.9**	**407**	**1.7**	**50**			**0.3**	**19.63**	**33**		**5.6**		**0.19**	**0.116**	**5.3**	**0.2**	**0.145**	**181**	**6**
Analysis1	0.4	8.78	65	110	120	30	2.8	0.23	<0.1	11	9.5	360	1	48	0.81	0.45	0.24	18.5	36	0.8	4	0.16	0.15	0.135	4.5	0.09	0.135	200	2.1
Analysis2	1	9.16	80	520	210	35	2.9	0.4	<0.1	11.5	8.5	390	1.3	57	0.9	0.45	0.27	19.4	36.5	0.9	5	0.16	0.2	0.14	5	0.09	0.15	220	2.9
Analysis3	0.6	8.99	60	330	210	35	2.7	0.635	<0.1	13	6.5	390	1.4	48	0.89	0.5	0.26	19.2	36	0.9	5	0.18	0.2	0.15	5	0.1	0.155	220	2
Analysis4	0.6	8.86	63	270	250	35	2.7	0.415	<0.1	13	7	410	1.4	47	0.87	0.45	0.27	18.7	38	0.85	5	0.16	0.2	0.14	5	0.09	0.14	210	2.2
Analysis5	0.5	8.74	62	140	190	30	2.2	0.31	<0.1	10.5	8.5	380	1.1	46	0.84	0.45	0.25	18.4	36	0.8	4	0.15	0.15	0.135	5	0.1	0.14	210	3
Analysis6	0.6	8.85	61	110	100	40	2.4	0.65	<0.1	11.5	8.5	360	1.2	55	0.91	0.5	0.28	18.4	34.5	0.9	4	0.16	0.15	0.165	5.5	0.1	0.17	210	2.8
Analysis7	0.7	8.96	60	210		35	2.3	0.47	0.7	13.5	9	380	1.2	47	0.84	0.45	0.26	19.3	34	0.9	5	0.16	0.2	0.14	6	0.08	0.145	210	2.9
Analysis8	0.5	8.92	65	300	210	30	2.7	0.365	<0.1	11	10	370	1.1	48	0.92	0.5	0.29	19.3	37	0.9	4	0.15	0.15	0.145	5	0.09	0.14	210	3
Analysis9	0.6	8.67	62	380	300	30	2.9	0.245	<0.1	12.5	9.5	360	1.2	44	0.86	0.5	0.28	18.4	41	0.8	6	0.17	0.15	0.13	5.5	0.07	0.13	195	2.7
Analysis10	0.5	8.94	59	170	240	35	2.9	0.555	<0.1	12.5	9	360	1.2	45	0.96	0.6	0.27	18.1	41	1	4	0.17	0.15	0.155	6	0.1	0.165	210	2.7
Analysis11	0.4	8.98	70	190	190	30	2.9	0.28	<0.1	10.5	8	390	1.1	45	0.92	0.55	0.27	18.4	40	0.85	4	0.16	0.15	0.13	5	0.1	0.135	210	2.7
Analysis12	0.5	9.09	66	270	240	35	2.7	0.41	<0.1	15	9	380	1.1	47	0.93	0.3	0.26	18.8	37	0.9	4	0.17	0.15	0.135	6.5	0.09	0.15	220	3.2
Analysis13	0.4	9.04	67	170	170	35	2.8	0.57	<0.1	14	9	400	1.3	44	0.93	0.3	0.3	18.6	37.5	0.95	4	0.18	0.15	0.15	5.5	0.11	0.16	220	2.8
Analysis14	0.5	8.98	61	130		30	2.9	0.205	<0.1	9.5	10	340	1.5	43	0.62	0.35	0.23	18.7	41.5	0.55	3	0.12	0.2	0.135	5.5	0.07	0.13	210	2.6
Analysis15	0.6	8.9	58	110	220	30	2.8	0.155	<0.1	9.5	9	340	1.5	43	0.61	0.3	0.22	18.8	40	0.5	3	0.12	0.2	0.125	5	0.08	0.125	200	2.7
mean	0.56	8.924	63.933	227.333	203.846	33	2.707	0.393		11.9	8.733	374	1.24	47.133	0.854	0.443	0.263	18.73	37.733	0.833	4.267	0.158	0.17	0.141	5.333	0.091	0.145	210.333	2.687
stddev	0.15	0.13	5.522	118.048	53	3.162	0.228	0.158		1.628	0.98	20.633	0.155	4.015	0.105	0.092	0.022	0.399	2.419	0.137	0.799	0.018	0.025	0.011	0.523	0.012	0.013	7.669	0.342
variance	0.023	0.017	30.495	13935.238	2808.974	10	0.052	0.025		2.65	0.96	425.714	0.024	16.124	0.011	0.009	0.000	0.16	5.852	0.019	0.638	0.000	0.001	0.000	0.274	0.000	0.000	58.81	0.117
coeffofvariance	0.268	0.015	0.086	0.519	0.26	0.096	0.084	0.402		0.137	0.112	0.055	0.125	0.085	0.123	0.208	0.082	0.021	0.064	0.165	0.187	0.113	0.149	0.076	0.098	0.128	0.093	0.036	0.127

STD 7	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn			
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
SCHEME	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3R	IC3M	IC3E	IC3M	IC3M	IC3M	IC3M	IC3M	IC3R	IC3M	IC3M	IC3E	IC3M	IC3R	IC3M	IC3E	IC3M	IC3M	IC3R	IC3E			
DETECTIONLIMIT	0.001	5	0.05	2	5	5	0.05	0.1	50	0.5	0.5	0.02	0.1	0.1	0.02	0.2	0.02	0.001	0.1	0.05	0.02	2	0.1	0.05	0.05	2			
Recommvalues	**0.022**	**6**		**40**	**44**	**23**		**12**	**290**	**1.1**	**3**	**1.4**	**2.52**	**11**			**26.5**	**0.887**			**4**	**851**	**11**	**5**	**0.8**	**20**			
Analysis1	0.055	5	4.7	36	100	15	1.2	10	250	1.5	<0.5	1.1	3.4	18	0.11	0.3	32	0.805	0.1	0.1	5	650	16.5	3.7	0.6	20			
Analysis2	0.055	5	5.5	39	110	20	1.35	11	250	1	<0.5	1.2	3.8	23	0.13	0.2	32	0.83	0.1	0.1	5.5	650	16	3.7	0.65	24			
Analysis3	0.06	5	5	39	115	15	1.3	7	250	1.5	1	1.3	3.9	34.5	0.13	<0.2	36	0.83	0.1	0.1	5.5	650	16	3.8	0.65	22			
Analysis4	0.055	<5	4.9	38	110	10	1.25	7	250	1.5	1	1.2	4.1	26.5	0.12	0.2	36	0.805	0.1	0.1	5.5	650	18	3.5	0.6	22			
Analysis5	0.05	<5	4.5	36	135	10	1.15	11	250	1	1.5	1.1	2.8	22.5	0.11	<0.2	30.5	0.79	<0.1	0.1	5	650	16.5	3.8	0.6	20			
Analysis6	0.07	<5	5.5	35	110	20	1.4	11	250	1	1	1.2	2.9	38.5	0.12	<0.2	31.5	0.78	<0.1	0.1	5	650	17	3.9	0.6	21			
Analysis7	0.055	<5	4.9	37	110	10	1.3	9.5	250	1.5	1	1.15	3.3	27	0.12	0.2	35	0.81	<0.1	0.1	5.5	650	17	3.8	0.6	20			
Analysis8	0.055	<5	5	37	110	15	1.25	10	250	1	1.5	1.15	3.6	28.5	0.12	0.2	30	0.805	<0.1	0.1	5	650	17	4	0.6	20			
Analysis9	0.05	10	5.5	40	85	30	1.2	9	250	1	3	1.1	2.8	17.5	0.11	<0.2	34	0.835	0.2	0.05	5.5	650	17	3.9	0.6	18			
Analysis10	0.085	<5	5.5	39	125	30	1.35	9.5	250	1	<0.5	1.35	2.7	40.5	0.12	0.3	34.5	0.9	<0.1	0.1	5	650	13	4.6	0.7	24			
Analysis11	0.06	<5	5	40	130	25	1.35	9.5	250	1	<0.5	1.2	2.8	21.5	0.12	0.3	31.5	0.905	<0.1	0.1	5	650	13	4.2	0.55	24			
Analysis12	0.065	<5	5.5	42	120	30	1.5	7	250	1.5	<0.5	1.2	3	29.5	0.12	0.2	42.5	0.92	<0.1	0.1	5.5	700	25.5	5	0.65	26			
Analysis13	0.07	<5	5.5	40	145	25	1.35	7.5	250	1.5	<0.5	1.3	3	38.5	0.13	0.3	41	0.92	<0.1	0.1	5	700	26	5.5	0.6	26			
Analysis14	0.06	10	4.3	41	115	25	1.1	11.5	250	1	3.5	0.94	3.1	17.5	0.08	0.5	31.5	0.86	<0.1	0.05	5.5	700	18	3.9	0.5	20			
Analysis15	0.055	10	4.1	41	100	25	1.05	10.5	200	1.5	3	0.88	3	14	0.08	0.7	32.5	0.855	<0.1	0.1	5.5	700	19	3.7	0.45	19			
mean	0.06	0	5.027	38.667	114.667	20.333	1.273	9.4	246.667	1.233	0.9	1.158	3.213	26.5	0.115	0.173	34.033	0.843		0.093	5.267	663.333	17.7	4.067	0.597	21.733			
stddev	0.009	6.547	0.474	2.093	14.936	7.432	0.119	1.583	12.91	0.258	1.417	0.126	0.449	8.473	0.016	0.269	3.662	0.048		0.018	0.258	22.887	3.649	0.551	0.061	2.52			
variance	0.000	42.857	0.225	4.381	223.095	55.238	0.014	2.507	166.667	0.067	2.007	0.016	0.201	71.786	0.000	0.072	13.41	0.002		0.000	0.067	523.81	13.314	0.304	0.004	6.352			
coeffofvariance	0.154	-	0.094	0.054	0.13	0.366	0.094	0.168	0.052	0.209	1.574	0.109	0.14	0.32	0.135	1.549	0.108	0.057		0.188	0.049	0.035	0.206	0.136	0.102	0.116			

APPENDIX 8.
CD containing GIS, geochemical data, documents, plots and maps