

**Appendix 2-13 Chemical Analysis of Check Samples  
for TiO<sub>2</sub> and ZrO<sub>2</sub>**

Appendix 2-13 Chemical Analysis of Check Samples for TiO<sub>2</sub> and ZrO<sub>2</sub>

						Assay results (%)	
No.	No. of drillholes	Sample No.	Sampling position (m)			X-Ray spectral	
			from		to	ZrO <sub>2</sub>	TiO <sub>2</sub>
1	MJBKS-29	3g_8_1x	9.0	-	10.0	0.008	0.89
2	MJBKS-29	3g_8_2x	12.0	-	13.0	0.007	0.71
3	MJBKS-29	3g_8_3x	13.0	-	14.0	0.006	0.85
4	MJBKS-29	3g_8_4x	14.0	-	15.0	0.008	1.24
5	MJBKS-26	2a_4_1x	11.0	-	12.0	0.007	1.03
6	MJBKS-26	2a_4_2x	12.0	-	13.0	0.007	2.61
7	MJBKS-26	2a_4_3x	13.0	-	14.0	0.007	0.92
8	MJBKS-28	2a_8_1x	11.0	-	12.0	0.008	1.11
9	MJBKS-28	2a_8_2x	12.0	-	13.0	0.007	1.10
10	MJBKS-28	2a_8_3x	13.0	-	14.0	0.008	1.13
11	MJBKE-38	X_3_2x	16.0	-	17.0	0.028	1.33
12	MJBKE-38	X_3_3x	17.0	-	18.0	0.035	1.41
13	MJBKE-37	X_2_2x	16.0	-	17.0	0.011	0.71
14	MJBKE-13	III_36_5x	38.2	-	39.2	0.019	0.62

**Appendix 2-14 Grainmetric Analysis of  
Monomineral Fraction of Ilmenite**

Appendix 2-14 Grainmetric Analysis of Monomineral Fraction of Ilmenite

No.	Hole No.	Depth (m)	Class of granulation (mm)													
			-0.63	-0.40	-0.25	-0.20	-0.16	-0.125	-0.10	-0.09	-0.080	-0.07	-0.06	-0.05	-0.04	total
			+0.40	+0.25	+0.20	+0.16	+0.125	+0.10	+0.09	+0.080	+0.07	+0.06	+0.05	+0.04	+0.00	
1	MJBK-52	44.8 - 46.4	0.11	4.97	14.73	27.81	26.24	12.80	5.34	3.22	0.18	2.76	1.29	0.37	0.18	100.00
2	MJBK-50	38.5 - 42.0	0.46	17.59	19.06	20.60	19.29	9.65	5.17	3.47	0.15	2.39	1.62	0.31	0.24	100.00
3	MJBK-50	49.0 - 52.0	0.19	4.93	11.44	24.09	25.02	15.81	7.44	5.49	0.09	2.98	1.95	0.28	0.29	100.00
4	MJBK-50	54.6 - 57.2	1.03	12.57	17.23	23.24	20.24	11.07	5.30	3.95	0.24	2.92	1.42	0.47	0.32	100.00
5	MJBK-49	39.5 - 41.6	0.01	2.46	9.00	23.17	26.73	15.34	8.09	5.57	0.32	5.05	2.78	0.97	0.51	100.00
6	MJBK-49	48.0 - 52.4	0.58	14.23	20.87	23.15	20.87	9.43	4.32	2.72	0.14	2.32	0.95	0.24	0.18	100.00
7	MJBK-48	48.6 - 49.5	0.98	25.37	20.59	20.98	13.07	10.15	3.41	2.15	0.10	2.15	0.68	0.10	0.27	100.00
8	MJBK-54	54.3 - 57.6	1.11	11.40	17.97	20.79	24.74	12.17	5.34	2.67	0.26	2.34	0.91	0.23	0.07	100.00
9	MJBK-44	48.3 - 51.6	0.69	19.47	23.05	22.99	17.78	7.47	3.45	2.39	0.13	1.70	0.69	0.13	0.06	100.00
10	MJBK-43	41.0 - 43.7	0.11	7.00	15.65	22.65	22.98	13.97	7.11	4.60	0.55	3.61	1.42	0.33	0.20	100.00
11	MJBK-53	56.0 - 57.1	1.07	15.98	23.06	19.27	17.69	10.17	4.93	3.54	0.25	2.40	1.20	0.25	0.19	100.00
12	MJBK-38	60.0 - 62.0	2.15	21.90	21.83	19.97	17.68	8.66	3.72	2.08	0.07	1.29	0.36	0.14	0.15	100.00
13	MJBK-40	46.0 - 48.0	4.06	29.72	25.83	16.68	12.28	5.76	2.79	1.35	0.17	0.85	0.34	0.08	0.09	100.00
14	MJBKS-29	32.0 - 34.2	-	3.45	11.49	22.22	26.05	17.82	8.24	3.45	0.38	4.02	2.30	0.38	0.20	100.00
15	MJBKS-31	33.5 - 35.5	1.35	16.63	19.34	20.50	18.38	10.83	5.22	3.09	0.19	2.32	1.16	0.19	0.80	100.00
16	MJBKE-35	9.3 - 13.7	1.63	10.03	13.82	10.57	19.51	17.89	9.76	9.02	-	4.88	2.17	0.54	0.18	100.00

**Appendix 2-15 Grainmetric Analysis of  
Monomineral Fraction of Zircon**

Appendix 2-15 Grainmetric Analysis of Monomineral Fraction of Zircon

No.	Hole No.	Depth (m)	Class of granulation (mm)													
			-0.63	-0.40	-0.25	-0.20	-0.16	-0.125	-0.10	-0.09	-0.080	-0.07	-0.06	-0.05	-0.04	total
			+0.40	+0.25	+0.20	+0.16	+0.125	+0.10	+0.09	+0.080	+0.07	+0.06	+0.05	+0.04	+0.00	
1	MJBK-52	44.8 - 46.4	0.32	6.10	10.72	23.56	21.34	14.09	9.00	3.42	0.32	5.99	3.15	1.00	0.99	100.00
2	MJBK-50	38.5 - 42.0	0.42	6.39	8.91	20.76	19.66	16.34	7.74	6.90	0.27	6.69	4.91	1.01	-	100.00
3	MJBK-50	49.0 - 52.0	0.60	3.36	6.79	14.89	19.86	17.34	9.30	0.53	0.48	10.39	9.13	5.67	1.66	100.00
4	MJBK-50	54.6 - 57.2	0.71	9.60	12.45	21.40	20.57	14.96	8.82	2.93	0.62	4.74	1.23	1.74	0.23	100.00
5	MJBK-49	39.5 - 41.6	-	0.95	2.74	13.49	17.39	17.74	13.21	9.20	1.10	14.72	7.75	1.62	0.09	100.00
6	MJBK-49	48.0 - 52.4	0.58	7.19	11.63	18.93	21.80	16.98	7.84	4.31	0.39	6.87	2.35	0.98	0.15	100.00
7	MJBK-48	48.6 - 49.5	0.90	14.37	14.33	17.34	17.73	13.52	8.09	4.28	0.48	7.33	1.28	0.29	0.06	100.00
8	MJBK-54	54.3 - 57.6	1.87	9.92	10.30	23.57	22.10	15.10	7.54	4.22	0.40	3.85	0.77	0.29	0.07	100.00
9	MJBK-44	48.3 - 51.6	0.45	9.91	18.67	26.36	19.47	11.92	5.67	3.14	0.13	2.84	1.18	0.19	0.07	100.00
10	MJBK-43	41.0 - 43.7	0.62	4.62	7.71	17.76	22.53	17.83	12.46	5.22	0.36	7.68	2.68	0.50	0.03	100.00
11	MJBK-53	56.0 - 57.1	1.05	8.31	13.98	19.63	23.91	12.07	9.12	3.86	0.33	5.22	2.23	0.29	-	100.00
12	MJBK-38	60.0 - 62.0	2.16	17.45	14.57	22.45	18.05	12.69	4.32	5.57	0.22	1.88	0.04	0.32	0.28	100.00
13	MJBK-40	46.0 - 48.0	2.65	22.24	19.32	18.25	16.43	12.86	3.04	3.08	0.23	0.56	0.89	0.09	0.36	100.00
14	MJBKS-29	32.0 - 34.2	-	1.78	6.34	21.87	21.77	20.29	10.69	9.77	1.48	4.05	1.00	0.40	0.56	100.00
15	MJBKS-31	33.5 - 35.5	-	9.73	12.15	26.14	17.20	15.28	7.73	6.50	1.10	2.27	0.83	0.65	0.42	100.00
16	MJBKE-35	9.3 - 13.7	1.11	6.85	6.67	22.67	2.57	28.15	7.86	9.30	1.03	7.58	3.16	0.26	2.79	100.00

**Appendix 2-16 Chemical and Spectral Quantity Analysis  
of Ilmenite**

Appendix 2-16 Chemical and Spectral Quantity Analysis of Ilmenite

No.	Hole No.	Depth (m)	Content (%)											
			Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Ta <sub>2</sub> O <sub>5</sub>	Nb <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>5</sub>	V <sub>2</sub> O <sub>5</sub>	Sc <sub>2</sub> O <sub>3</sub>	ΣTR <sub>2</sub> O <sub>3</sub> +Y
1	MJBK-52	44.8 - 46.4	1.04	2.39	0.010	49.51	43.6	14.01	<0,0005	0.001	0.0169	0.182	0.0021	0.055
2	MJBK-50	38.5 - 42.0	1.08	2.59	0.020	49.01	44.04	20.29	<0,0005	0.001	0.0175	0.157	0.0024	0.057
3	MJBK-50	49.0 - 52.0	0.95	2.25	0.020	48.25	44.12	24.07	<0,0005	0.002	0.0180	0.175	0.0021	0.066
4	MJBK-50	54.6 - 57.2	0.95	2.26	0.020	49.06	43.30	21.91	<0,0005	0.002	0.0203	0.178	0.0022	0.097
5	MJBK-49	39.5 - 41.6	1.06	2.08	0.300	49.39	44.43	22.81	<0,0005	0.002	0.0260	0.188	0.0024	0.079
6	MJBK-49	48.0 - 52.4	0.98	2.18	0.020	48.65	43.93	26.76	<0,0005	0.004	0.0147	0.163	0.0017	0.066
7	MJBK-48	48.6 - 49.5	0.99	2.11	0.030	48.29	44.98	17.24	<0,0005	0.004	0.0235	0.177	0.0018	0.110
8	MJBK-54	54.3 - 57.6	0.80	1.82	0.030	50.40	42.74	12.93	<0,0005	0.006	0.0207	0.198	0.0021	0.062
9	MJBK-44	48.3 - 51.6	0.89	1.98	0.020	49.88	44.45	14.55	<0,0005	0.001	0.0158	0.169	0.0018	0.049
10	MJBK-43	41.0 - 43.7	0.97	2.02	0.020	48.53	45.23	20.11	<0,0005	0.005	0.0184	0.186	0.0020	0.062
11	MJBK-53	56.0 - 57.1	0.72	1.36	0.020	48.76	46.26	26.76	<0,0005	0.005	0.0155	0.161	0.0018	0.067
12	MJBK-38	60.0 - 62.0	0.60	1.16	0.010	50.48	44.92	21.73	<0,0005	0.003	0.0158	0.182	0.0019	0.039
13	MJBK-40	46.0 - 48.0	0.87	2.26	0.020	50.84	43.20	14.55	<0,0005	0.003	0.0197	0.194	0.0018	0.049
14	MJBKS-29	32.0 - 34.2	1.15	2.50	0.030	51.33	40.45	12.03	<0,0005	0.002	0.0610	0.165	0.0022	0.073
15	MJBKS-31	33.5 - 35.5	0.94	2.01	0.030	51.70	41.01	12.39	<0,0005	0.006	0.0420	0.173	0.0021	0.084
16	MJBKE-35	9.3 - 13.7	0.85	2.58	0.020	50.87	39.91	18.32	<0,0005	0.005	0.1560	0.182	0.0017	0.080



**Appendix 2-17 Chemical and Spectral Quantity Analysis  
of Zircon**

Appendix 2-17 Chemical and Spectral Quantity Analysis of Zircon

No.	Hole No.	Depth (m)	Content (%)					
			ZrO <sub>2</sub>	Sc <sub>2</sub> O <sub>3</sub>	Hf	Y	Th	TR <sub>2</sub> O <sub>3</sub>
1	MJBK-52	44.8 - 46.4	59.210	0.0196	0.58	0.046	<0,01	-
2	MJBK-50	38.5 - 42.0	59.300	0.0101	0.51	0.038	<0,01	-
3	MJBK-50	49.0 - 52.0	54.960	0.0092	0.51	0.07	<0,01	-
4	MJBK-50	54.6 - 57.2	61.100	0.0073	0.45	0.036	<0,01	-
5	MJBK-49	39.5 - 41.6	56.600	0.0081	0.53	0.047	<0,01	-
6	MJBK-49	48.0 - 52.4	59.400	0.0078	0.53	0.051	<0,01	-
7	MJBK-48	48.6 - 49.5	62.100	0.0057	0.54	0.04	<0,01	-
8	MJBK-54	54.3 - 57.6	63.870	0.0066	0.51	0.046	<0,01	-
9	MJBK-44	48.3 - 51.6	61.610	0.0075	0.49	0.046	<0,01	-
10	MJBK-43	41.0 - 43.7	60.000	0.0055	0.55	0.041	<0,01	-
11	MJBK-53	56.0 - 57.1	61.500	0.006	0.52	0.036	<0,01	-
12	MJBK-38	60.0 - 62.0	63.700	0.0061	0.43	0.032	<0,01	-
13	MJBK-40	46.0 - 48.0	64.300	0.0064	0.48	0.036	<0,01	-
14	MJBKS-29	32.0 - 34.2	62.100	0.007	0.43	0.037	<0,01	-
15	MJBKS-31	33.5 - 35.5	59.390	0.0075	0.46	0.044	<0,01	-
16	MJBKE-35	9.3 - 13.7	62.100	0.0044	0.56	0.063	<0,01	-