

Appendix 1
'Elemental analysis results'
(Work performed by ALS Ammtec Burnie Tas.)

	Coarse 1	Coarse 2	Sandy fines 1	Sandy fines 2	Clay Fines 1	Clay Fines 2
MAJORS AS OXIDES (wt %)						
Na ₂ O	0.082	0.059	0.167	0.149	0.115	0.179
MgO	0.013	0.002	0.033	0.032	0.056	0.063
Al ₂ O ₃	1.430	1.252	15.181	15.509	30.416	28.185
SiO ₂	95.401	90.693	73.701	75.487	49.146	47.622
P ₂ O ₅	0.008	0.004	0.026	0.039	0.098	0.070
SO ₃	-	-	-	-	0.006	0.009
K ₂ O	0.324	0.318	2.976	2.530	2.512	3.285
CaO	0.001	-	0.008	0.022	0.009	0.019
TiO ₂	0.025	0.023	0.449	0.409	0.568	0.567
V ₂ O ₅	-	-	-	-	-	-
Cr ₂ O ₃	-	-	0.035	0.012	-	-
Mn ₃ O ₄	0.005	0.003	0.011	0.013	0.007	0.005
Fe ₂ O ₃	0.055	0.035	0.450	0.484	1.014	0.945
NiO	0.001	-	0.037	0.012	0.001	0.001
CuO	0.122	0.261	0.015	0.011	0.026	0.051
ZnO	-	-	0.004	0.001	-	0.003
SrO	0.001	0.001	0.004	0.004	0.003	0.003
ZrO ₂	0.004	0.002	0.071	0.112	0.038	0.038
BaO	-	-	0.011	0.008	0.009	0.017
HfO ₂	-	-	-	-	-	-
PbO	-	-	0.001	0.002	0.001	0.001
LOI	2.528	7.347	6.820	5.164	15.984	18.937
TRACE ELEMENTS (ppm)						
Sc	0.1	-	8.2	7.6	7.8	8.8
V	8.5	-	-	-	3.5	3.5
Cr	97.4	18.9	41.4	46.3	7.9	7.4
Mn	11.7	7.5	23.3	31.7	14.4	12.9
Co	94.6	89.8	0.5	0.3	0.4	1.2
Ni	1.1	0.5	2.7	2.0	2.8	2.8
Cu	0.9	0.3	2.9	2.4	2.5	3.0
Zn	-	-	112.9	100.1	145.7	185.1
Ga	3.1	2.9	24.8	20.5	33.5	34.1
Ge	0.2	0.2	0.7	0.1	0.5	0.6
As	15.2	18.4	17.6	15.5	15.4	16.8
Se	0.3	0.6	0.3	0.5	0.3	0.4
Br	1.1	1.6	1.1	1.7	1.2	1.4
Rb	16.3	14.3	107.1	75.2	109.7	124.6
Sr	2.7	2.7	21.1	13.8	21.4	23.3
Y	9.0	5.8	22.5	21.0	41.6	41.9
Zr	67.2	65.2	623.2	708.5	378.6	316.6
Nb	2.2	1.4	23.1	16.3	25.2	26.1
Mo	0.7	0.2	2.9	3.1	2.2	1.4
Ag	-	-	-	-	-	-
Cd	-	-	-	-	-	-
Sn	3.6	3.4	8.5	7.5	10.6	12.0
Sb	-	-	-	-	-	-
Te	9.0	9.9	10.1	11.5	11.0	9.9
I	-	-	-	-	-	-
Cs	2.6	5.3	10.8	8.4	7.2	7.4
Ba	36.2	44.8	98.0	25.7	118.2	146.6
La	23.1	12.7	22.0	30.9	36.1	41.8
Ce	21.9	8.1	53.9	62.0	71.9	76.6
Nd	19.7	5.4	17.1	28.4	35.2	36.1
Sm	7.4	2.9	3.8	8.6	9.0	7.1
Yb	-	-	0.5	1.2	2.3	1.2
Hf	0.9	0.6	11.1	11.4	9.0	8.7
Ta	-	-	2.0	1.5	2.5	2.3
W	5.6	5.8	5.6	4.3	6.1	4.7
Hg	-	-	6.7	6.3	5.2	4.5
Tl	5.9	7.2	5.7	6.3	5.4	6.5
Pb	4.3	3.9	21.6	18.4	26.9	29.0
Bi	3.0	3.6	3.8	4.4	3.3	4.2
Th	6.7	3.1	31.8	24.0	41.2	37.9
U	3.6	3.6	11.0	9.8	14.4	15.4