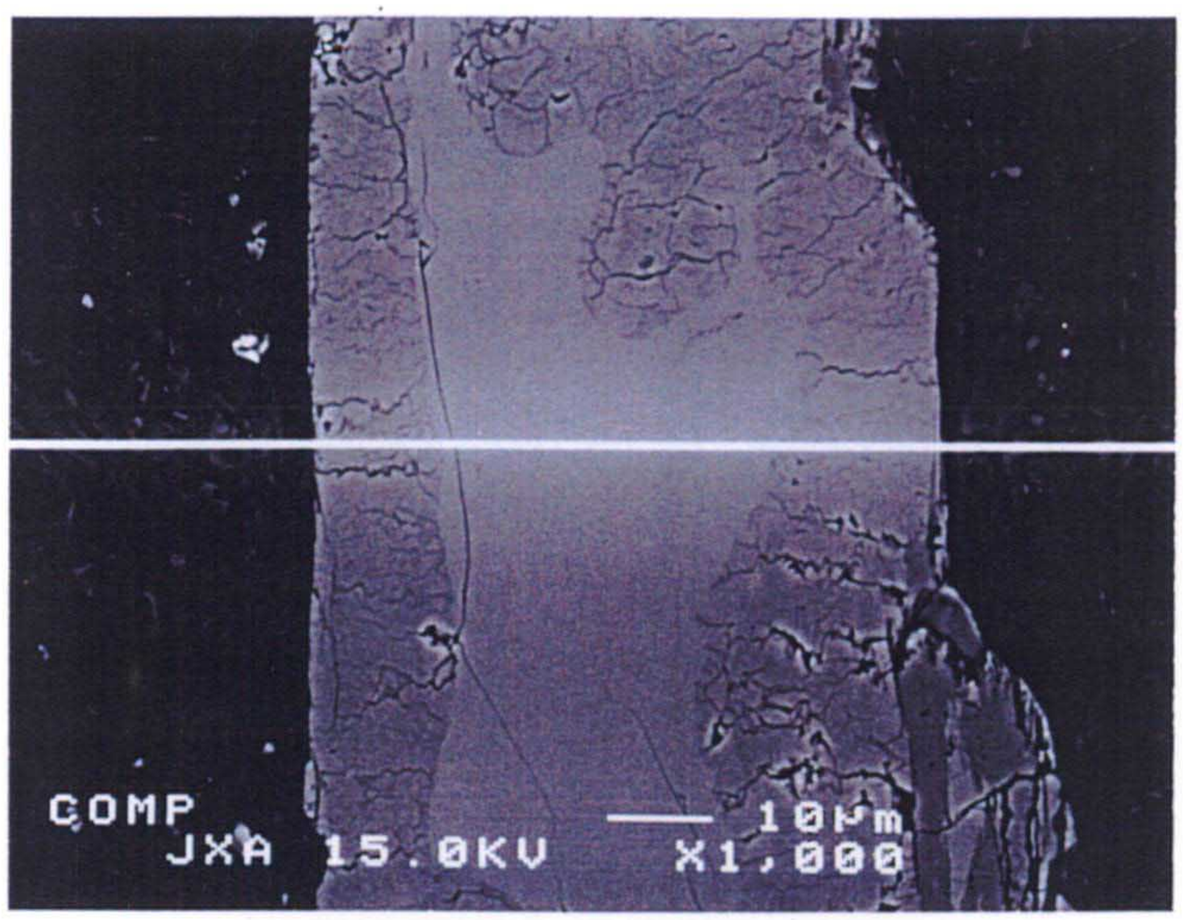
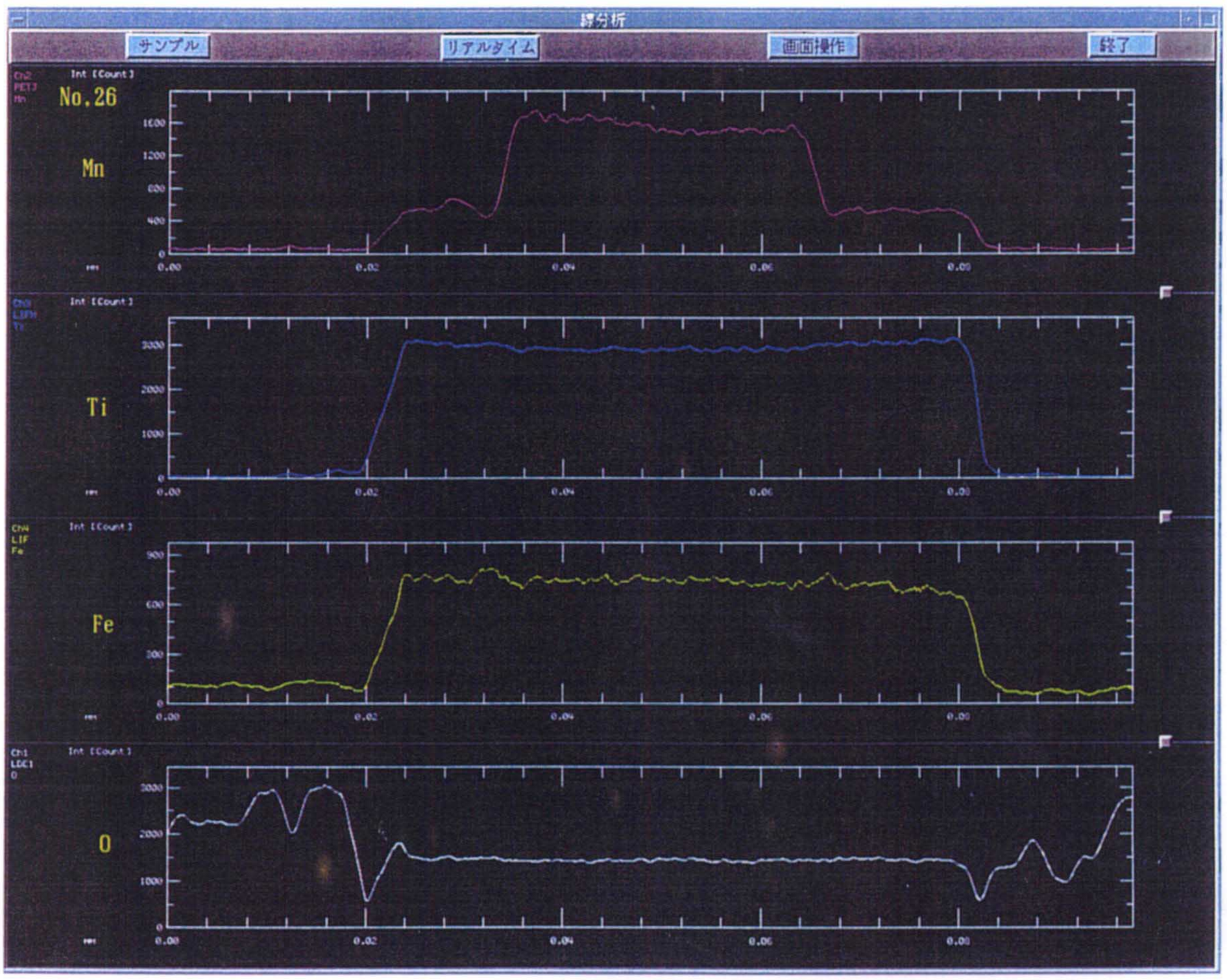


Ilmenite/Pseudorutile
from MJBKE-29 14.1m



EPMA LINE ANALYSIS RESULT Ilmenite

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposits

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1	LV	4265	N.A.	493.0	11.0	482.0	11.0	482.0		11.3	Syenite												
2	LV	4264	N.A.	490.3	14.0	476.3	14.0	476.3		14.4	Syenite												
3	LV	4262	N.A.	490.2	16.8	473.4	25.8	464.4	9.0	31.5	Hornfels												
4	LV	4263	N.A.	486.9	18.0	468.9	27.8	459.1	9.8	30.5	Syenite												
5	LV	4261	N.A.	484.2	19.0	465.2	19.0	465.2		19.3	Hornfels												
6	LV	4260	N.A.	491.1	4.2	486.9	4.2	486.9		4.4	Hornfels												
7	LV	4259	N.A.	489.8	4.2	485.6	4.2	485.6		4.4	Hornfels												
8	LV	4258	N.A.	487.7	5.5	482.2	5.5	482.2		7.5	Syenite												
9	LV	4257	N.A.	483.2	2.8	480.4	2.8	480.4		3.2	Syenite												
10	LV	4256	N.A.	484.3	6.5	477.8	21.2	463.1	14.7	31.2	Syenite												
11	LV	4351	N.A.	487.2	13.6	473.6	20.5	466.7	6.9	21.0	Hornfels												
12	LV	4352	N.A.	489.9	7.5	482.4	7.5	482.4		9.0	Hornfels												
13	LIII	4252	N.A.	485.0	15.0	470.0	15.0	470.0		15.8	Syenite												
14	LIII	4250	103	485.1	11.2	473.9	11.2	473.9		11.2	Syenite												
15	LIII	4251	102	482.0	15.2	466.8	15.2	466.8		15.2	Syenite												
16	LIII	4253	98	480.8	11.6	469.2	11.6	469.2		11.6	Syenite												
17	LIII	4297	334	477.0	12.0	465.0	12.0	465.0		12.0	Hornfels												
18	LIII	4254	98	477.8	10.2	467.6	10.2	467.6		10.2	Syenite												
19	LIII	4195	198	478.6	3.0	475.6	3.0	475.6		3.0	Syenite												
20	LIII	4196	102	479.2	6.0	473.2	6.0	473.2		6.0	Syenite												
21	LIII	4197	94	477.6	7.2	470.4	7.2	470.4		7.2	Syenite												
22	LIII	4194	100	476.2	9.0	467.2	9.0	467.2		9.5	Syenite												
23	LIII	4184	104	474.2	8.0	466.2	19.0	455.2	11.0	19.0	Syenite	14.0	18.7	4.7	14.2	6.4	Alluvial						
24	LIII	4185	96	473.5	7.2	466.3	10.5	463.0	3.3	10.5	Syenite												
25	LIII	4183	98	474.1	7.0	467.1	17.2	456.9	10.2	21.2	Syenite												
26	LIII	4255	94	475.9	8.0	467.9	29.5	446.4	21.5	30.5	Syenite	18.0	20.0	2.0	11.6	2.4	Eluvial						
27	LIII	4224	98	479.0	13.0	466.0	14.2	464.8	1.2	14.5	Syenite												
28	LIII	4223	198	486.0	5.0	481.0	5.0	481.0		9.5	Syenite	5.5	8.8	3.3	7.2	2.5	Eluvial						
29	LIII	4182	204	490.8	1.5	489.3	1.5	489.3		2.0	Granite												
30	LIII	4151	198	495.2	5.2	490.0	8.1	487.1	2.9	9.0	Granite												
31	LIII	4152	200	492.0	1.8	490.2	1.8	490.2		2.0	Granite												
32	LIII	4153	202	494.3	6.7	487.6	7.7	486.6	1.0	8.5	Syenite												
33	LI	4192		471.4	1.4	470.0	1.4	470.0		2.0	Syenite												
34	LI	4191	90	470.7	2.3	468.4	2.3	468.4		4.0	Syenite												
35	LI	4190	98	471.1	1.8	469.3	3.7	467.4	1.9	9.2	Syenite												
36	LI	4189	100	470.6	1.0	469.6	9.0	461.6	8.0	16.3	Syenite												
37	LI	4181	100	469.7	2.0	467.7	10.0	459.7	8.0	11.2	Syenite												
38	LI	4180	98	469.3	6.7	462.6	16.3	453.0	9.6	22.5	Syenite	8.3	22.0	13.7	10.8	1.6	Eluvial+Alluvial						
39	LI	4234	96	470.0	11.0	459.0	28.0	442.0	17.0	29.5	Syenite	25.1	28.2	3.1	15.5	3.0	Alluvial						
40	LI	4233	102	472.1	13.0	459.1	29.8	442.3	16.8	31.0	Syenite	27.4	29.6	2.2	13.3	2.1	Alluvial						
41	LI	4236	127	473.8	14.3	459.5	25.2	448.6	10.9	24.7	Syenite	19.5	22.7	3.2	15.0	3.4	Alluvial						
42	LI	4154	100	477.9	15.0	462.9	25.3	452.6	10.3	28.2	Syenite	13.0	15.0	2.0	31.3	2.5	Alluvial						
43	LI	4235	73	478.7	6.7	472.0	21.0	457.7	14.3	26.8	Syenite												
44	LI	4150	100	478.7	12.2	466.5	16.4	462.3	4.2	21.2	Syenite	16.5	21.0	4.5	18.5	4.3	Eluvial						
45	LI	4174	98	479.2	10.6	468.6	23.8	455.4	13.2	24.0	Syenite	10.5	12.0	1.5	19.6	4.7	Alluvial						
46	LI	4145	98	480.6	10.0	470.6	40.5	440.1	30.5	40.5	Syenite	12.0	12.8	0.8	265.2	54.8	Alluvial	12.0	12.8	0.8	265.2	54.8	Alluvial
47	LI	4175	100	480.9	6.5	474.4	16.2	464.7	9.7	17.0	Syenite	12.0	13.5	1.5	245.6	54.0	Alluvial	12.0	13.5	1.5	245.6	54.0	Alluvial
48	LI	4146	92	481.4	9.0	472.4	13.4	468.0	4.4	16.0	Syenite	9.7	13.4	3.7	70.8	14.9	Alluvial	12.1	13.4	1.3	199.0	42.9	Alluvial
49	LI	4176	106	482.6	4.2	478.4	16.2	466.4	12.0	16.2	Granite	13.0	16.0	3.0	15.2	3.2	Alluvial	15.5	16.2	0.7	58.9	13.5	Alluvial
50	LI	4147	100	482.4	4.0	478.4	41.0	441.4	37.0	41.0	Syenite	12.3	15.7	3.4	165.2	36.8	Alluvial	14.4	15.9	1.5	335.4	77.5	Alluvial
51	LI	4177	98	484.0	10.7	473.3	28.2	455.8	17.5	29.2	Granite	16.0	18.0	2.0	79.1	19.7	Alluvial	15.7	16.9	1.2	135.0	31.9	Alluvial
52	LI	4148	100	488.0	11.5	476.5	18.7	469.3	7.2	20.7	Syenite	17.7	18.7	1.0	36.9	6.5	Alluvial						
53	LI	4178	98	490.1	16.7	473.4	16.7	473.4		17.0	Hornfels												
54	LI	4149	98	491.2	8.0	483.2	8.0	483.2		9.0	Hornfels												
55	XLIX	3851		465.3	11.7	453.6	11.7	453.6		25.0	Syenite	11.7	24.0	12.3	20.1	3.1	Eluvial						
56	XLIX	3874	102	465.8	4.9	460.9	4.9	460.9		9.2	Syenite	4.9	6.9	2.0	18.9	2.5	Eluvial						
57	XLIX	2322	100	464.8	4.5	460.3	4.5	460.3		6.4	Syenite	4.5	5.4	0.9	24.5	2.3	Eluvial						
58	XLIX	3773	98	464.2	2.5	461.7	3.8	460.4	1.3	5.7	Syenite	3.8	5.7	1.9	15.3	2.6	Eluvial						
59	XLIX	2323	110	464.1	1.8	462.3	1.8	462.3		4.9	Syenite	1.8	4.8	3.0	10.4	2.0	Eluvial						
60	XLIX	3875	86	463.8	2.2	461.6	2.2	461.6		2.8	Syenite						Eluvial						
61	XLIX	2324	101	463.9	2.3	461.6	2.3	461.6		8.1	Syenite	5.0	8.0	3.0	11.0	1.5	Eluvial						
62	XLIX	3876	96	464.2	6.5	457.7	6.5	457.7		8.2	Syenite	6.5	8.1	1.6	15.4	2.3	Eluvial						
63	XLIX	2325	104	465.1	9.7	455.4	11.8	453.3	2.1	18.1	Syenite	11.8	18.0	6.2	15.2	2.0	Eluvial						
64	XLIX	3877	101	467.9	13.0	454.9	16.0	451.9	3.0	18.1	Syenite	16.0	18.0	2.0	11.7	1.3	Eluvial						
65	XLIX	2326	98	469.8	16.2	453.6	26.2	443.6	10.0	32.3	Syenite	30.7	31.9	1.2	20.1	5.9	Eluvial						
66	XLIX	3878	100	470.1	13.2	456.9	27.0	443.1	13.8	27.0	Syenite	25.0	27.0	2.0	1.1	0.3	Eluvial						
67	XLIX	2327	101	470.9	13.3	457.6	34.0	436.9	20.7	35.5	Syenite	27.9	35.4	7.5	14.0	2.7	Eluvial						
68	XLIX	4136	98	471.8	7.0	464.8	31.8	440.0	24.8	35.0	Monzonite	29.0	34.8	5.8	14.9	2.0	Eluvial						
69	XLIX	4144	100	471.8	4.8	467.0	19.2	452.6	14.4	34.0	Monzonite	28.8	33.8	5.0	21.3	2.8	Eluvial						
70	XLIX	4137	102	472.5	3.2	469.3	26.3	446.2	23.1	31.0	Granite												
71	XLIX	4138	228	477.2	7.0	470.2	10.7	466.5	3.7	36.0	Syenite	11.0	36.0	25.0	12.7	2.4	Eluvial						
72	XLIX	4168	72	479.0	10.7	468.3	13.5	465.5	2.8	30.2	Syenite	12.5	15.8	3.3	21.9	3.6	Eluvial						
73	XLIX	4139	106	480.1	10.0	470.1	17.8	462.3	7.8	22.2	Syenite	13.0	15.2	2.2	29.6	4.8	Alluvial	14.3	15.1	0.8	55.6	12.7	Alluvial
74	XLIX	4169	99	481.4	12.7	468.7	15.8	465.6	3.1	16.3	Syenite	14.5	15.0	0.5	18.6	3.4	Alluvial						
75	XLIX	4140	96	483.1	14.7	468.4	17.0	466.1	2.3	18.8	Granite												
76	XLIX	4170	85	484.8	15.7	469.1	18.5	466.3	2.8	19.1	Syenite												
77	XLIX	4141	88	486.5	14.5	472.0	21.6	464.9	7.1	23.2	Granite	20.5	23.0	2.5	15.0	4.2	Alluvial						
78	XLIX	4142	98	487.9	15.0	472.9	15.0	472.9		15.5	Syenite												
79	XLIX	4143	102	489.1	11.8	477.3	11.8	477.3		12.5	Syenite												
80	XLVII	3853		457.2	4.0	453.2	4.8	452.4	0.8	8.0	Syenite	4.8	7.5	2.7	12.4	1.6	Eluvial						
81	XLVII	3887	100	457.4	7.1	450.3	7.1	450.3		9.0	Syenite	7.1	9.0	1.9	8.9	1.9	Eluvial						
82	XLVII	2211A	96	458.3	5.4	452.9	9.9	448.4	4.5	13.0	Syenite	5.4	9.9	4.5	12.3	1.8	Eluvial+Alluvial						
83	XLVII	3868	98	459.0	4.5	454.5	9.7	449.3	5.2	13.0	Syenite	7.0	13.0	6.0	28.2	5.0	Eluvial+Alluvial						
84	XLVII	2211	100	458.7	3.7	455.0	8.7	450.0	5.0	15.0	Syenite	8.7	12.7	4.0	10.6	1.7	Eluvial						
85	XLVII	3869	106	458.2	3.0	455.2	11.0	447.2	8.0	15.0	Syenite	11.0	14.0	3.0	12.7	1.3	Eluvial						
86	XLVII	2212	98	458.5	4.0	454.5	12.4	446.1	8.4	21.0	Syenite	12.4	21.0	8.6	8.0	1.1	Eluvial						
87	XLVII	3870	100	458.6	3.0	455.6	14.3	444.3	11.3	19.0	Syenite	15.7	17.7	2.0	4.4	2.6	Eluvial						
88	XLVII	2213	90	460.2	9.4	450.8	16.5	443.7	7.1	23.6	Syenite						Eluvial						
89	XLVII	3871	104	460.8	8.0	452.8	17.5	443.3	9.5	22.7	Syenite	17.5	20.0	2.5	6.8	1.2	Eluvial						
90	XLVII	2214	94	461.4	12.0	449.4	33.0	428.4	21.0	33.0	Syenite	24.3	33.3	9.0	16.2	3.2	Alluvial						
91	XLVII	3872	102	462.3	16.0	446.3	20.0	442.3	4.0	34.0	Syenite	20.0	32.5	12.5	13.6	2.6	Eluvial						
92	XLVII	2215	98	463.4	12.0	451.4	12.0	451.4		19.1	Monzonite	12.0	19.0	7.0	20.4	1.9	Eluvial						
93	XLVII	3873	114	464.8	6.5	458.3	12.3	452.5	5.8	13.5	Monzonite	12.3	13.3	1.0	24.7	2.2	Eluvial						
94	XLVII	2216	100	466.7	9.0	457.7	9.0	457.7		22.1	Monzonite	9.0	22.0	13.0	28.1	3.0	Eluvial						
95	XLVII	4003	92	468.5	10.0	458.5	10.0	458.5		20.0	Monzonite	10.0	20.0	10.0	34.5	2.1	Eluvial						
96	XLVII	4004	104	470.6	8.0	462.6	8.0	462.6		11.5	Monzonite	8.0	11.0	3.0	23.8	1.5	Eluvial						
97	XLVII	4005	100	472.2	11.0	461.2	11.0	461.2		23.0	Monzonite	11.0	22.5	11.5	32.2	2.5	Eluvial						
98	XLVII	4006	106	472.8	12.5	460.3	21.5	451.3	9.0	25.5	Monzonite	17.0	23.5	6.5	17.8	1.9	Alluvial						
99	XLVII	4007	100	474.2	30.7	443.5	31.8	442.4	1.1	32.0	Syenite	16.0	31.8	15.8	10.0	3.1	Alluvial						
100	XLVII	4008	92	476.1	13.5	462.6	25.4	450.7	11.9	26.0	Syenite	13.5	19.0	5.5	8.3	14.9	Alluvial						
101	XLVII	4009	100	477.8	18.0	459.8	18.0	459.8		18.0	Syenite												
102	XLV	3694		453.0	4.5	448.5	4.5	448.5		21.5	Syenite	4.5	20.0	15.5	15.9	2.3	Eluvial						
103	XLV	3697	100	452.7	5.5	447.2	5.5	447.2		14.3	Syenite	3.3	14.3	11.0	13.6	1.6	Eluvial						
104	XLV	2217	108	452.2	4.9	447.3	4.9	447.3		16.1	Syenite	4.9	11.1	6.2	17.1	2.0	Eluvial						
105	XLV	3698	86	452.4	4.0	448.4	4.0	448.4		14.0	Syenite	6.0	13.0	7.0	17.1	1.9	Eluvial						
106	XLV	2218	110	452.7	5.0	447.7	5.0	447.7		11.0	Syenite	5.0	11.0	6.0	13.5	1.4	Eluvial						
107	XLV	3699	91	453.1	6.0	447.1	6.0	447.1		12.5	Monzonite	6.0	11.8	5.8	15.4	1.1	Eluvial						
108	XLV	2219	96	454.0	2.2	451.8	2.2	451.8		17.0	Syenite	4.0	17.0	13.0	14.6	1.3	Eluvial						
109	XLV	3866	104	455.3	4.3	451.0	4.3	451.0		22.0	Syenite	6.3	20.0	13.7	18.2	2.8	Eluvial						
110	XLV	2220	103	455.7	4.5	451.2	9.0	446.7	4.5	17.5	Monzonite	10.0	17.5	7.5	14.5	1.6	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
111	XLV	3865	102	456.3	7.3	449.0	28.0	428.3	20.7	29.0	Syenite	21.5	28.7	7.2	27.0	5.0	Eluvial+Alluvial						
112	XLV	2221	98	457.0	6.8	450.2	30.0	427.0	23.2	32.0	Syenite	24.0	32.0	8.0	25.7	4.7	Eluvial+Alluvial						
113	XLV	3777	104	457.2	5.0	452.2	22.0	435.2	17.0	23.0	Syenite	18.3	23.0	4.7	13.9	2.9	Eluvial+Alluvial						
114	XLV	2222	96	459.2	14.5	444.7	19.0	440.2	4.5	21.6	Syenite	17.3	19.0	1.7	27.9	2.1	Eluvial+Alluvial						
115	XLV	3864	104	460.9	14.5	446.4	25.5	435.4	11.0	28.0	Syenite	23.5	25.5	2.0	9.0	1.0	Alluvial						
116	XLV	2223	96	461.1	11.0	450.1	29.0	432.1	18.0	30.6	Monzonite	24.5	28.0	3.5	23.2	3.7	Alluvial						
117	XLV	3863	106	462.1	13.0	449.1	27.3	434.8	14.3	30.0	Monzonite	20.0	29.3	9.3	22.2	4.6	Eluvial+Alluvial	35.2	37.2	2.0	50.1	11.8	Alluvial
118	XLV	2224	88	463.3	8.0	455.3	30.0	433.3	22.0	32.0	Monzonite	26.1	32.0	5.9	26.2	3.8	Eluvial+Alluvial						
119	XLV	3862	96	464.1	8.5	455.6	39.2	424.9	30.7	40.0	Monzonite	25.5	40.0	14.5	21.9	2.0	Eluvial+Alluvial						
120	XLV	2225	104	464.9	14.1	450.8	14.1	450.8		14.1	Monzonite												
121	XLV	2225A	198	468.3	13.6	454.7	13.6	454.7		13.6	Syenite												
122	XLIII	2227		449.3	3.5	445.8	8.2	441.1	4.7	16.1	Monzonite	8.2	16.0	7.8	20.4	1.8	Eluvial						
123	XLIII	1574	94	449.0	3.3	445.7	5.8	443.2	2.5	12.0	Syenite	5.8	7.0	1.2	18.1	1.3	Eluvial						
124	XLIII	3857	110	448.7	3.8	444.9	9.8	438.9	6.0	12.0	Syenite	9.0	18.0	9.0	16.9	2.2	Eluvial+Alluvial						
125	XLIII	2228	195	448.7	6.1	442.6	6.1	442.6		16.0	Syenite	6.1	16.0	9.9	23.9	1.4	Eluvial	7.0	8.9	1.9	52.4	1.7	Eluvial
126	XLIII	3858	108	449.7	4.7	445.0	4.7	445.0		18.5	Syenite	4.7	18.0	13.3	27.2	3.1	Eluvial						
127	XLIII	2229	93	450.3	5.5	444.8	5.5	444.8		17.6	Monzonite	7.5	17.5	10.0	36.9	2.5	Eluvial	14.4	17.2	2.8	57.3	3.7	Eluvial
128	XLIII	3859	106	451.1	8.2	442.9	8.2	442.9		16.2	Monzonite	8.2	16.2	8.0	14.5	1.5	Eluvial						
129	XLIII	2088	94	451.4	5.8	445.6	23.3	428.1	17.5	27.7	Monzonite	17.5	27.5	10.0	20.2	3.6	Eluvial+Alluvial						
130	XLIII	3860	104	450.8	6.2	444.6	18.0	432.8	11.8	28.5	Monzonite	16.0	28.0	12.0	15.8	5.9	Eluvial+Alluvial						
131	XLIII	2089	94	452.8	5.8	447.0	18.8	434.0	13.0	26.5	Monzonite	19.0	25.7	6.7	24.2	2.0	Eluvial						
132	XLIII	3861	100	454.3	4.5	449.8	22.6	431.7	18.1	25.2	Monzonite	15.0	25.2	10.2	17.5	3.0	Eluvial+Alluvial						
133	XLIII	2090	100	455.5	13.0	442.5	13.0	442.5		22.6	Monzonite	12.0	22.5	10.5	25.5	2.3	Eluvial+Alluvial						
134	XLIII	2091	198	456.3	11.2	445.1	11.2	445.1		24.0	Monzonite	8.2	16.0	7.8	20.4	1.8	Eluvial+Alluvial	15.0	17.0	2.0	54.3	3.5	Eluvial
135	XLIII	2092	200	458.4	11.6	446.8	11.6	446.8		15.5	Monzonite												
136	XLIII	2248	194	460.8	2.0	458.8	2.0	458.8		4.2	Monzonite												
137	XLIII	2252	408	462.8	2.8	460.0	2.8	460.0		11.5	Monzonite	2.8	11.2	8.4	13.8	1.9	Eluvial						
138	XLIII	2258	404	465.2	2.5	462.7	2.5	462.7		3.8	Monzonite												
139	XLI	2230		449.2	5.7	443.5	22.2	427.0	16.5	25.3	Syenite	15.3	25.2	9.9	21.2	4.0	Eluvial+Alluvial						
140	XLI	3855	92	447.0	4.4	442.6	20.2	426.8	15.8	23.5	Syenite	13.0	23.0	10.0	19.4	3.8	Eluvial+Alluvial						
141	XLI	2231	106	447.0	1.0	446.0	14.5	432.5	13.5	16.4	Syenite	9.0	13.0	4.0	12.8	2.9	Alluvial						
142	XLI	3856	104	446.4	2.8	443.6	13.8	432.6	11.0	17.5	Syenite	12.0	17.0	5.0	12.5	2.4	Eluvial+Alluvial						
143	XLI	2232	106	445.5	4.2	441.3	7.4	438.1	3.2	17.0	Syenite	4.2	16.9	12.7	15.0	2.3	Eluvial+Alluvial						
144	XLI	2233	192	444.5	4.0	440.5	4.0	440.5		9.1	Syenite	7.0	9.0	2.0	12.2	2.0	Eluvial+Alluvial						
145	XLI	3700	98	444.7	6.1	438.6	6.1	438.6		12.2	Syenite	6.1	10.0	3.9	13.7	2.3	Eluvial+Alluvial						
146	XLI	2234	104	445.4	5.0	440.4	11.7	433.7	6.7	15.1	Syenite	11.7	15.0	3.3	13.3	2.0	Eluvial+Alluvial						
147	XLI	3701	100	444.8	5.0	439.8	20.8	424.0	15.8	21.5	Syenite	13.0	20.8	7.8	21.9	5.2	Alluvial						
148	XLI	2235	100	445.0	5.0	440.0	20.5	424.5	15.5	21.1	Monzonite	13.7	20.5	6.8	19.9	7.7	Alluvial						
149	XLI	3702	104	445.6	5.0	440.6	17.0	428.6	12.0	21.5	Monzonite	12.8	21.3	8.5	20.8	2.6	Eluvial+Alluvial						
150	XLI	2236	90	446.5	1.5	445.0	15.4	431.1	13.9	21.8	Syenite	14.1	21.8	7.7	20.8	2.1	Eluvial+Alluvial						
151	XLI	3703	106	447.7	7.0	440.7	15.0	432.7	8.0	22.5	Syenite	7.0	21.5	14.5	11.5	1.7	Eluvial+Alluvial						
152	XLI	2237	100	448.3	12.3	436.0	12.3	436.0		14.3	Syenite	12.3	14.2	1.9	18.7	1.3	Eluvial						
153	XLI	3704	130	449.6	10.4	439.2	17.0	432.6	6.6	18.0	Monzonite	10.4	17.0	6.6	23.2	1.7	Eluvial						
154	XLI	2238	66	450.3	6.9	443.4	6.9	443.4		20.1	Monzonite	6.9	20.1	13.2	16.9	1.4	Eluvial						
155	XLI	3705	60	450.9	7.8	443.1	7.8	443.1		16.4	Monzonite	7.8	16.0	8.2	21.7	1.6	Eluvial						
156	XLI	3706	90	451.5	7.1	444.4	7.1	444.4		18.6	Monzonite	7.1	10.9	3.8	17.6	1.4	Eluvial						
157	XLI	3707	100	452.0	6.2	445.8	6.2	445.8		15.6	Monzonite	10.3	15.0	4.7	17.8	2.0	Eluvial						
158	XLI	2247	148	453.4	8.5	444.9	8.5	444.9		16.5	Monzonite	8.5	16.4	7.9	29.9	1.3	Eluvial						
159	XXXIX	2342		446.4	0.7	445.7	5.0	441.4	4.3	14.0	Syenite	0.2	14.0	13.8	25.8	4.7	Eluvial+Alluvial						
160	XXXIX	2341	98	449.2	1.9	447.3	4.0	445.2	2.1	17.2	Syenite	1.9	17.2	15.3	17.9	3.4	Eluvial+Alluvial						
161	XXXIX	2340	98	450.0	2.5	447.5	9.0	441.0	6.5	20.1	Syenite	7.0	20.0	13.0	16.3	3.0	Eluvial+Alluvial						
162	XXXIX	3001	36	450.1	3.2	446.9	10.0	440.1	6.8	17.0	Syenite	3.2	16.7	13.5	17.3	3.5	Eluvial+Alluvial						
163	XXXIX	2339	160	450.1	3.1	447.0	11.0	439.1	7.9	19.0	Syenite	5.0	19.0	14.0	17.6	3.3	Eluvial+Alluvial						
164	XXXIX	2079	90	449.5	5.0	444.5	13.0	436.5	8.0	22.0	Syenite	13.0	17.0	4.0	11.8	2.1	Eluvial						
165	XXXIX	2338	115	448.8	6.0	442.8	24.4	424.4	18.4	26.0	Syenite	19.0	26.0	7.0	26.3	4.7	Eluvial+Alluvial						
166	XXXIX	2080	84	447.5	7.0	440.5	21.8	425.7	14.8	26.8	Syenite	15.0	24.0	9.0	23.0	4.8	Eluvial+Alluvial						
167	XXXIX	2337	114	446.2	4.0	442.2	15.7	430.5	11.7	20.2	Syenite	11.0	20.2	9.2	13.1	2.7	Eluvial+Alluvial						
168	XXXIX	2081	83	444.8	5.6	439.2	5.6	439.2		15.0	Syenite	5.6	8.0	2.4	10.6	2.3	Eluvial						
169	XXXIX	2336	114	442.6	3.6	439.0	3.6	439.0		14.1	Syenite	3.6	14.0	10.4	11.9	1.9	Eluvial						
170	XXXIX	2082	82	442.1	1.8	440.3	1.8	440.3		15.0	Syenite	1.8	14.7	12.9	10.7	2.1	Eluvial						
171	XXXIX	2335	110	441.2	1.5	439.7	10.0	431.2	8.5	17.6	Monzonite	8.2	17.5	9.3	15.8	2.1	Eluvial+Alluvial						
172	XXXIX	2083	84	441.2	3.0	438.2	16.0	425.2	13.0	18.1	Syenite	9.0	18.0	9.0	25.5	4.9	Eluvial+Alluvial						
173	XXXIX	2334	120	440.7	6.0	434.7	17.0	423.7	11.0	18.5	Monzonite	10.0	17.0	7.0	26.3	4.9	Alluvial						
174	XXXIX	2084	82	440.7	4.0	436.7	12.7	428.0	8.7	19.8	Syenite	9.0	19.5	10.5	17.4	3.5	Eluvial+Alluvial						
175	XXXIX	2333	118	440.4	3.2	437.2	10.0	430.4	6.8	20.6	Syenite	7.9	20.5	12.6	10.8	2.0	Eluvial+Alluvial						
176	XXXIX	2085	82	440.5	4.2	436.3	4.2	436.3		10.3	Syenite	4.2	8.0	3.8	11.6	1.7	Eluvial						
177	XXXIX	2332	112	441.8	5.0	436.8	5.0	436.8		10.0	Syenite	4.0	10.0	6.0	12.8	1.5	Eluvial						
178	XXXIX	2086	86	443.2	6.0	437.2	6.0	437.2		12.0	Monzonite	6.0	11.5	5.5	16.2	1.4	Eluvial						
179	XXXIX	2331	114	443.6	6.8	436.8	6.8	436.8		14.1	Monzonite	6.8	14.0	7.2	21.9	1.7	Eluvial						
180	XXXIX	2087	82	443.9	8.0	435.9	8.0	435.9		14.5	Monzonite	8.0	14.4	6.4	20.3	1.9	Eluvial						
181	XXXVII	2042		441.6	1.0	440.6	8.2	433.4	7.2	22.5	Syenite	6.3	20.0	13.7	18.2	1.4	Eluvial+Alluvial						
182	XXXVII	2343	102	440.7	2.3	438.4	9.2	431.5	6.9	27.0	Monzonite	5.7	26.8	21.1	39.3	3.5	Eluvial+Alluvial	10.3	14.1	3.8	57.7	8.7	Alluvial
183	XXXVII	2344	98	440.3	1.8	438.5	15.2	425.1	13.4	20.2	Syenite	6.5	16.2	9.7	47.6	8.7	Alluvial	10.3	16.0	5.7	55.9	10.2	Alluvial
184	XXXVII	2345	102	439.9	2.8	437.1	9.0	430.9	6.2	15.5	Monzonite	6.7	15.3	8.6	20.3	4.0	Eluvial+Alluvial	7.7	8.9	1.2	53.6	12.9	Alluvial
185	XXXVII	2999	79	440.3	1.5	438.8	9.5	430.8	8.0	16.3	Monzonite	3.4	16.1	12.7	20.6	1.6	Eluvial+Alluvial						
186	XXXVII	2346	128	442.2	1.0	441.2	5.8	436.4	4.8	25.8	Syenite	2.0	25.0	23.0	17.7	3.2	Eluvial+Alluvial						
187	XXXVII	2347	100	443.7	1.0	442.7	5.8	437.9	4.8	27.3	Syenite	3.9	27.0	23.1	23.5	4.2	Eluvial+Alluvial	3.9	5.9	2.0	58.7	13.0	Alluvial
188	XXXVII	2348	102	444.2	1.5	442.7	7.8	436.4	6.3	23.0	Syenite	6.1	23.0	16.9	16.7	2.7	Eluvial+Alluvial						
189	XXXVII	2239	98	444.9	3.5	441.4	18.0	426.9	14.5	22.3	Syenite	14.4	22.0	7.6	16.4	2.9	Eluvial+Alluvial						
190	XXXVII	2349	98	445.2	5.0	440.2	24.0	421.2	19.0	25.0	Syenite	15.0	24.0	9.0	24.2	4.7	Alluvial						
191	XXXVII	2240	97	445.2	5.0	440.2	23.3	421.9	18.3	24.6	Syenite	14.0	24.6	10.6	20.7	4.5	Eluvial+Alluvial						
192	XXXVII	2350	100	444.2	5.3	438.9	16.0	428.2	10.7	21.0	Syenite	13.5	16.0	2.5	26.9	5.2	Eluvial+Alluvial						
193	XXXVII	2241	96	442.1	5.0	437.1	16.0	426.1	11.0	23.3	Monzonite	17.9	23.2	5.3	13.9	2.3	Eluvial+Alluvial						
194	XXXVII	2351	100	439.5	0.5	439.0	18.0	421.5	17.5	20.6	Syenite	14.0	20.5	6.5	16.7	2.5	Eluvial+Alluvial						
195	XXXVII	2242	98	438.4	3.0	435.4	17.0	421.4	14.0	17.5	Monzonite	6.4	17.0	10.6	19.8	4.5	Alluvial						
196	XXXVII	2352	102	438.9	3.0	435.9	13.8	425.1	10.8	22.0	Syenite	9.0	22.0	13.0	17.7	3.3	Eluvial+Alluvial						
197	XXXVII	2243	97	439.4	4.2	435.2	12.3	427.1	8.1	17.4	Syenite	12.3	17.3	5.0	14.0	2.0	Eluvial						
198	XXXVII	2353	94	438.7	6.0	432.7	6.0	432.7		16.0	Syenite	6.0	16.0	10.0	17.2	3.1	Eluvial						
199	XXXVII	2244	97	437.4	6.0	431.4	6.0	431.4		18.0	Syenite	6.0	18.0	12.0	16.3	2.9	Eluvial						
200	XXXVII	2354	101	436.8	4.6	432.2	4.6	432.2		17.0	Syenite	4.6	17.0	12.4	15.3	2.7	Eluvial+Alluvial						
201	XXXVII	2245	100	436.5	3.5	433.0	9.8	426.7	6.3	11.1	Syenite	5.7	11.0	5.3	42.9	8.5	Eluvial+Alluvial	5.5	8.0	2.5	64.3	12.3	Alluvial
202	XXXVII	2355	98	437.1	4.0	433.1	12.7	424.4	8.7	14.5	Monzonite	7.0	14.5	7.5	24.0	14.5	Eluvial+Alluvial						
203	XXXVII	2246	101	439.1	5.5	433.6	17.7	421.4	12.2	18.6	Monzonite	8.7	18.5	9.8	19.0	3.7	Eluvial+Alluvial						
204	XXXVII	2246A	198	440.6	7.0	433.6	18.0	422.6	11.0	19.6	Monzonite	10.5	19.5	9.0	27.4	5.1	Eluvial+Alluvial						
205	XXXVII	2251	198	441.5	7.6	433.9	18.0	423.5	10.4	18.4	Monzonite	10.6	18.4	7.8	22.7	5.0	Eluvial+Alluvial						
206	XXXVII	4015	102	442.1	6.4	435.7	12.8	429.3	6.4	15.0	Monzonite	9.0	15.0	6.0	22.4	4.8	Eluvial+Alluvial						
207	XXXVI	2041		440.7		440.7	3.5	437.2	3.5	18.2	Monzonite	2.0	17.8	15.8	24.7	1.7	Eluvial	4.3	5.8	1.5	51.2	8.2	Alluvial
208	XXXVI	521	100	440.1	2.4	437.7	3.6	436.5	1.2	20.2	Monzonite	3.6	20.2	16.6	26.4	0.9	Eluvial						
209	XXXVI	522	137	439.2	3.7	435.5	11.7	427.5	8.0	18.0	Monzonite	5.8	18.0	12.2	23.2	2.1	Eluvial+Alluvial						
210	XXXVI	2998	120	438.8	3.3	435.5	12.0	426.8	8.7	18.0	Monzonite	7.5	14.0	6.5	18.7	3.5	Eluvial+Alluvial						
211	XXXVI	524	95	438.7	2.5	436.2	10.0	428.7	7.5	19.0	Syenite	8.0	10.0	2.0	5.5	0.6	Alluvial						
212	XXXVI	525	114	440.0	2.1	437.9	6.7	433.3	4.6	13.0	Syenite	3.0	13.0	10.0	23.3	5.2	Eluvial+Alluvial	5.1	6.2	1.1	53.5	13.0	Alluvial
213	XXXVI	526	110	442.6	4.5	438.1	6.0	436.6	1.5	16.0	Syenite	4.5	16.0	11.5	16.7	3.4	Eluvial+Alluvial						
214	XXXVI	160	92	442.6	3.2	439.4	4.8	437.8	1.6	15.0	Syenite	1.2	4.8	3.6	17.5	1.8	Alluvial						
215	XXXVI	527	100	442.7	2.8	439.9	7.3	435.4	4.5	18.0	Syenite	6.4	18.0	11.6	20.6	3.6	Eluvial+Alluvial						
216	XXXVI	528	98	443.2	3.8	439.4	18.0	425.2	14.2	20.0	Monzonite	12.0	20.0	8.0	19.7	3.8	Eluvial+Alluvial						
217	XXXVI	529	100	443.6	4.5	439.1	27.2	416.4	22.7	22.8	Monzonite	12.0	22.8	10.8	24.5	0.3	Eluvial+Alluvial						
218	XXXVI	530	100	444.2	5.0	439.2	23.6	420.6	18.6	24.3	Monzonite	15.4	24.3	8.9	28.8	6.0	Alluvial						
219	XXXVI	531	100	443.8	7.0	436.8	24.0	419.8	17.0	24.4	Monzonite	14.6	24.4	9.8	21.7	4.6	Eluvial+Alluvial						
220	XXXVI	532	98	442.5	6.0	436.5	22.4	420.1	16.4	23.2	Monzonite	12.1	23.2	11.1	28.7	6.4	Eluvial+Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
221	XXXVI	235	90	440.8	2.3	438.5	14.7	426.1	12.4	17.5	Syenite	12.0	17.5	5.5	25.4	4.8	Eluvial+Alluvial						
222	XXXVI	533	102	437.8	1.6	436.2	11.2	426.6	9.6	12.2	Syenite	9.5	12.2	2.7	20.2	4.4	Eluvial+Alluvial						
223	XXXVI	534	100	436.8	2.0	434.8	6.5	430.3	4.5	10.2	Syenite	6.5	10.2	3.7	13.2	2.2	Eluvial						
224	XXXVI	535	94	436.7	2.3	434.4	10.2	426.5	7.9	12.5	Syenite	6.0	12.5	6.5	18.1	3.7	Eluvial+Alluvial						
225	XXXVI	536	102	437.0	4.0	433.0	15.5	421.5	11.5	16.0	Syenite	6.0	16.0	10.0	27.6	5.8	Eluvial+Alluvial						
226	XXXVI	537	96	436.6	4.7	431.9	14.3	422.3	9.6	14.7	Syenite	4.8	14.7	9.9	52.7	7.1	Eluvial+Alluvial	7.0	8.8	1.8	55.1	12.7	Alluvial
227	XXXVI	3774	104	435.7	2.0	433.7	11.8	423.9	9.8	13.1	Monzonite	2.0	11.8	9.8	21.1	3.9	Eluvial+Alluvial						
228	XXXVI	539	96	435.7	3.2	432.5	6.7	429.0	3.5	7.7	Monzonite	3.2	6.7	3.5	28.5	7.1	Eluvial+Alluvial						
229	XXXVI	540	100	437.8	7.1	430.7	7.1	430.7		7.4	Monzonite												
230	XXXVI	541	100	438.3	7.7	430.6	7.7	430.6		9.0	Monzonite	6.1	9.0	2.9	17.8	1.9	Eluvial+Alluvial						
231	XXXVI	542	100	438.7	8.0	430.7	8.0	430.7		10.0	Monzonite	8.0	10.0	2.0	33.2	1.9	Eluvial						
232	XXXVI	543	100	438.8	8.1	430.7	8.1	430.7		12.0	Monzonite	8.1	12.0	3.9	32.2	2.0	Eluvial						
233	XXXVI	3882	100	439.3	6.0	433.3	6.0	433.3		10.5	Monzonite	5.3	10.4	5.1	18.8	2.1	Eluvial+Alluvial						
234	XXXVI	545	200	440.3	8.0	432.3	8.0	432.3		12.0	Monzonite	8.0	12.0	4.0	29.6	2.4	Eluvial						
235	XXXVI	546	102	441.1	8.0	433.1	10.0	431.1	2.0	13.6	Gabbro	10.0	13.6	3.6	30.1	2.4	Eluvial						
236	XXXVI	547	103	442.0	4.0	438.0	6.3	435.7	2.3	13.5	Gabbro	4.0	13.5	9.5	64.9	5.6	Eluvial+Alluvial	5.6	13.4	7.8	70.4	5.5	Eluvial+Alluvial
237	XXXVI	548	93	442.5	4.8	437.7	4.8	437.7		4.8	Syenite												
238	XXXVI	549	102	443.1	5.0	438.1	5.0	438.1		5.0	Syenite												
239	XXXVI	550	98	443.9	3.2	440.7	3.2	440.7		4.3	Syenite												
240	XXXV	1958		437.5	3.5	434.0	3.5	434.0		15.5	Syenite	3.5	15.0	11.5	18.9	1.7	Eluvial+Alluvial						
241	XXXV	3991	106	436.8	4.3	432.5	4.3	432.5		16.0	Gabbro	6.0	15.1	9.1	18.1	0.5	Eluvial+Alluvial						
242	XXXV	3990	106	437.4	5.0	432.4	5.0	432.4		20.6	Gabbro	5.0	20.0	15.0	23.3	0.8	Eluvial+Alluvial						
243	XXXV	3989	54	438.1	5.5	432.6	7.0	431.1	1.5	25.5	Gabbro	7.0	22.0	15.0	25.4	0.9	Eluvial+Alluvial						
244	XXXV	2068	50	438.8	5.0	433.8	7.0	431.8	2.0	20.6	Gabbro	7.0	18.0	11.0	27.0	1.9	Eluvial+Alluvial	6.8	8.3	1.5	84.7	11.2	Eluvial
245	XXXV	3660	50	439.2	4.0	435.2	7.5	431.7	3.5	26.0	Gabbro	4.0	25.5	21.5	18.6	0.7	Eluvial+Alluvial						
246	XXXV	3661	50	439.3	4.0	435.3	8.0	431.3	4.0	21.0	Gabbro		18.0	18.0	22.3	2.8	Eluvial+Alluvial						
247	XXXV	2069	50	439.1	4.8	434.3	6.5	432.6	1.7	15.6	Gabbro	4.8	12.4	7.6	22.9	1.7	Eluvial+Alluvial						
248	XXXV	2040	44	438.8	3.8	435.0	3.8	435.0		16.2	Gabbro	3.8	16.0	12.2	17.5	1.6	Eluvial+Alluvial						
249	XXXV	3662	44	438.6	5.7	432.9	5.7	432.9		28.0	Gabbro	9.2	25.0	15.8	21.0	0.5	Eluvial+Alluvial						
250	XXXV	2357	44	438.5	5.3	433.2	8.2	430.3	2.9	22.7	Gabbro	6.6	22.5	15.9	25.0	1.0	Eluvial+Alluvial						
251	XXXV	3663	50	438.4	2.7	435.7	14.0	424.4	11.3	23.0	Gabbro	6.5	22.5	16.0	24.1	2.5	Eluvial+Alluvial	12.8	14.0	1.2	82.3	16.5	Alluvial
252	XXXV	2070	50	438.1	2.7	435.4	11.7	426.4	9.0	17.6	Gabbro	5.9	17.5	11.6	22.5	1.9	Eluvial+Alluvial						
253	XXXV	3664	54	437.6	2.8	434.8	18.2	419.4	15.4	26.0	Gabbro	2.8	22.5	19.7	41.5	8.9	Eluvial+Alluvial	8.5	16.4	7.9	71.4	13.2	Alluvial
254	XXXV	2358	43	437.7	3.8	433.9	15.1	422.6	11.3	30.6	Gabbro	10.8	26.0	15.2	36.9	4.2	Eluvial+Alluvial	10.8	16.1	5.3	60.7	9.8	Alluvial
255	XXXV	3665	45	437.9	4.4	433.5	10.4	427.5	6.0	23.3	Gabbro	8.0	22.8	14.8	25.5	0.9	Eluvial+Alluvial						
256	XXXV	2071	50	438.2	3.0	435.2	16.4	421.8	13.4	28.3	Gabbro	6.0	28.0	22.0	32.0	4.0	Eluvial+Alluvial	21.8	23.9	2.1	66.3	16.6	Alluvial
257	XXXV	3666	55	438.2	5.7	432.5	5.7	432.5		32.5	Gabbro	3.0	32.0	29.0	24.5	0.1	Eluvial+Alluvial	7.8	9.9	2.1	54.6	0.8	Eluvial
258	XXXV	2359	44	438.7	4.0	434.7	4.0	434.7		25.2	Gabbro	10.0	25.0	15.0	34.7	0.9	Eluvial+Alluvial	11.9	13.9	2.0	51.8	2.9	Eluvial
259	XXXV	3667	50	440.0	4.0	436.0	11.7	428.3	7.7	29.1	Gabbro	19.0	27.0	8.0	18.7	0.8	Eluvial+Alluvial						
260	XXXV	2072	46	441.6	6.2	435.4	8.4	433.2	2.2	24.8	Syenite	7.0	18.0	11.0	20.4	1.1	Eluvial+Alluvial						
261	XXXV	3668	58	441.6	4.6	437.0	6.7	434.9	2.1	31.5	Syenite	4.6	9.0	4.4	15.9	4.0	Eluvial+Alluvial						
262	XXXV	2360	50	441.6	6.0	435.6	7.9	433.7	1.9	23.5	Syenite	6.0	7.9	1.9	52.9	13.4	Eluvial+Alluvial	7.0	7.9	0.9	70.0	18.0	Alluvial
263	XXXV	3669	42	441.2	4.0	437.2	9.5	431.7	5.5	19.5	Syenite	15.0	19.0	4.0	13.6	1.6	Eluvial+Alluvial						
264	XXXV	2073	48	440.7	3.9	436.8	3.9	436.8		20.5	Syenite	5.0	8.0	3.0	37.3	9.5	Eluvial+Alluvial						
265	XXXV	3670	60	440.6	4.4	436.2	4.4	436.2		26.5	Syenite	15.0	26.0	11.0	14.1	2.3	Eluvial+Alluvial						
266	XXXV	2361	54	440.6	3.9	436.7	15.6	425.0	11.7	19.7	Syenite	12.2	19.5	7.3	20.9	4.4	Eluvial+Alluvial						
267	XXXV	3671	34	440.3	3.3	437.0	21.0	419.3	17.7	23.5	Syenite	12.0	21.0	9.0	20.5	5.4	Eluvial+Alluvial						
268	XXXV	2074	50	440.2	2.0	438.2	17.4	422.8	15.4	22.0	Monzonite	12.0	15.6	3.6	23.5	3.7	Eluvial+Alluvial						
269	XXXV	3672	60	441.0	6.3	434.7	26.3	414.7	20.0	27.0	Monzonite	14.0	26.3	12.3	29.0	6.7	Eluvial+Alluvial						
270	XXXV	2362	50	441.8	3.5	438.3	22.0	419.8	18.5	22.3	Monzonite	12.2	22.0	9.8	25.8	5.9	Eluvial+Alluvial						
271	XXXV	3673	35	443.0	6.3	436.7	27.0	416.0	20.7	27.6	Monzonite	13.7	27.0	13.3	18.2	4.2	Eluvial+Alluvial						
272	XXXV	2075	54	443.6	6.9	436.7	26.0	417.6	19.1	26.5	Monzonite	14.3	26.0	11.7	18.2	3.7	Eluvial+Alluvial						
273	XXXV	3674	54	443.8	8.0	435.8	24.0	419.8	16.0	27.4	Monzonite	17.6	27.0	9.4	15.4	3.3	Eluvial+Alluvial	23.7	24.3	0.6	58.9	11.5	Alluvial
274	XXXV	2363	52	443.3	5.3	438.0	26.4	416.9	21.1	27.5	Monzonite	15.7	26.7	11.0	17.4	3.7	Eluvial+Alluvial						
275	XXXV	3675	36	443.6	7.0	436.6	25.5	418.1	18.5	26.2	Monzonite	17.0	25.6	8.6	16.6	3.6	Eluvial+Alluvial						
276	XXXV	2076	48	443.0	7.3	435.7	21.8	421.2	14.5	24.8	Syenite	16.0	24.5	8.5	21.5	4.3	Eluvial+Alluvial	21.6	22.2	0.6	55.7	10.5	Eluvial
277	XXXV	3676	64	442.2	6.1	436.1	22.0	420.2	15.9	24.6	Syenite	10.0	23.9	13.9	22.6	5.2	Eluvial+Alluvial						
278	XXXV	2364	46	441.5	5.7	435.8	22.8	418.7	17.1	26.0	Syenite	15.0	25.5	10.5	29.3	5.7	Eluvial+Alluvial						
279	XXXV	3677	42	440.7	3.4	437.3	18.2	422.5	14.8	19.7	Syenite	7.0	19.1	12.1	21.1	5.0	Eluvial+Alluvial						
280	XXXV	2077	43	439.0	5.1	433.9	19.7	419.3	14.6	20.0	Syenite	10.7	19.7	9.0	26.8	5.0	Eluvial+Alluvial						
281	XXXV	3678	65	437.9	1.5	436.4	14.3	423.6	12.8	15.5	Syenite	6.0	14.3	8.3	11.0	2.7	Eluvial+Alluvial						
282	XXXV	2365	50	436.7	3.0	433.7	15.0	421.7	12.0	19.4	Syenite	7.0	19.0	12.0	21.5	4.3	Eluvial+Alluvial						
283	XXXV	3679	35	435.7	2.7	433.0	12.5	423.2	9.8	16.6	Syenite	8.0	16.4	8.4	14.1	3.6	Eluvial+Alluvial						
284	XXXV	2078	50	435.1	3.0	432.1	11.0	424.1	8.0	15.0	Syenite	4.0	14.0	10.0	12.9	2.9	Eluvial+Alluvial						
285	XXXV	2366	65	434.8	3.0	431.8	6.0	428.8	3.0	12.0	Monzonite	3.0	11.2	8.2	24.1	4.7	Eluvial+Alluvial						
286	XXXV	2093	83	434.7	3.5	431.2	3.5	431.2		9.8	Monzonite	3.5	9.6	6.1	15.7	2.1	Eluvial+Alluvial						
287	XXXV	2367	112	434.7	5.0	429.7	5.0	429.7		7.4	Monzonite	5.0	7.0	2.0	17.5	2.6	Eluvial+Alluvial						
288	XXXIV	2039		435.4	3.5	431.9	16.7	418.7	13.2	21.0	Gabbro	7.0	20.4	13.4	39.4	8.0	Eluvial+Alluvial	11.8	16.6	4.8	59.8	8.4	Alluvial
289	XXXIV	3785	38	435.4	3.2	432.2	16.5	418.9	13.3	17.0	Gabbro	5.2	16.5	11.3	47.5	6.6	Eluvial+Alluvial	10.9	15.7	4.8	81.5	12.0	Alluvial
290	XXXIV	3993	52	435.8	3.8	432.0	16.7	419.1	12.9	22.8	Gabbro	7.0	22.3	15.3	47.2	4.9	Eluvial+Alluvial	7.0	16.1	9.1	57.6	6.0	Alluvial
291	XXXIV	3484	52	435.9	3.2	432.7	15.9	420.0	12.7	29.0	Gabbro	7.0	24.0	17.0	28.0	4.0	Eluvial+Alluvial	14.3	15.7	1.4	65.2	10.8	Alluvial
292	XXXIV	3485	48	435.4	2.0	433.4	15.7	419.7	13.7	17.6	Gabbro	9.0	17.6	8.6	44.4	6.8	Eluvial+Alluvial	11.3	15.5	4.2	74.7	12.3	Alluvial
293	XXXIV	3486	50	436.1	3.2	432.9	17.1	419.0	13.9	23.0	Gabbro	10.5	23.0	12.5	36.7	4.5	Eluvial+Alluvial	12.2	17.2	5.0	63.8	9.1	Alluvial
294	XXXIV	3681	36	437.0	3.8	433.2	19.0	418.0	15.2	21.0	Gabbro	10.0	21.3	11.3	36.3	5.4	Eluvial+Alluvial	15.5	18.8	3.3	69.1	10.8	Alluvial
295	XXXIV	3487	65	437.6	4.8	432.8	18.4	419.2	13.6	25.5	Gabbro	6.8	24.5	17.7	26.1	4.0	Eluvial+Alluvial						
296	XXXIV	3488	50	437.7	4.5	433.2	19.5	418.2	15.0	28.8	Gabbro	6.3	27.0	20.7	25.0	3.7	Eluvial+Alluvial	17.2	18.5	1.3	52.2	13.9	Alluvial
297	XXXIV	3680	42	438.1	4.8	433.3	15.6	422.5	10.8	31.3	Gabbro	10.0	31.0	21.0	18.5	1.5	Eluvial+Alluvial						
298	XXXIV	3489	52	438.5	6.0	432.5	14.0	424.5	8.0	31.0	Gabbro	8.0	30.0	22.0	21.4	0.8	Eluvial+Alluvial						
299	XXXIV	3490	40	439.8	7.3	432.5	9.3	430.5	2.0	29.0	Gabbro	9.3	26.5	17.2	24.2	0.4	Eluvial+Alluvial						
300	XXXIV	3491	50	441.2	7.0	434.2	9.0	432.2	2.0	30.0	Gabbro	8.0	24.0	16.0	27.8	0.8	Eluvial+Alluvial						
301	XXXIV	3492	46	441.3	6.7	434.6	7.0	434.3	0.3	22.7	Gabbro	6.7	22.0	15.3	24.1	0.5	Eluvial+Alluvial						
302	XXXIV	3493	48	440.8	6.0	434.8	8.0	432.8	2.0	17.0	Gabbro	6.0	16.0	10.0	26.2	0.9	Eluvial+Alluvial						
303	XXXIV	3494	48	439.9	5.0	434.9	8.4	431.5	3.4	25.0	Gabbro	7.0	24.5	17.5	26.2	1.3	Eluvial+Alluvial						
304	XXXIV	3495	52	439.7	4.5	435.2	8.0	431.7	3.5	26.0	Gabbro	5.9	25.0	19.1	22.6	0.5	Eluvial+Alluvial						
305	XXXIV	3496	50	439.5	4.0	435.5	8.0	431.5	4.0	16.5	Gabbro	13.0	14.7	1.7	10.1	1.4	Eluvial						
306	XXXIV	3497	50	439.3	3.5	435.8	13.0	426.3	9.5	18.0	Gabbro	13.0	16.3	3.3	13.1	1.0	Eluvial+Alluvial						
307	XXXIV	3498	42	439.2	2.5	436.7	17.0	422.2	14.5	20.2	Gabbro	8.1	19.1	11.0	12.1	3.0	Eluvial+Alluvial						
308	XXXIV	3499	46	438.9	1.8	437.1	17.1	421.8	15.3	22.0	Monzonite	13.0	17.1	4.1	21.0	4.8	Alluvial						
309	XXXIV	3500	45	438.6	0.5	438.1	19.0	419.6	18.5	23.6	Monzonite	11.0	23.0	12.0	13.2	3.1	Eluvial+Alluvial						
310	XXXIV	3501	48	438.5	4.0	434.5	22.0	416.5	18.0	26.5	Monzonite	10.7	26.0	15.3	23.3	5.7	Eluvial+Alluvial						
311	XXXIV	3502	46	438.9	3.5	435.4	24.0	414.9	20.5	25.5	Monzonite	12.0	31.7	19.7	16.7	4.7	Eluvial+Alluvial						
312	XXXIV	3503	52	439.9	5.0	434.9	26.0	413.9	21.0	26.6	Monzonite	12.0	26.0	14.0	21.9	5.8	Alluvial						
313	XXXIV	3504	50	441.0	7.8	433.2	27.0	414.0	19.2	28.0	Monzonite	15.8	27.0	11.2	28.3	6.6	Alluvial						
314	XXXIV	3505	50	442.4	8.0	434.4	27.0	415.4	19.0	35.0	Monzonite	16.5	26.6	10.1	23.4	5.2	Alluvial						
315	XXXIV	3508	50	443.4	8.2	435.2	24.9	418.5	16.7	32.3	Monzonite	16.0	32.0	16.0	19.1	4.3	Eluvial+Alluvial						
316	XXXIV	3509	50	440.0	7.8	432.2	29.4	410.6	21.6	29.7	Monzonite	16.0	29.4	13.4	23.7	5.0	Alluvial						
317	XXXIV	3506	50	443.6	8.8	434.8	25.0	418.6	16.2	25.3	Monzonite	15.0	25.0	10.0	26.6	6.3	Alluvial						
318	XXXIV	3507	54	443.0	8.0	435.0	22.2	420.8	14.2	25.6	Syenite	13.6	25.6	12.0	22.6	4.7	Eluvial+Alluvial						
319	XXXIV	3510	50	442.2	6.5	435.7	16.8	425.4	10.3	24.3	Syenite	12.2	24.0	11.8	16.8	3.5	Eluvial+Alluvial						
320	XXXIV	3511	48	441.0	6.1	434.9	18.5	422.5	12.4	23.1	Monzonite	11.0	20.0	9.0	14.4	2.8	Eluvial+Alluvial						
321	XXXIV	3512	50	440.1	4.5	435.6	12.8	427.3	8.3	20.3	Monzonite	9.8	19.6	9.8	16.9	2.1	Eluvial+Alluvial						
322	XXXIV	1224	100	438.2	5.5	432.7	7.6	430.6	2.1	16.0	Syenite	7.6	16.0	8.4	16.8	1.6	Eluvial						
323	XXXIV	1225	102	435.8	4.2	431.6	4.2	431.6		10.0	Syenite	4.2	10.0	5.8	16.5	1.7	Eluvial						
324	XXXIV	1226	90	434.4	3.0	431.4	5.0	429.4	2.0	13.0	Syenite	3.0	13.0	10.0	15.0	2.4	Eluvial+Alluvial						
325	XXXIV	1227	100	434.0	3.7	430.3	3.7	430.3		15.0	Syenite	3.7	15.0	11.3	16.2	2.8	Eluvial						
326	XXXIV	1228	98	434.1	5.0	429.1	5.0	429.1		9.0	Syenite	5.0	9.0	4.0	38.3	2.3	Eluvial						
327	XXXIV	1229	102	433.8	5.0	428.8	5.0	428.8		5.0	Syenite												
328	XXXIV	1230	98	433.8	3.6	430.2	3.6	430.2		3.8	Syenite												
329	XXXIV	1231	98	434.6	5.0	429.6	5.0	429.6		5.6	Syenite												
330	XXXIII	3992		433.0	1.3	431.7	9.8	423.2	8.5	12.0	Gabbro	1.3	11.6	10.3	40.9	5.9	Eluvial+Alluvial	2.7	9.7	7.0	51.7	8.1	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
331	XXXIII	2559	58	433.3	1.3	432.0	9.0	424.3	7.7	12.0	Gabbro	1.0	11.5	10.5	59.9	7.9	Eluvial+Alluvial	6.0	8.9	2.9	111.2	15.4	Alluvial
332	XXXIII	3469	42	434.0	4.0	430.0	13.2	420.8	9.2	18.5	Gabbro	5.0	18.5	13.5	34.1	3.8	Eluvial+Alluvial	9.0	13.1	4.1	68.3	9.1	Alluvial
333	XXXIII	2526	54	435.5	3.0	432.5	12.0	423.5	9.0	16.9	Gabbro	4.6	16.0	11.4	53.5	6.0	Eluvial+Alluvial	5.7	11.7	6.0	78.8	9.7	Alluvial
334	XXXIII	3470	52	436.8	4.0	432.8	12.3	424.5	8.3	23.0	Gabbro	9.0	22.5	13.5	47.7	6.9	Eluvial+Alluvial	11.3	19.2	7.9	56.2	9.0	Eluvial+Alluvial
335	XXXIII	2527	46	437.4	5.0	432.4	16.8	420.6	11.8	21.9	Gabbro	10.0	21.0	11.0	67.8	9.1	Eluvial+Alluvial	10.3	16.8	6.5	87.4	13.5	Alluvial
336	XXXIII	3772	50	437.7	5.8	431.9	19.7	418.0	13.9	19.9	Gabbro	8.0	19.7	11.7	60.0	9.4	Eluvial+Alluvial	12.1	18.3	6.2	87.9	14.0	Alluvial
337	XXXIII	2996	44	437.9	6.0	431.9	18.2	419.7	12.2	20.0	Gabbro	11.0	19.7	8.7	65.1	10.5	Eluvial+Alluvial	11.0	18.2	7.2	73.0	12.1	Alluvial
338	XXXIII	3471	44	438.2	6.1	432.1	20.0	418.2	13.9	23.0	Gabbro	11.8	21.5	9.7	37.7	5.9	Eluvial+Alluvial	15.5	19.9	4.4	58.0	9.2	Alluvial
339	XXXIII	3472	42	438.4	6.0	432.4	19.5	418.9	13.5	28.0	Gabbro	13.9	27.0	13.1	22.4	1.7	Eluvial+Alluvial	18.2	19.4	1.2	73.2	11.7	Alluvial
340	XXXIII	3473	44	438.5	6.0	432.5	18.6	419.9	12.6	33.0	Gabbro	11.8	32.0	20.2	18.0	2.4	Eluvial+Alluvial	17.6	18.4	0.8	61.4	7.9	Alluvial
341	XXXIII	2155	50	438.9	5.5	433.4	18.9	420.0	13.4	22.0	Gabbro	13.5	20.5	7.0	19.5	2.8	Eluvial+Alluvial						
342	XXXIII	2529	42	438.8	6.0	432.8	18.0	420.8	12.0	32.0	Gabbro	9.2	31.0	21.8	27.2	1.7	Eluvial+Alluvial						
343	XXXIII	3474	50	438.4	5.3	433.1	10.3	428.1	5.0	20.0	Gabbro	5.2	19.5	14.3	25.3	1.2	Eluvial+Alluvial						
344	XXXIII	3475	59	438.2	4.3	433.9	13.2	425.0	8.9	22.0	Gabbro	12.4	21.5	9.1	24.4	0.7	Eluvial+Alluvial						
345	XXXIII	2154	44	438.2	4.0	434.2	13.5	424.7	9.5	23.0	Gabbro	10.0	23.0	13.0	29.3	3.0	Eluvial+Alluvial						
346	XXXIII	3476	54	438.2	4.0	434.2	17.4	420.8	13.4	24.0	Gabbro	10.0	17.4	7.4	18.4	3.3	Eluvial+Alluvial						
347	XXXIII	3997	46	438.2	4.0	434.2	15.8	422.4	11.8	18.5	Gabbro	10.5	18.0	7.5	21.7	0.3	Eluvial+Alluvial						
348	XXXIII	3477	49	437.9	2.8	435.1	17.5	420.4	14.7	19.5	Gabbro	12.8	19.0	6.2	22.3	5.3	Eluvial+Alluvial						
349	XXXIII	2153	46	437.6	1.5	436.1	16.8	420.8	15.3	22.5	Gabbro	13.8	18.2	4.4	23.9	4.3	Eluvial+Alluvial						
350	XXXIII	3478	56	437.3	2.0	435.3	22.3	415.0	20.3	25.0	Gabbro	10.0	22.3	12.3	22.2	4.3	Eluvial+Alluvial						
351	XXXIII	3479	37	437.3	2.0	435.3	21.5	415.8	19.5	24.0	Gabbro	11.0	23.5	12.5	20.5	3.8	Eluvial+Alluvial						
352	XXXIII	3480	44	437.3	2.3	435.0	21.3	416.0	19.0	24.5	Gabbro	11.0	24.5	13.5	25.0	5.3	Eluvial+Alluvial						
353	XXXIII	2152	64	437.4	4.3	433.1	20.8	416.6	16.5	32.6	Gabbro	11.2	32.5	21.3	29.7	2.2	Eluvial+Alluvial						
354	XXXIII	3481	42	437.6	6.0	431.6	20.3	417.3	14.3	27.0	Gabbro	14.0	26.5	12.5	30.1	3.0	Eluvial+Alluvial						
355	XXXIII	2151A	60	439.0	9.0	430.0	17.8	421.2	8.8	21.1	Gabbro	10.1	21.0	11.0	59.0	0.2	Eluvial+Alluvial	13.9	19.8	5.9	72.5	0.2	Eluvial+Alluvial
356	XXXIII	3482	50	440.2	10.0	430.2	18.2	422.0	8.2	33.0	Gabbro	16.4	32.5	16.1	30.0	0.6	Eluvial+Alluvial						
357	XXXIII	2151	50	441.5	6.2	435.3	19.5	422.0	13.3	28.0	Syenite	14.0	28.0	14.0	43.6	1.8	Eluvial+Alluvial	21.2	25.2	4.0	62.9	0.3	Eluvial
358	XXXIII	3483	50	442.2	7.0	435.2	14.0	428.2	7.0	28.0	Gabbro	11.0	16.0	5.0	22.7	0.1	Eluvial+Alluvial						
359	XXXIII	2150A	50	442.6	8.0	434.6	12.0	430.6	4.0	29.0	Syenite	10.0	29.0	19.0	38.9	0.4	Eluvial+Alluvial	13.9	15.8	1.9	50.0	0.6	Eluvial
360	XXXIII	2150	96	441.8	7.0	434.8	10.2	431.6	3.2	29.0	Gabbro	7.0	16.0	9.0	22.7	1.4	Eluvial+Alluvial						
361	XXXIII	2149	200	438.9	4.9	434.0	4.9	434.0		23.1	Syenite	4.9	8.7	3.8	19.3	0.2	Eluvial+Alluvial						
362	XXXIII	2148	194	433.9	4.6	429.3	4.6	429.3		10.8	Syenite	4.6	10.8	6.2	14.0	1.8	Eluvial+Alluvial						
363	XXXIII	2147	396	433.5	6.8	426.7	6.8	426.7		7.5	Syenite						Eluvial+Alluvial						
364	XXXII	3658		435.0	6.2	428.8	6.2	428.8		15.0	Gabbro	12.0	14.5	2.5	22.3	0.2	Eluvial+Alluvial						
365	XXXII	2037	114	432.9	2.2	430.7	2.2	430.7		16.7	Gabbro	2.2	16.5	14.3	18.8	0.6	Eluvial+Alluvial						
366	XXXII	1236	214	433.4	3.0	430.4	3.6	429.8	0.6	8.0	Gabbro	3.0	8.0	5.0	25.4	2.3	Eluvial+Alluvial						
367	XXXII	3434	60	435.0	2.0	433.0	3.1	431.9	1.1	7.0	Gabbro	2.0	3.1	1.1	24.3	5.0	Eluvial+Alluvial						
368	XXXII	3435	48	436.0	2.0	434.0	5.3	430.7	3.3	7.5	Gabbro	2.0	5.3	3.3	38.2	6.2	Eluvial+Alluvial						
369	XXXII	3436	48	436.5	2.8	433.7	7.5	429.0	4.7	13.0	Gabbro	3.0	9.4	6.4	23.2	2.6	Eluvial+Alluvial						
370	XXXII	3437	52	436.7	4.0	432.7	9.2	427.5	5.2	14.5	Gabbro	9.5	11.0	1.5	26.1	2.1	Eluvial+Alluvial						
371	XXXII	2995	52	436.7	4.0	432.7	15.0	421.7	11.0	18.0	Gabbro	9.0	17.8	8.8	35.7	4.8	Eluvial+Alluvial	10.1	13.1	3.0	57.8	8.8	Alluvial
372	XXXII	3438	44	436.8	5.7	431.1	18.2	418.6	12.5	20.5	Gabbro	7.7	20.0	12.3	17.2	7.1	Eluvial+Alluvial	9.7	16.2	6.5	71.5	11.4	Alluvial
373	XXXII	3439	52	437.1	4.6	432.5	20.0	417.1	15.4	24.5	Gabbro	10.7	21.8	11.1	50.5	7.0	Eluvial+Alluvial	12.6	19.9	7.3	56.7	8.5	Alluvial
374	XXXII	3440	50	437.0	5.0	432.0	19.0	418.0	14.0	20.5	Gabbro	8.7	19.8	11.1	48.8	8.2	Eluvial+Alluvial	16.6	19.7	3.1	76.8	11.3	Eluvial+Alluvial
375	XXXII	3441	44	436.7	5.0	431.7	21.9	414.8	16.9	23.0	Gabbro	7.0	22.0	15.0	48.9	7.1	Eluvial+Alluvial	11.0	20.8	9.8	62.1	9.3	Alluvial
376	XXXII	3442	52	436.7	4.0	432.7	16.7	420.0	12.7	18.0	Gabbro	9.0	16.7	7.7	61.5	9.3	Eluvial+Alluvial	9.0	15.0	6.0	70.9	10.4	Alluvial
377	XXXII	3443	50	436.8	5.0	431.8	16.5	420.3	11.5	21.8	Gabbro	10.4	21.8	11.4	26.0	3.0	Eluvial+Alluvial	11.9	12.6	0.7	66.7	10.9	Alluvial
378	XXXII	3444	52	436.4	4.0	432.4	17.8	418.6	13.8	23.0	Gabbro	8.8	16.0	7.2	20.7	3.4	Eluvial+Alluvial	11.6	13.3	1.7	74.3	10.6	Alluvial
379	XXXII	3445	50	436.2	4.0	432.2	21.0	415.2	17.0	25.0	Gabbro	9.0	18.8	9.8	30.8	5.4	Eluvial+Alluvial						
380	XXXII	3446	50	436.5	3.5	433.0	18.0	418.5	14.5	24.0	Gabbro	9.0	20.0	11.0	22.2	4.1	Eluvial+Alluvial						
381	XXXII	3447	48	436.5	3.8	432.7	18.5	418.0	14.7	28.3	Gabbro	10.0	18.5	8.5	30.7	5.6	Eluvial+Alluvial						
382	XXXII	3448	48	436.7	3.9	432.8	21.0	415.7	17.1	26.0	Gabbro	10.2	25.4	15.2	19.8	4.1	Eluvial+Alluvial						
383	XXXII	3449	52	436.9	2.5	434.4	19.6	417.3	17.1	24.5	Gabbro	9.0	23.8	14.8	23.8	4.2	Eluvial+Alluvial						
384	XXXII	3450	50	436.9	1.0	435.9	20.0	416.9	19.0	27.7	Gabbro	9.1	27.0	17.9	20.7	3.6	Eluvial+Alluvial						
385	XXXII	3451	50	436.9	2.0	434.9	21.0	415.9	19.0	25.3	Gabbro	10.1	25.3	15.2	19.7	4.4	Eluvial+Alluvial						
386	XXXII	3452	50	436.9	2.0	434.9	19.9	417.0	17.9	24.0	Gabbro	9.8	22.0	12.2	20.8	4.3	Eluvial+Alluvial						
387	XXXII	3453	40	437.3	2.2	435.1	17.8	419.5	15.6	25.5	Gabbro	9.8	17.8	8.0	18.7	3.8	Eluvial+Alluvial						
388	XXXII	3454	52	437.4	2.3	435.1	15.0	422.4	12.7	25.3	Gabbro	9.0	25.0	16.0	29.6	1.3	Eluvial+Alluvial						
389	XXXII	3985	50	437.9	2.8	435.1	12.8	425.1	10.0	19.0	Gabbro	5.0	18.8	13.8	33.2	0.7	Eluvial+Alluvial	12.9	18.6	5.7	51.5	0.2	Eluvial
390	XXXII	3455	42	439.0	4.0	435.0	11.4	427.6	7.4	26.4	Gabbro	10.0	26.0	16.0	28.1	1.3	Eluvial+Alluvial	9.8	11.3	1.5	82.6	9.8	Alluvial
391	XXXII	4017	58	440.3	4.0	436.3	10.0	430.3	6.0	22.0	Gabbro	8.2	21.8	13.6	30.0	0.4	Eluvial+Alluvial						
392	XXXII	3456	42	440.8	5.5	435.3	9.0	431.8	3.5	22.5	Gabbro	7.0	22.0	15.0	30.4	0.7	Eluvial+Alluvial						
393	XXXII	4016	58	441.1	7.5	433.6	7.5	433.6		22.0	Gabbro	7.5	22.0	14.5	25.8	0.5	Eluvial+Alluvial						
394	XXXII	1208	64	440.6	7.8	432.8	7.8	432.8		21.7	Gabbro	7.8	21.7	13.9	31.2	0.6	Eluvial+Alluvial						
395	XXXII	1209	102	439.0	6.9	432.1	6.9	432.1		21.0	Gabbro	6.9	21.0	14.1	31.4	0.4	Eluvial+Alluvial						
396	XXXII	1210	98	437.2	4.5	432.7	4.5	432.7		14.0	Gabbro	6.0	14.0	8.0	36.5	0.6	Eluvial+Alluvial						
397	XXXII	1211	96	434.6	4.0	430.6	4.0	430.6		15.0	Gabbro	4.0	15.0	11.0	21.7	0.4	Eluvial+Alluvial						
398	XXXII	1212	105	432.8	4.0	428.8	4.0	428.8		15.0	Syenite	3.5	15.0	11.5	15.6	2.4	Eluvial+Alluvial						
399	XXXII	1213	98	432.3	4.4	427.9	4.4	427.9		12.5	Syenite	4.4	12.5	8.1	15.2	2.9	Eluvial+Alluvial						
400	XXXII	1214	102	431.9	5.0	426.9	5.0	426.9		5.5	Syenite	5.0	5.5	0.5	9.2	1.4	Eluvial+Alluvial						
401	XXXII	1215	114	431.6	5.0	426.6	5.0	426.6		9.5	Syenite	5.0	9.5	4.5	39.6	2.0	Eluvial+Alluvial						
402	XXXI	3656		438.3	6.7	431.6	6.7	431.6		14.1	Gabbro	6.7	13.5	6.8	20.4	0.4	Eluvial+Alluvial						
403	XXXI	1907	80	437.2	5.0	432.2	7.0	430.2	2.0	14.5	Gabbro	7.0	14.4	7.4	17.5	0.6	Eluvial+Alluvial						
404	XXXI	3421	190	432.8	5.0	427.8	7.9	424.9	2.9	18.2	Gabbro	6.4	16.0	9.6	24.1	1.5	Eluvial+Alluvial	6.3	7.8	1.5	52.8	6.3	Alluvial
405	XXXI	3422	50	432.4	2.5	429.9	6.8	425.6	4.3	16.0	Gabbro	4.2	6.8	2.6	69.3	9.0	Eluvial+Alluvial	4.1	6.8	2.7	61.7	8.9	Alluvial
406	XXXI	3423	50	432.4	2.0	430.4	5.5	426.9	3.5	16.0	Gabbro	3.8	15.1	11.3	18.2	1.2	Eluvial+Alluvial						
407	XXXI	3457	50	432.4	1.5	430.9	6.0	426.4	4.5	16.0	Gabbro	4.0	15.5	11.5	17.7	0.9	Eluvial+Alluvial						
408	XXXI	3424	50	432.4	2.0	430.4	7.0	425.4	5.0	16.0	Gabbro	3.0	15.2	12.2	23.1	1.8	Eluvial+Alluvial						
409	XXXI	3458	47	432.5	2.0	430.5	5.6	426.9	3.6	15.0	Gabbro	2.0	14.5	12.5	27.9	2.3	Eluvial+Alluvial	3.6	5.7	2.2	65.8	9.2	Alluvial
410	XXXI	3425	48	434.7	3.1	431.6	7.9	426.8	4.8	14.0	Gabbro	2.2	13.0	10.8	24.2	2.0	Eluvial+Alluvial						
411	XXXI	3426	50	435.1	3.2	431.9	11.8	423.3	8.6	13.5	Gabbro	3.4	12.8	9.4	42.2	6.0	Eluvial+Alluvial	9.1	12.0	2.9	75.8	10.0	Alluvial
412	XXXI	3459	52	435.4	4.0	431.4	13.9	421.5	9.9	16.8	Gabbro	4.2	16.0	11.8	30.3	4.6	Eluvial+Alluvial						
413	XXXI	3427	48	435.5	4.2	431.3	16.5	419.0	12.3	17.0	Gabbro	4.2	16.5	12.3	39.2	6.3	Eluvial+Alluvial	7.7	9.4	1.7	56.5	7.8	Alluvial
414	XXXI	3460	50	435.4	4.9	430.5	15.5	419.9	10.6	16.0	Gabbro	4.9	15.5	10.6	49.6	8.0	Eluvial+Alluvial	9.4	15.2	5.8	66.6	10.2	Alluvial
415	XXXI	3428	50	435.3	4.6	430.7	15.0	420.3	10.4	16.7	Gabbro	7.0	15.7	8.7	52.5	8.4	Eluvial+Alluvial	13.1	15.9	2.8	80.2	12.5	Eluvial+Alluvial
416	XXXI	3461	50	435.2	5.0	430.2	16.9	418.3	11.9	19.0	Gabbro	8.0	19.0	11.0	38.9	8.2	Eluvial+Alluvial	14.9	16.9	2.0	92.8	15.8	Alluvial
417	XXXI	3429	48	435.1	5.0	430.1	17.5	417.6	12.5	18.0	Granite	7.9	17.5	9.6	31.0	6.9	Eluvial+Alluvial	10.6	12.0	1.4	55.6	9.0	Alluvial
418	XXXI	3462	50	435.1	5.0	430.1	17.2	417.9	12.2	21.0	Granite	7.0	20.2	13.2	16.0	3.9	Eluvial+Alluvial						
419	XXXI	3430	48	435.2	5.0	430.2	19.0	416.2	14.0	23.0	Granite	5.0	21.0	16.0	24.0	5.0	Eluvial+Alluvial						
420	XXXI	3463	48	435.2	5.0	430.2	17.5	417.7	12.5	20.0	Granite	11.8	19.5	7.7	36.8	6.7	Eluvial+Alluvial						
421	XXXI	3431	50	435.3	5.0	430.3	20.0	415.3	15.0	21.0	Monzonite	5.0	20.0	15.0	24.8	5.1	Eluvial+Alluvial						
422	XXXI	3464	53	435.4	5.5	429.9	17.0	418.4	11.5	19.5	Monzonite	7.5	19.0	11.5	34.7	6.7	Eluvial+Alluvial						
423	XXXI	3432	46	435.7	5.0	430.7	19.0	416.7	14.0	21.5	Monzonite	8.0	19.0	11.0	20.5	4.2	Eluvial+Alluvial						
424	XXXI	3465	50	436.0	6.4	429.6	15.4	420.6	9.0	18.0	Monzonite	8.0	15.4	7.4	17.0	4.1	Eluvial+Alluvial						
425	XXXI	3466	52	436.7	6.3	430.4	12.0	424.7	5.7	23.0	Monzonite	10.0	18.5	8.5	22.2	1.3	Eluvial+Alluvial						
426	XXXI	3467	55	436.6	3.0	433.6	10.0	426.6	7.0	21.0	Monzonite	12.5	20.5	8.0	33.3	3.0	Eluvial+Alluvial						
427	XXXI	3433	48	436.9	3.0	433.9	6.0	430.9	3.0	21.5	Monzonite	10.0	21.0	11.0	17.9	0.3	Eluvial+Alluvial						
428	XXXI	3468	48	437.3	3.1	434.2	8.0	429.3	4.9	26.0	Monzonite	11.5	25.5	14.0	24.1	0.3	Eluvial+Alluvial						
429	XXXI	3984	100	437.7	5.9	431.8	5.9	431.8		22.0	Monzonite	8.0	21.8	13.8	26.5	0.4	Eluvial+Alluvial						
430	XXXI	1900	110	438.3	8.0	430.3	8.0	430.3		17.8	Monzonite	8.0	17.8	9.8	27.9	0.2	Eluvial+Alluvial						
431	XXXI	1899	396	434.5	4.5	430.0	4.5	430.0		10.8	Monzonite	4.5	10.8	6.3	22.9	0.8	Eluvial+Alluvial						
432	XXXI	1898	398	431.2	5.1	426.1	5.1	426.1		7.2	Syenite	5.1	7.2	2.1	9.4	1.3	Eluvial+Alluvial						
433	XXXI	1897	320	431.7	9.5	422.2	9.5	422.2		11.5	Syenite	7.0	11.4	4.4	22.8	1.4	Eluvial+Alluvial						
434	XXX	3654		439.7	5.8	433.9	5.8	433.9		18.3	Syenite	5.8	13.0	7.2	26.8	0.4	Eluvial						
435	XXX	1181	140	437.9	4.8	433.1	4.8	433.1		7.0	Gabbro	5.7	7.0	1.3	23.5	6.6	Eluvial						
436	XXX	1182	102	436.3	4.9	431.4	4.9	431.4		11.3	Syenite	4.9	10.3	5.4	23.4	0.5	Eluvial						
437	XXX	1183	102	434.3	2.9	431.4	2.9	431.4		9.0	Syenite	2.9	9.0	6.1	22.6	1.0	Eluvial						
438	XXX	3387	60	432.6	2.6	430.0	2.6	430.0		17.0	Syenite	2.6	11.0	8.4	14.7	2.6	Eluvial						
439	XXX	1184	42	432.5	1.2	431.3	1.2	431.3		8.0	Syenite	1.2	8.0	6.8	19.1	2.3	Eluvial						
440	XXX	3388	44	432.7	2.5	430.2	2.5	430.2		12.5	Syenite	2.5	12.0	9.5	16.7	2.7	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
441	XXX	3389	48	433.4	3.4	430.0	6.4	427.0	3.0	13.0	Syenite	3.4	12.6	9.2	15.5	3.1	Eluvial+Alluvial						
442	XXX	3390	46	434.1	4.0	430.1	7.9	426.2	3.9	14.0	Syenite	4.0	12.0	8.0	23.4	3.9	Eluvial+Alluvial	7.3	7.8	0.5	61.1	11.7	Alluvial
443	XXX	3391	56	434.4	3.5	430.9	12.4	422.0	8.9	16.0	Syenite	3.5	15.0	11.5	18.6	2.9	Eluvial+Alluvial						
444	XXX	3392	44	434.6	3.0	431.6	14.9	419.7	11.9	17.0	Granite	3.0	17.0	14.0	18.0	2.8	Eluvial+Alluvial						
445	XXX	3393	58	434.6	3.0	431.6	19.0	415.6	16.0	20.0	Granite	3.0	19.0	16.0	31.3	4.9	Alluvial	13.3	15.3	2.0	53.0	9.1	Alluvial
446	XXX	3394	42	434.6	5.5	429.1	18.0	416.6	12.5	18.5	Granite	4.0	18.0	14.0	36.1	6.2	Alluvial	8.6	12.3	3.7	62.7	10.3	Alluvial
447	XXX	3395	56	434.7	3.0	431.7	15.0	419.7	12.0	17.0	Granite	3.0	13.7	10.7	18.5	4.0	Alluvial						
448	XXX	3396	49	434.6	5.3	429.3	16.2	418.4	10.9	16.5	Granite	9.0	16.2	7.2	24.1	5.2	Alluvial						
449	XXX	3397	50	434.4	5.0	429.4	13.2	421.2	8.2	14.0	Granite	4.0	13.2	9.2	27.3	5.0	Alluvial	7.0	7.7	0.7	50.6	12.0	Alluvial
450	XXX	3398	50	434.1	5.0	429.1	12.0	422.1	7.0	14.0	Granite	6.8	12.0	5.2	22.2	4.2	Alluvial						
451	XXX	3399	50	433.8	4.5	429.3	11.3	422.5	6.8	14.0	Granite	6.4	11.3	4.9	29.3	5.7	Alluvial	10.2	11.2	1.0	55.7	9.0	Alluvial
452	XXX	3400	52	433.6	4.3	429.3	9.7	423.9	5.4	11.7	Granite		9.7	9.7	19.0	4.1	Alluvial						
453	XXX	3401	46	433.3	4.0	429.3	8.0	425.3	4.0	12.5	Granite	4.0	8.0	4.0	16.3	3.9	Alluvial						
454	XXX	3402	48	433.2	4.0	429.2	9.5	423.7	5.5	12.0	Granite	4.0	12.0	8.0	17.6	5.1	Eluvial+Alluvial						
455	XXX	3403	48	433.3	4.0	429.3	6.8	426.5	2.8	9.6	Granite	4.0	6.8	2.8	25.7	6.6	Eluvial+Alluvial						
456	XXX	3404	54	433.3	5.0	428.3	5.0	428.3		10.0	Granite												
457	XXX	3405	46	433.7	4.8	428.9	4.8	428.9		13.0	Granite												
458	XXX	3406	48	434.2	4.4	429.8	4.4	429.8		8.0	Granite												
459	XXX	4018	62	434.3	3.0	431.3	3.0	431.3		23.0	Granite												
460	XXX	1194	50	435.2	3.0	432.2	3.0	432.2		18.0	Granite												
461	XXX	1195	48	435.4	3.7	431.7	3.7	431.7		14.0	Granite												
462	XXX	1196	100	436.0	5.0	431.0	5.0	431.0		8.0	Granite												
463	XXX	1197	95	436.4	5.3	431.1	5.3	431.1		7.0	Granite												
464	XXX	1198	98	436.8	6.0	430.8	6.0	430.8		11.0	Granite												
465	XXIX	1547		437.5	3.5	434.0	3.5	434.0		8.0	Syenite	3.5	8.0	4.5	13.6	3.1	Eluvial+Alluvial						
466	XXIX	1546	50	437.3	2.9	434.4	4.5	432.8	1.6	5.8	Syenite	2.9	5.3	2.4	6.4	1.5	Eluvial+Alluvial						
467	XXIX	1545	50	436.9	3.6	433.3	4.5	432.4	0.9	6.0	Syenite	3.6	6.0	2.4	13.8	3.9	Eluvial+Alluvial						
468	XXIX	1401	47	436.6	3.8	432.8	6.0	430.6	2.2	8.0	Syenite	3.8	8.0	4.2	17.3	3.8	Eluvial+Alluvial						
469	XXIX	1402	52	436.4	5.5	430.9	12.0	424.4	6.5	13.5	Syenite	6.0	13.0	7.0	14.3	2.5	Eluvial+Alluvial						
470	XXIX	1403	45	436.2	5.0	431.2	15.0	421.2	10.0	15.6	Syenite	6.0	15.6	9.6	37.2	6.0	Eluvial+Alluvial	11.1	13.3	2.2	55.7	9.9	Alluvial
471	XXIX	1404	52	435.7	4.0	431.7	18.0	417.7	14.0	18.0	Syenite	7.0	18.0	11.0	47.9	7.9	Eluvial+Alluvial	10.8	14.8	4.0	74.8	12.2	Alluvial
472	XXIX	1405	52	435.4	4.0	431.4	17.2	418.2	13.2	17.2	Granite	4.0	17.1	13.1	43.3	7.2	Eluvial+Alluvial	9.8	15.9	6.2	61.7	10.9	Alluvial
473	XXIX	1406	53	434.8	5.0	429.8	17.5	417.3	12.5	17.5	Granite	7.0	17.5	10.5	49.5	10.2	Eluvial+Alluvial	8.8	15.7	6.9	50.5	10.0	Alluvial
474	XXIX	1407	44	434.5	4.8	429.7	16.0	418.5	11.2	16.0	Granite	7.0	16.0	9.0	31.9	5.9	Eluvial+Alluvial						
475	XXIX	1408	49	434.0	5.9	428.1	12.7	421.3	6.8	12.7	Granite	7.0	12.7	5.7	41.8	8.4	Eluvial+Alluvial	11.9	12.7	0.8	59.6	12.2	Alluvial
476	XXIX	1409	50	433.5	4.7	428.8	9.6	423.9	4.9	10.2	Granite	4.7	9.6	4.9	31.8	6.6	Eluvial+Alluvial						
477	XXIX	1410	47	433.3	4.8	428.5	8.5	424.8	3.7	9.2	Granite	4.8	8.4	3.6	18.8	4.0	Eluvial+Alluvial						
478	XXIX	1411	50	433.2	4.5	428.7	8.5	424.7	4.0	9.5	Granite	4.5	8.5	4.0	23.8	5.6	Eluvial+Alluvial						
479	XXIX	1412	48	433.2	6.0	427.2	9.0	424.2	3.0	14.0	Granite	6.0	9.0	3.0	31.5	8.4	Eluvial+Alluvial						
480	XXIX	1413	54	432.7	5.3	427.4	7.7	425.0	2.4	9.0	Granite	5.3	7.7	2.4	19.5	5.3	Eluvial+Alluvial						
481	XXIX	1414	45	432.3	2.9	429.4	5.0	427.3	2.1	7.0	Granite	2.9	6.0	3.1	22.9	5.8	Eluvial+Alluvial						
482	XXIX	1415	48	431.9	3.4	428.5	3.4	428.5		6.0	Granite						Eluvial+Alluvial						
483	XXIX	1416	47	431.8	4.5	427.3	4.5	427.3		5.0	Granite						Eluvial+Alluvial						
484	XXIX	1417	48	431.8	5.3	426.5	5.3	426.5		6.0	Granite	3.0	5.0	2.0	9.5	2.2	Eluvial+Alluvial						
485	XXIX	1418	50	431.9	4.5	427.4	4.5	427.4		6.5	Granite						Eluvial+Alluvial						
486	XXIX	1896	148	433.9	2.5	431.4	2.5	431.4		19.0	Granite						Eluvial+Alluvial						
487	XXIX	1895	186	436.3	5.0	431.3	5.0	431.3		8.5	Granite						Eluvial+Alluvial						
488	XXIX	1894	406	431.4	0.7	430.7	0.7	430.7		14.8	Syenite	0.7	14.8	14.1	20.4	0.7	Eluvial+Alluvial						
489	XXIX	1893	188	429.2	3.2	426.0	3.2	426.0		8.0	Syenite	3.0	5.0	2.0	14.3	1.5	Eluvial+Alluvial						
490	XXIX	1892	194	429.6	3.5	426.1	3.5	426.1		5.3	Syenite						Eluvial+Alluvial						
491	XXIX-A	3780		438.8		438.8		438.8		7.0	Syenite	2.0	7.0	5.0	11.1	2.9	Eluvial						
492	XXIX-A	3781	50	438.3	3.0	435.3	3.0	435.3		7.0	Syenite	3.0	7.0	4.0	12.0	2.8	Eluvial						
493	XXIX-A	3782	50	438.2	3.8	434.4	3.8	434.4		9.2	Syenite	6.0	8.8	2.8	10.3	2.4	Eluvial						
494	XXIX-A	3783	50	437.8	5.0	432.8	7.0	430.8	2.0	11.5	Syenite	5.1	9.5	4.4	58.0	8.3	Eluvial+Alluvial	5.1	7.1	2.0	98.4	13.1	Alluvial
495	XXIX-A	2063	49	437.7	8.0	429.7	9.5	428.2	1.5	14.7	Granite	8.0	14.5	6.5	14.2	2.1	Eluvial+Alluvial						
496	XXIX-A	3379	50	437.6	7.0	430.6	7.0	430.6		13.0	Granite												
497	XXIX-A	2383	49	437.4	7.5	429.9	7.5	429.9		12.5	Granite												
498	XXIX-A	3380	48	437.0	6.0	431.0	7.0	430.0	1.0	12.5	Granite												
499	XXIX-A	2064	50	436.1	5.0	431.1	13.5	422.6	8.5	14.0	Granite	5.0	13.5	8.5	18.7	2.5	Alluvial						
500	XXIX-A	3381	49	435.2	5.0	430.2	17.5	417.7	12.5	18.0	Granite	6.0	17.5	11.5	32.5	5.7	Alluvial	14.0	16.0	2.0	53.6	8.6	Alluvial
501	XXIX-A	2384	49	434.5	5.0	429.5	14.9	419.6	9.9	16.0	Granite	5.0	14.9	9.9	39.9	7.4	Alluvial	11.0	12.8	1.8	68.1	11.6	Alluvial
502	XXIX-A	3382	50	433.6	4.2	429.4	16.0	417.6	11.8	17.0	Granite	5.6	16.0	10.4	35.1	6.7	Alluvial	11.1	13.1	2.0	58.4	10.2	Alluvial
503	XXIX-A	2065	52	432.8	3.6	429.2	12.8	420.0	9.2	13.8	Granite	4.0	12.8	8.8	27.7	4.7	Alluvial						
504	XXIX-A	3383	51	432.2	4.2	428.0	17.0	415.2	12.8	18.0	Granite	4.2	17.0	12.8	20.2	3.5	Alluvial						
505	XXIX-A	3384	102	431.7	3.8	427.9	9.3	422.4	5.5	18.0	Granite	3.8	7.2	3.4	26.2	6.1	Alluvial						
506	XXIX-A	2066	51	431.8	4.0	427.8	16.8	415.0	12.8	20.5	Granite	4.0	7.1	3.1	28.1	6.8	Alluvial						
507	XXIX-A	3385	50	431.6	3.2	428.4	12.1	419.5	8.9	21.0	Granite	3.2	5.0	1.8	39.1	8.3	Alluvial	3.1	4.1	1.0	55.1	10.6	Alluvial
508	XXIX-A	2426	48	431.9	5.0	426.9	5.9	426.0	0.9	11.5	Granite	2.0	5.0	3.0	19.2	2.1	Alluvial						
509	XXIX-A	3386	48	432.0	5.4	426.6	5.4	426.6		15.0	Granite												
510	XXIX-A	2067	52	431.5	4.9	426.6	4.9	426.6		14.9	Granite												
511	XXVIII	1174		438.5	1.0	437.5	1.0	437.5		2.6	Syenite	1.0	2.0	1.0	16.4	2.9	Eluvial+Alluvial						
512	XXVIII	1175	101	437.9	3.5	434.4	3.5	434.4		9.0	Syenite	3.5	8.0	4.5	14.0	3.0	Eluvial+Alluvial						
513	XXVIII	1176	94	437.5	3.0	434.5	3.0	434.5		21.3	Syenite	5.0	8.0	3.0	13.8	2.3	Eluvial+Alluvial						
514	XXVIII	231	103	437.3	5.4	431.9	5.4	431.9		11.5	Syenite												
515	XXVIII	1446	60	437.1	7.0	430.1	11.3	425.8	4.3	12.0	Granite												
516	XXVIII	1177	45	436.4	6.0	430.4	9.0	427.4	3.0	11.5	Granite	9.0	11.5	2.5	52.1	10.6	Alluvial	10.0	11.7	1.7	53.9	11.0	Alluvial
517	XXVIII	1447	56	436.5	5.0	431.5	12.5	424.0	7.5	12.5	Granite	4.7	12.5	7.8	22.7	6.2	Alluvial						
518	XXVIII	369	52	435.1	6.0	429.1	10.6	424.5	4.6	10.6	Granite	7.2	10.6	3.4	17.4	3.5	Alluvial						
519	XXVIII	1448	46	434.5	5.4	429.1	9.9	424.6	4.5	14.3	Granite	5.4	14.0	8.6	39.3	7.1	Alluvial	9.9	10.8	0.9	56.6	12.4	Alluvial
520	XXVIII	1178	52	433.8	5.0	428.8	14.8	419.0	9.8	15.0	Granite	5.0	14.8	9.8	39.2	7.2	Alluvial	11.9	13.9	2.0	60.5	12.0	Alluvial
521	XXVIII	1449	54	433.0	5.0	428.0	16.0	417.0	11.0	16.0	Granite	5.0	16.0	11.0	34.6	6.5	Alluvial						
522	XXVIII	232	48	432.3	2.7	429.6	15.0	417.3	12.3	16.0	Granite	4.0	15.0	11.0	28.5	4.7	Alluvial	9.3	10.3	1.0	55.7	9.4	Alluvial
523	XXVIII	1450	48	431.8	3.0	428.8	12.8	419.0	9.8	12.9	Granite	3.0	12.9	9.9	25.9	6.0	Eluvial+Alluvial						
524	XXVIII	1179	53	431.2	2.5	428.7	6.9	424.3	4.4	13.0	Granite	2.5	6.9	4.4	27.3	5.7	Alluvial						
525	XXVIII	1451	51	430.5	3.0	427.5	7.0	423.5	4.0	8.0	Granite	6.0	7.0	1.0	36.5	6.1	Alluvial						
526	XXVIII	370	46	430.4	2.2	428.2	5.4	425.0	3.2	17.0	Granite	2.2	5.4	3.2	22.3	4.0	Alluvial						
527	XXVIII	1452	52	430.3	3.0	427.3	5.4	424.9	2.4	15.0	Granite	4.0	5.4	1.4	36.9	6.7	Alluvial						
528	XXVIII	1180	51	430.3	2.0	428.3	4.2	426.1	2.2	22.0	Granite	2.0	4.2	2.2	22.2	4.5	Alluvial						
529	XXVIII	410	351	432.1	3.0	429.1	3.0	429.1		10.0	Granite												
530	XXVIII	411	462	432.2	4.0	428.2	4.0	428.2		8.0	Granite												
531	XXVIII	412	396	430.4	6.5	423.9	6.5	423.9		13.0	Syenite	0.5	2.8	2.3	46.8	12.2	Alluvial						
532	XXVIII	163	345	427.9	3.5	424.4	3.5	424.4		13.0	Syenite	5.0	13.0	8.0	14.9	2.1	Eluvial						
533	XXVII	3778		440.0	8.7	431.3	8.7	431.3		28.5	Syenite	8.7	28.5	19.8	18.6	1.7	Eluvial						
534	XXVII	3779	48	439.8	8.0	431.8	8.0	431.8		20.0	Syenite	8.0	20.0	12.0	22.2	2.9	Eluvial	16.1	18.1	2.0	63.0	9.1	Eluvial
535	XXVII	3356	54	439.4	5.7	433.7	5.7	433.7		19.0	Syenite	12.0	18.0	6.0	13.0	2.0	Eluvial						
536	XXVII	3357	50	438.8	5.6	433.2	5.6	433.2		25.7	Granite				2.4	1.2	Eluvial						
537	XXVII	3358	48	438.2	5.0	433.2	5.0	433.2		25.5	Granite												
538	XXVII	3359	50	437.7	5.0	432.7	5.0	432.7		27.0	Granite												
539	XXVII	3360	50	437.4	3.8	433.6	3.8	433.6		23.4	Granite		2.0	2.0	18.8		Eluvial						
540	XXVII	3361	50	437.3	4.0	433.3	4.0	433.3		16.7	Granite												
541	XXVII	3362	50	437.5	3.9	433.6	12.9	424.6	9.0	15.2	Granite	10.3	12.9	2.6	8.4	2.5	Alluvial						
542	XXVII	3363	50	436.9	4.7	432.2	15.3	421.6	10.6	23.0	Granite	12.5	15.3	2.8	29.0	7.7	Alluvial						
543	XXVII	3364	50	436.4	6.8	429.6	17.0	419.4	10.2	20.0	Granite	11.0	17.0	6.0	24.0	4.6	Alluvial						
544	XXVII	3365	50	436.1	8.8	427.3	17.0	419.1	8.2	22.1	Granite	5.0	17.0	12.0	18.6	3.3	Alluvial						
545	XXVII	3366	52	435.4	5.0	430.4	18.0	417.4	13.0	20.5	Granite	8.4	18.0	9.6	31.9	5.9	Alluvial	13.6	16.6	3.0	58.0	10.9	Alluvial
546	XXVII	3367	48	434.7	3.8	430.9	18.6	416.1	14.8	20.1	Granite	5.7	20.0	14.3	28.7	5.4	Eluvial+Alluvial						
547	XXVII	3368	50	434.2	5.0	429.2	18.5	415.7	13.5	20.5	Granite	4.3	18.5	14.2	21.6	4.1	Alluvial						
548	XXVII	3369	50	433.6	4.2	429.4	19.8	413.8	15.6	21.0	Granite	4.2	19.8	15.6	28.0	4.7	Alluvial	14.0	15.0	1.0	54.7	8.7	Alluvial
549	XXVII	3370	52	433.0	4.0	429.0	17.5	415.5	13.5	19.4	Granite	5.7	17.5	11.8	24.5	4.5	Alluvial						
550	XXVII	3371	48	432.4	3.0	429.4	16.7	415.7	13.7	17.0	Granite	3.0	14.7	11.7	22.3	4.4	Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
551	XXVII	3372	52	431.9	3.3	428.6	11.3	420.6	8.0	12.3	Granite	3.3	11.3	8.0	34.2	6.3	Alluvial						
552	XXVII	3373	50	431.5	5.0	426.5	10.0	421.5	5.0	13.7	Granite	7.3	12.0	4.7	26.9	4.3	Alluvial						
553	XXVII	3374	50	431.1	4.0	427.1	10.5	420.6	6.5	16.0	Granite	4.0	10.5	6.5	33.9	5.1	Alluvial	7.4	8.0	0.6	53.2	8.4	Alluvial
554	XXVII	3375	50	430.4	3.2	427.2	7.4	423.0	4.2	16.2	Granite	3.2	7.4	4.2	28.3	6.8	Alluvial						
555	XXVII	3376	50	429.8	2.0	427.8	6.5	423.3	4.5	9.0	Granite	2.0	6.5	4.5	20.5	2.5	Alluvial						
556	XXVII	1445	48	429.5	3.0	426.5	3.0	426.5		4.1	Granite				1.6	0.7							
557	XXVII	3377	54	429.4	3.0	426.4	3.0	426.4		12.5	Granite				1.0	0.6							
558	XXVII	1891	190	429.8	3.7	426.1	3.7	426.1		19.7	Granite				1.0	0.6							
559	XXVII	1890	375	433.5	6.5	427.0	6.5	427.0		8.0	Granite				1.2	0.4							
560	XXVII	1889	402	430.9	4.2	426.7	4.2	426.7		20.2	Syenite				0.7	0.7							
561	XXVII	1888	400	429.0	7.0	422.0	7.0	422.0		19.2	Syenite				6.2	0.7							
562	XXVII	1887	400	426.8	4.5	422.3	4.5	422.3		7.0	Syenite				5.9	0.8							
563	XXVII	1886	395	428.9	2.3	426.6	2.3	426.6		10.0	Syenite	2.0	9.1	7.1	30.9	1.0	Eluvial						
564	XXVII	1885	397	431.7	5.5	426.2	5.5	426.2		10.0	Gabbro	3.0	5.5	2.5	9.8	2.3	Alluvial						
565	XXVII-A	2057		439.1	6.0	433.1	6.0	433.1		26.1	Granite												
566	XXVII-A	2387	105	437.2	4.8	432.4	4.8	432.4		25.0	Granite												
567	XXVII-A	2058	93	436.5	3.8	432.7	7.2	429.3	3.4	15.5	Granite	5.0	7.2	2.2	17.2	4.4	Alluvial						
568	XXVII-A	2388	114	436.4	4.2	432.2	14.8	421.6	10.6	19.2	Granite	13.0	14.8	1.8	37.6	5.8	Alluvial						
569	XXVII-A	2059	88	436.0	6.0	430.0	17.0	419.0	11.0	22.5	Granite	6.0	17.0	11.0	25.8	4.4	Alluvial	15.0	17.0	2.0	60.5	10.7	Alluvial
570	XXVII-A	2389	102	434.7	4.9	429.8	16.6	418.1	11.7	17.2	Granite	4.9	16.6	11.7	26.9	4.5	Alluvial						
571	XXVII-A	2060	88	433.5	4.1	429.4	13.7	419.8	9.6	14.7	Granite	4.1	13.7	9.6	22.1	4.5	Alluvial	11.6	13.1	1.5	58.4	9.5	Alluvial
572	XXVII-A	2390	101	432.3	3.9	428.4	13.0	419.3	9.1	13.5	Granite	3.9	13.0	9.1	38.4	6.7	Alluvial	12.1	13.0	0.9	65.4	11.3	Alluvial
573	XXVII-A	2061	97	431.2	2.0	429.2	8.7	422.5	6.7	9.0	Granite	2.0	8.7	6.7	31.7	5.0	Alluvial						
574	XXVII-A	2391	98	430.0	3.0	427.0	6.2	423.8	3.2	6.4	Granite	3.0	6.2	3.2	43.0	6.7	Alluvial	6.4	6.9	0.5	56.1	8.1	Alluvial
575	XXVII-A	2062	103	428.8	2.5	426.3	2.5	426.3		10.7	Granite												
576	XXVI	3326		437.6	7.5	430.1	16.7	420.9	9.2	22.3	Syenite	12.3	21.0	8.7	13.8	1.6	Eluvial+Alluvial						
577	XXVI	3327	74	439.7	11.5	428.2	11.5	428.2		20.6	Granite	12.9	16.9	4.0	7.8	2.1	Eluvial						
578	XXVI	3328	38	441.1	10.0	431.1	10.0	431.1		27.0	Granite	26.5	27.0	0.5	62.7	12.2	Eluvial	26.3	26.9	0.6	62.7	12.2	Eluvial
579	XXVI	3329	56	442.1	11.0	431.1	11.0	431.1		25.5	Granite												
580	XXVI	3330	45	442.2	11.0	431.2	11.0	431.2		29.0	Granite												
581	XXVI	3331	46	442.1	11.0	431.1	11.0	431.1		31.0	Granite												
582	XXVI	3332	56	441.7	9.4	432.3	9.4	432.3		20.0	Granite												
583	XXVI	3333	50	441.0	7.9	433.1	9.9	431.1	2.0	29.0	Granite	7.9	9.9	2.0	81.5	12.6	Alluvial						
584	XXVI	3334	44	439.3	7.0	432.3	9.0	430.3	2.0	29.0	Granite	7.0	9.0	2.0	5.7	1.1	Alluvial						
585	XXVI	3335	48	437.9	5.3	432.6	9.0	428.9	3.7	13.1	Granite	5.3	9.0	3.7	37.8	7.5	Alluvial						
586	XXVI	3336	50	436.7	3.0	433.7	9.0	427.7	6.0	13.1	Granite	5.2	8.5	3.3	26.6	4.4	Alluvial	5.2	5.8	0.6	86.3	7.7	Alluvial
587	XXVI	3337	50	435.9	3.5	432.4	8.6	427.3	5.1	25.7	Granite	6.0	8.6	2.6	30.9	6.7	Alluvial						
588	XXVI	3338	54	435.5	4.5	431.0	13.6	421.9	9.1	22.0	Granite	7.0	13.6	6.6	33.4	6.6	Alluvial						
589	XXVI	3339	50	435.8	5.2	430.6	12.5	423.3	7.3	22.2	Granite	7.0	12.5	5.5	31.8	6.3	Alluvial						
590	XXVI	3340	48	435.8	5.0	430.8	14.0	421.8	9.0	27.0	Granite	5.0	14.0	9.0	20.8	3.7	Alluvial						
591	XXVI	3341	46	435.6	6.0	429.6	16.0	419.6	10.0	29.4	Granite	6.0	16.0	10.0	34.2	6.0	Alluvial	7.7	10.1	2.4	98.0	6.8	Alluvial
592	XXVI	3342	46	435.4	6.0	429.4	13.3	422.1	7.3	18.0	Granite	7.3	13.3	6.0	43.2	7.0	Alluvial	7.2	8.9	1.7	61.3	10.2	Alluvial
593	XXVI	3343	52	434.8	4.9	429.9	15.1	419.7	10.2	15.1	Granite	4.9	15.1	10.2	29.8	5.3	Alluvial	12.8	13.4	0.6	55.1	10.5	Alluvial
594	XXVI	3344	46	434.2	5.9	428.3	14.2	420.0	8.3	15.0	Granite	5.9	14.2	8.3	30.2	5.2	Alluvial	8.2	10.0	1.8	52.1	8.8	Alluvial
595	XXVI	3345	58	433.4	4.0	429.4	11.9	421.5	7.9	13.0	Granite	4.0	11.9	7.9	35.8	7.0	Alluvial	7.0	9.2	2.2	66.5	12.9	Alluvial
596	XXVI	3346	50	432.7	5.0	427.7	11.7	421.0	6.7	12.0	Granite	5.0	11.7	6.7	27.4	6.2	Alluvial						
597	XXVI	3347	52	432.1	3.7	428.4	11.0	421.1	7.3	11.1	Granite	3.7	11.0	7.3	26.3	4.4	Alluvial						
598	XXVI	3348	50	431.4	3.0	428.4	9.0	422.4	6.0	9.2	Granite	3.0	9.0	6.0	21.3	5.2	Alluvial						
599	XXVI	3349	50	430.8	2.7	428.1	6.8	424.0	4.1	7.0	Granite	2.7	6.8	4.1	24.9	4.7	Alluvial						
600	XXVI	3350	50	430.2	3.5	426.7	6.5	423.7	3.0	6.5	Granite	3.5	6.5	3.0	16.9	3.2	Alluvial						
601	XXVI	3351	46	429.8	3.0	426.8	3.0	426.8		5.7	Granite												
602	XXVI	3352	48	428.3	3.0	425.3	3.0	425.3		3.9	Granite												
603	XXVI	3353	54	428.7	3.4	425.3	3.4	425.3		3.0	Granite												
604	XXVI	3354	100	428.4	3.5	424.9	3.5	424.9		6.6	Granite												
605	XXVI	3355	100	428.8	4.0	424.8	4.0	424.8		11.2	Granite												
606	XXV	1783		438.0	9.3	428.7	16.1	421.9	6.8	18.5	Syenite	9.3	16.5	7.2	59.6	10.3	Alluvial	14.0	16.2	2.2	105.0	17.5	Alluvial
607	XXV	2392	45	439.1	8.8	430.3	17.0	422.1	8.2	31.2	Syenite	8.8	17.0	8.2	45.9	9.4	Alluvial	9.9	17.0	7.1	68.7	9.8	Alluvial
608	XXV	3312	52	440.3	9.3	431.0	14.8	425.5	5.5	32.3	Syenite	10.8	24.0	13.2	57.0	10.8	Alluvial	12.2	18.3	6.1	100.6	18.9	Alluvial
609	XXV	2393	50	441.6	11.8	429.8	18.9	422.7	7.1	27.3	Syenite	9.0	18.9	9.9	43.8	7.1	Alluvial	13.9	18.9	5.0	71.9	12.1	Alluvial
610	XXV	3313	52	442.2	10.2	432.0	18.1	424.1	7.9	21.5	Granite	10.2	18.1	7.9	62.3	12.3	Alluvial	11.6	18.0	6.4	63.1	12.5	Alluvial
611	XXV	2394	48	442.5	10.7	431.8	18.3	424.2	7.6	23.0	Granite	11.7	20.4	8.7	57.8	9.4	Alluvial	13.7	18.3	4.7	91.5	10.2	Alluvial
612	XXV	3314	52	442.7	11.5	431.2	19.0	423.7	7.5	20.2	Granite	11.5	19.0	7.5	74.8	13.8	Alluvial	13.5	18.7	5.2	95.3	17.5	Alluvial
613	XXV	1884	48	442.2	10.0	432.2	17.2	425.0	7.2	17.2	Granite	12.0	17.2	5.2	50.0	9.6	Alluvial	14.1	17.2	3.2	61.5	11.9	Alluvial
614	XXV	3315	54	441.4	10.7	430.7	17.6	423.8	6.9	18.1	Granite	13.0	17.6	4.6	44.1	8.7	Alluvial	16.3	17.3	1.0	83.1	17.5	Alluvial
615	XXV	2395	44	440.7	10.2	430.5	12.0	428.7	1.8	14.0	Granite	10.0	11.7	1.7	2.7	0.7	Alluvial						
616	XXV	3316	56	439.2	9.4	429.8	14.5	424.7	5.1	15.6	Granite	11.7	13.7	2.0	8.5	2.1	Alluvial						
617	XXV	1883	47	437.9	6.0	431.9	11.3	426.6	5.3	11.5	Granite	6.0	11.3	5.3	19.0	5.0	Alluvial						
618	XXV	3317	54	436.1	6.5	429.6	10.8	425.3	4.3	11.3	Granite	6.5	10.8	4.3	26.9	5.7	Alluvial						
619	XXV	2396	36	431.9	5.8	426.1	7.2	424.7	1.4	8.7	Granite	4.7	7.2	2.5	38.9	6.6	Alluvial						
620	XXV	3318	56	433.9	3.0	430.9	8.5	425.4	5.5	10.5	Granite	3.0	8.5	5.5	21.5	4.2	Alluvial						
621	XXV	1882	52	433.8	4.5	429.3	10.2	423.6	5.7	10.7	Granite	4.5	10.2	5.7	30.3	5.4	Alluvial						
622	XXV	3319	50	433.8	6.5	427.3	10.9	422.9	4.4	11.4	Granite	5.0	10.9	5.9	42.6	7.9	Alluvial	7.0	10.6	3.6	52.7	9.4	Alluvial
623	XXV	2397	50	433.8	7.5	426.3	12.8	421.0	5.3	15.2	Granite	5.5	12.8	7.3	31.4	5.2	Alluvial						
624	XXV	3320	52	433.8	7.0	426.8	12.7	421.1	5.7	14.6	Granite	7.0	12.7	5.7	37.1	6.8	Alluvial						
625	XXV	1881	48	433.7	5.1	428.6	13.7	420.0	8.6	21.3	Granite	5.1	16.0	10.9	26.5	4.8	Eluvial+Alluvial						
626	XXV	3321	52	433.2	7.0	426.2	16.3	416.9	9.3	18.2	Granite	7.0	16.3	9.3	40.0	7.0	Alluvial	10.0	13.3	3.4	54.5	7.8	Alluvial
627	XXV	2398	52	432.5	6.0	426.5	18.0	414.5	12.0	18.2	Granite	5.0	18.0	13.0	28.6	4.8	Eluvial+Alluvial	8.7	10.1	1.4	51.9	8.8	Alluvial
628	XXV	3322	50	431.9	5.0	426.9	14.5	417.4	9.5	19.5	Granite	5.0	14.5	9.5	31.5	6.1	Alluvial						
629	XXV	1880	48	431.8	4.8	427.0	11.8	420.0	7.0	18.2	Granite	4.8	11.8	7.0	23.1	4.7	Alluvial						
630	XXV	3323	40	430.7	7.5	423.2	12.3	418.4	4.8	17.3	Granite	6.7	12.3	5.6	38.8	8.0	Alluvial						
631	XXV	2399	54	430.1	4.0	426.1	10.1	420.0	6.1	15.5	Granite	4.0	10.1	6.1	34.1	6.7	Alluvial						
632	XXV	3324	42	429.5	3.9	425.6	8.8	420.7	4.9	18.5	Granite	3.9	8.9	5.0	34.2	6.9	Alluvial						
633	XXV	1879	50	428.9	3.0	425.9	4.0	424.9	1.0	21.7	Granite	3.0	4.0	1.0	39.3	7.6	Alluvial						
634	XXV	3325	48	428.7	3.8	424.9	6.7	422.0	2.9	15.0	Granite	3.8	6.7	2.9	42.7	9.9	Alluvial	3.9	5.2	1.3	50.5	9.7	Alluvial
635	XXV	2400	52	428.4	4.0	424.4	4.6	423.8	0.6	23.3	Granite	4.0	4.6	0.6	71.1	9.5	Alluvial	4.0	4.8	0.8	71.1	9.5	Alluvial
636	XXV	3378	48	428.3	3.9	424.4	3.9	424.4		23.0	Granite												
637	XXV	1878	47	428.3	3.7	424.6	3.7	424.6		10.5	Granite	3.9	6.0	2.1	15.2	2.8							
638	XXV	1877	402	428.5	2.0	426.5	2.0	426.5		7.2	Granite												
639	XXV	4561	305	432.1	5.0	427.1	5.0	427.1		25.5	Granite												
640	XXV	1876	98	432.2	6.0	426.2	7.8	424.4	1.8	20.0	Granite	6.0	8.0	2.0	27.2	6.0	Alluvial						
641	XXV	4506	100	430.7	7.0	423.7	9.2	421.5	2.2	23.0	Granite	7.0	9.4	2.4	38.9	6.8	Alluvial						
642	XXV	4507	100	429.7	6.5	423.2	9.0	420.7	2.5	27.0	Granite	6.0	9.0	3.0	35.1	6.1	Alluvial						
643	XXV	1875	194	428.9	10.4	418.5	10.4	418.5		26.5	Granite	10.5	13.0	2.5	14.7	2.9	Eluvial						
644	XXV	1874	390	425.6	4.1	421.5	4.1	421.5		4.5	Syenite												
645	XXV	1873	390	425.3	1.0	424.3	1.0	424.3		9.7	Gabbro	0.8	9.5	8.7	35.2	2.1	Alluvial						
646	XXV	1872	394	427.7	8.1	419.6	8.1	419.6		9.0	Granite												
647	XXV	1871	398	430.4	6.5	423.9	6.5	423.9		6.8	Granite												
648	XXIV	1782		440.3	5.3	435.0	11.8	428.5	6.5	26.0	Granite	9.7	11.8	2.1	27.5	6.7	Alluvial						
649	XXIV	3682	60	441.2	8.0	433.2	13.7	427.5	5.7	32.0	Granite	11.0	13.7	2.7	34.3	8.7	Alluvial	11.8	12.6	0.8	61.1	10.9	Alluvial
650	XXIV	3285	60	441.6	7.0	434.6	14.8	426.8	7.8	24.0	Granite	3.0	14.8	11.8	27.8	4.8	Alluvial	13.0	14.8	1.8	86.1	16.6	Alluvial
651	XXIV	3286	52	441.4	8.3	433.1	14.4	427.0	6.1	24.0	Granite	10.0	14.4	4.4	58.2	10.8	Alluvial	12.3	14.4	2.1	111.9	20.4	Alluvial
652	XXIV	3287	50	441.3	7.0	434.3	15.6	425.7	8.6	17.0	Granite	11.8	15.6	3.8	40.2	8.3	Alluvial	12.9	14.8	1.9	85.9	15.4	Alluvial
653	XXIV	3288	48	441.2	7.0	434.2	13.8	427.4	6.8	16.6	Granite	3.0	16.6	13.6	22.5	4.1	Eluvial+Alluvial	12.0	14.0	2.0	92.2	18.6	Alluvial
654	XXIV	3708	54	440.7	8.6	432.1	13.7	427.0	5.1	16.2	Granite	8.6	13.7	5.1	47.5	8.5	Alluvial	10.2	13.2	3.0	71.5	14.1	Alluvial
655	XXIV	3289	45	441.2	9.0	432.2	13.1	428.1	4.1	17.0	Granite	11.0	13.1	2.1	67.0	11.8	Alluvial	11.0	13.0	2.0	67.0	11.8	Alluvial
656	XXIV	3290	44	440.7	7.8	432.9	15.0	425.7	7.2	15.0	Granite	7.8	15.0	7.2	26.6	6.0	Alluvial	13.0	14.1	1.1	53.2	11.0	Alluvial
657	XXIV	3291	54	440.5	8.0	432.5	15.3	425.2	7.3	15.5	Granite	9.0	13.6	4.6	76.4	14.4	Alluvial	11.0	13.8	2.8	124.4	23.5	Alluvial
658	XXIV	3709	53	439.5	7.8	431.7	16.3	423.2	8.5	16.3	Granite	9.2	16.3	7.1	63.9	13.2	Alluvial	9.2	16.2	7.0	63.4	13.1	Alluvial
659	XXIV	216	54	438.3	7.0	431.3	15.5	422.8	8.5	15.6	Granite	7.6	15.5	7.9	69.6	12.3	Alluvial	10.7	15.5	4.8	90.8	16.2	Alluvial
660	XXIV	3710	44	437.2	5.0	432.2	13.9	423.3	8.9	13.9	Granite	5.0	13.9	8.9	50.2	9.2	Alluvial	9.4	13.9	4.5	68.2	12.9	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
661	XXIV	3293	48	435.5	4.2	431.3	12.3	423.2	8.1	12.4	Granite	4.2	12.3	8.1	76.3	13.7	Alluvial	7.5	12.4	4.9	104.1	96.7	Alluvial
662	XXIV	3711	46	434.3	3.8	430.5	12.2	422.1	8.4	12.2	Granite	3.8	12.2	8.4	58.2	11.4	Alluvial	8.0	10.0	2.0	114.1	21.9	Alluvial
663	XXIV	3294	54	433.6	3.0	430.6	5.0	428.6	2.0	12.8	Granite	1.5	12.0	10.5	46.2	8.8	Alluvial	7.1	12.0	4.9	73.6	13.6	Alluvial
664	XXIV	3712	46	433.4	3.0	430.4	12.8	420.6	9.8	12.8	Granite	3.0	12.8	9.8	39.3	9.0	Alluvial	9.0	12.7	3.7	61.4	15.8	Alluvial
665	XXIV	3295	42	433.3	3.0	430.3	14.3	419.0	11.3	14.7	Granite	0.3	12.6	12.3	35.0	7.0	Alluvial	7.2	8.7	1.5	51.2	8.6	Alluvial
666	XXIV	3296	50	433.3	6.0	427.3	14.3	419.0	8.3	14.7	Granite	5.0	14.3	9.3	38.6	6.9	Alluvial	6.1	10.1	4.0	52.7	9.8	Alluvial
667	XXIV	3297	48	432.9	5.3	427.6	14.0	418.9	8.7	16.5	Granite	4.4	16.0	11.6	60.4	7.6	Alluvial	7.4	9.4	2.0	52.1	10.5	Alluvial
668	XXIV	3298	54	433.1	7.0	426.1	15.9	417.2	8.9	17.3	Granite	0.3	15.9	15.6	31.0	6.5	Alluvial	9.0	10.9	1.9	55.6	10.5	Alluvial
669	XXIV	3194	46	432.7	5.5	427.2	15.1	417.6	9.6	15.4	Granite	4.5	15.3	10.8	31.1	5.4	Alluvial	9.6	11.6	2.0	58.8	9.1	Alluvial
670	XXIV	3299	50	432.3	2.0	430.3	14.2	418.1	12.2	14.2	Granite	2.0	12.2	10.2	29.0	4.6	Alluvial	8.2	10.1	1.9	56.2	7.6	Alluvial
671	XXIV	3300	45	431.6	3.0	428.6	9.0	422.6	6.0	15.0	Granite	3.0	9.0	6.0	37.0	6.3	Alluvial						
672	XXIV	3301	55	431.2	1.0	430.2	12.8	418.4	11.8	15.1	Granite	0.4	12.8	12.4	29.1	5.0	Alluvial	0.4	1.5	1.1	50.7	18.8	Alluvial
673	XXIV	3302	49	431.0	3.0	428.0	8.7	422.3	5.7	11.6	Granite	3.0	8.7	5.7	19.0	3.2	Alluvial						
674	XXIV	3303	52	430.3	2.6	427.7	6.0	424.3	3.4	14.1	Granite	2.6	6.0	3.4	27.6	5.1	Alluvial						
675	XXIV	3304	40	430.1	4.0	426.1	6.1	424.0	2.1	18.5	Granite	4.0	6.1	2.1	40.3	6.9	Alluvial						
676	XXIV	3305	49	429.3	4.0	425.3	7.5	421.8	3.5	12.0	Granite	2.0	7.5	5.5	20.5	3.6	Alluvial						
677	XXIV	1157	48	428.9	4.0	424.9	4.0	424.9		10.0	Granite	4.0	5.0	1.0	48.0	7.0	Alluvial						
678	XXIV	3306	52	428.1	4.0	424.1	4.0	424.1		16.0	Granite												
679	XXIV	1158	48	426.9	3.7	423.2	3.7	423.2		11.0	Granite												
680	XXIV	3307	54	426.5	2.0	424.5	4.9	421.6	2.9	10.2	Granite	2.0	4.9	2.9	13.3	1.6	Eluvial+Alluvial						
681	XXIV	1159	48	425.9	3.2	422.7	3.2	422.7		8.6	Granite												
682	XXIV	3308	50	425.9	3.9	422.0	3.9	422.0		7.4	Granite												
683	XXIV	220	50	426.3	3.2	423.1	3.2	423.1		15.0	Granite	9.0	11.0	2.0	21.3	1.4	Eluvial						
684	XXIV	3309	48	426.1	3.8	422.3	3.8	422.3		10.6	Granite												
685	XXIV	1160	51	426.0	3.4	422.6	3.4	422.6		10.0	Granite												
686	XXIV	3310	51	426.1	4.9	421.2	4.9	421.2		10.0	Granite	3.0	4.9	1.9	17.8	2.3	Alluvial						
687	XXIV	1161	47	425.9	4.0	421.9	4.0	421.9		11.0	Granite												
688	XXIV	3311	62	425.6	4.2	421.4	4.2	421.4		15.0	Granite												
689	XXIV	1162	45	425.5	3.4	422.1	3.4	422.1		6.0	Granite												
690	XXIV	413	83	426.5	2.0	424.5	3.4	423.1	1.4	7.7	Granite												
691	XXIV	4560	96	427.5	3.8	423.7	6.1	421.4	2.3	17.8	Granite	3.8	6.1	2.3	38.1	8.3	Alluvial						
692	XXIV	4559	92	428.4	2.0	426.4	8.7	419.7	6.7	18.0	Granite	3.4	8.7	5.3	36.2	8.2	Alluvial						
693	XXIV	4508	96	428.7	2.5	426.2	7.0	421.7	4.5	7.5	Granite	3.8	7.0	3.2	26.6	6.6	Alluvial						
694	XXIV	414	94	429.2	5.3	423.9	5.3	423.9		7.6	Granite												
695	XXIV	4511	88	428.5	6.2	422.3	6.2	422.3		20.0	Granite												
696	XXIV	415	328	425.6	6.7	418.9	6.7	418.9		12.0	Granite												
697	XXIV	416	370	423.5	6.5	417.0	6.5	417.0		8.4	Syenite												
698	XXIV	417	448	424.0	6.8	417.2	6.8	417.2		7.2	Gabbro												
699	XXIII	1781		441.6	6.0	435.6	16.0	425.6	10.0	23.0	Granite	9.5	20.0	10.5	29.8	6.7	Alluvial	15.1	15.9	0.8	50.7	11.6	Alluvial
700	XXIII	2403	67	442.4	6.5	435.9	17.0	425.4	10.5	24.7	Granite	6.5	17.0	10.5	24.0	5.5	Alluvial	14.4	16.9	2.5	61.2	14.6	Alluvial
701	XXIII	1870	50	443.2	5.0	438.2	12.0	431.2	7.0	18.0	Granite	5.0	12.0	7.0	16.5	2.4	Alluvial						
702	XXIII	3269	56	442.8	10.0	432.8	16.2	426.6	6.2	19.6	Granite	10.0	14.0	4.0	15.6	3.4	Alluvial						
703	XXIII	2404	50	442.0	11.8	430.2	17.0	425.0	5.2	27.7	Granite	11.8	17.0	5.2	25.7	7.0	Alluvial						
704	XXIII	3270	37	441.7	10.0	431.7	13.5	428.2	3.5	21.0	Granite	11.0	13.5	2.5	32.6	6.0	Alluvial						
705	XXIII	1869	68	439.7	8.2	431.5	11.5	428.2	3.3	18.2	Granite	4.0	11.5	7.5	18.2	12.8	Alluvial						
706	XXIII	3271	50	438.2	8.0	430.2	12.5	425.7	4.5	18.5	Granite	10.0	12.5	2.5	16.5	3.3	Alluvial						
707	XXIII	2405	50	431.7	6.8	424.9	11.6	420.1	4.8	16.0	Granite	6.8	11.6	4.8	44.9	10.5	Alluvial	11.0	11.9	0.9	69.1	16.9	Alluvial
708	XXIII	3272	48	436.7	7.9	428.8	12.0	424.7	4.1	19.0	Granite	7.9	12.0	4.1	30.7	6.9	Alluvial						
709	XXIII	1868	55	434.6	4.0	430.6	13.0	421.6	9.0	13.5	Granite	4.0	13.0	9.0	21.9	3.4	Alluvial						
710	XXIII	3273	50	436.0	4.5	431.5	10.3	425.7	5.8	14.5	Granite	4.5	10.3	5.8	35.4	7.6	Alluvial	8.1	10.5	2.4	55.3	6.2	Alluvial
711	XXIII	2406	50	435.5	5.1	430.4	8.5	427.0	3.4	18.7	Granite	5.1	8.5	3.4	38.2	8.1	Alluvial						
712	XXIII	3274	46	434.7	5.7	429.0	9.0	425.7	3.3	14.0	Granite	5.7	9.0	3.3	33.7	6.2	Alluvial	7.9	9.3	1.4	53.5	9.4	Alluvial
713	XXIII	1867	48	434.2	4.5	429.7	9.0	425.2	4.5	18.5	Granite	1.0	9.0	8.0	37.5	10.6	Alluvial	4.6	9.3	4.7	61.5	17.3	Alluvial
714	XXIII	3275	50	433.4	3.0	430.4	12.0	421.4	9.0	14.0	Granite	3.0	12.0	9.0	35.3	7.3	Alluvial	7.0	8.6	1.6	52.6	11.0	Alluvial
715	XXIII	2407	52	432.8	3.9	428.9	13.3	419.5	9.4	13.8	Granite	3.9	13.3	9.4	36.6	5.9	Alluvial	7.1	9.1	2.0	52.5	8.9	Alluvial
716	XXIII	3276	50	432.5	3.0	429.5	12.2	420.3	9.2	15.5	Granite	3.0	12.2	9.2	39.4	8.4	Alluvial	10.2	12.4	2.2	51.2	13.1	Alluvial
717	XXIII	1866	50	432.7	3.0	429.7	9.0	423.7	6.0	13.7	Granite	3.0	9.0	6.0	26.8	4.1	Alluvial	8.2	10.3	2.1	52.6	9.9	Alluvial
718	XXIII	3277	48	431.7	4.3	427.4	12.4	419.3	8.1	12.5	Granite	4.3	12.4	8.1	34.1	6.9	Alluvial						
719	XXIII	3278	54	431.3	3.8	427.5	14.2	417.1	10.4	15.0	Granite	3.8	14.7	10.9	55.5	6.9	Alluvial						
720	XXIII	3279	50	431.2	3.7	427.5	14.2	417.0	10.5	14.3	Granite	3.7	14.2	10.5	42.5	8.1	Alluvial						
721	XXIII	3788	50	431.2	5.0	426.2	13.3	417.9	8.3	14.5	Granite	5.0	13.3	8.3	26.0	5.4	Alluvial						
722	XXIII	3280	48	431.4	4.0	427.4	11.7	419.7	7.7	11.7	Granite	4.2	11.7	7.5	36.5	7.7	Alluvial						
723	XXIII	2409	50	431.6	3.0	428.6	11.9	419.7	8.9	17.0	Granite	3.0	11.9	8.9	37.7	6.5	Alluvial	10.1	12.0	1.9	65.0	9.0	Alluvial
724	XXIII	3281	48	431.3	4.0	427.3	8.8	422.5	4.8	11.2	Granite	4.0	8.8	4.8	34.1	7.7	Alluvial						
725	XXIII	1864	48	430.3	3.0	427.3	5.0	425.3	2.0	11.0	Granite	3.0	5.0	2.0	1.0	0.5	Alluvial						
726	XXIII	3282	50	429.1	3.5	425.6	9.0	420.1	5.5	18.7	Granite	3.3	9.0	5.7	35.2	6.8	Alluvial						
727	XXIII	2410	48	428.4	3.0	425.4	7.2	421.2	4.2	19.5	Granite	3.0	7.2	4.2	35.4	7.0	Alluvial						
728	XXIII	3283	50	427.9	4.3	423.6	6.8	421.1	2.5	16.0	Granite	4.3	6.8	2.5	43.4	7.6	Alluvial	5.4	6.6	1.2	81.5	9.7	Alluvial
729	XXIII	3787	48	428.2	4.1	424.1	5.9	422.3	1.8	13.2	Granite	4.1	5.5	1.4	26.8	6.0	Alluvial						
730	XXIII	3284	50	427.4	3.1	424.3	5.4	422.0	2.3	16.2	Granite	3.4	5.4	2.0	9.2	1.6	Alluvial						
731	XXIII	2411	48	426.7	3.5	423.2	5.0	421.7	1.5	15.0	Granite	3.5	5.0	1.5	44.2	7.7	Alluvial						
732	XXIII	1862	100	425.9	4.3	421.6	4.3	421.6		6.0	Granite												
733	XXIII	2427	98	425.3	5.2	420.1	5.2	420.1		16.8	Granite	2.8	5.2	2.4	37.4	7.5	Alluvial						
734	XXIII	1861	100	424.9	3.0	421.9	3.0	421.9		6.0	Granite												
735	XXIII	1860	194	424.6	3.2	421.4	3.2	421.4		10.0	Granite												
736	XXIII	4563	100	424.8	4.8	420.0	4.8	420.0		5.0	Granite	3.2	4.9	1.7	26.2	4.1	Alluvial						
737	XXIII	4562	100	424.8	3.1	421.7	3.1	421.7		9.0	Granite	2.6	3.0	0.4	59.8	12.5	Alluvial	2.5	3.0	0.5	59.7	12.6	Alluvial
738	XXIII	4509	98	426.5	3.2	423.3	3.2	423.3		12.5	Granite												
739	XXIII	1859	100	425.9	4.0	421.9	4.0	421.9		20.0	Granite												
740	XXIII	4512	98	425.9	7.0	418.9	7.0	418.9		16.0	Granite												
741	XXIII	1858	98	425.3	4.5	420.8	4.5	420.8		4.5	Granite												
742	XXIII	1857	380	422.9	7.0	415.9	7.0	415.9		7.5	Granite												
743	XXII	1780		442.2	5.2	437.0	17.0	425.2	11.8	25.0	Granite	5.2	17.0	11.8	16.1	3.4	Alluvial	14.8	16.9	2.1	59.8	8.3	Alluvial
744	XXII	3232	50	442.5	6.0	436.5	15.1	427.4	9.1	21.0	Granite	11.5	16.1	4.6	17.1	6.4	Alluvial						
745	XXII	3233	50	442.7	7.8	434.9	16.5	426.2	8.7	23.0	Granite	12.0	16.1	4.1	18.7	5.1	Alluvial						
746	XXII	3234	48	442.7	8.2	434.5	17.0	425.7	8.8	27.1	Granite	11.0	17.0	6.0	25.7	6.5	Alluvial	14.8	17.1	2.3	56.1	13.2	Alluvial
747	XXII	3235	50	442.5	8.0	434.5	18.0	424.5	10.0	31.3	Granite	10.0	18.0	8.0	9.5	3.4	Alluvial						
748	XXII	3236	48	442.2	9.0	433.2	19.0	423.2	10.0	32.0	Granite	15.0	19.0	4.0	21.5	5.1	Alluvial						
749	XXII	3237	48	441.2	7.5	433.7	17.7	423.5	10.2	33.0	Granite	16.0	17.7	1.7	56.5	14.9	Alluvial	15.8	17.3	1.6	55.5	15.0	Alluvial
750	XXII	3238	46	440.3	7.0	433.3	19.2	421.1	12.2	31.0	Granite	16.6	19.2	2.6	22.3	5.6	Alluvial						
751	XXII	3239	30	439.5	6.7	432.8	16.7	422.8	10.0	31.0	Granite	6.7	16.7	10.0	19.1	3.9	Alluvial	13.1	14.9	1.8	50.3	12.0	Alluvial
752	XXII	3240	46	438.7	5.8	432.9	15.2	423.5	9.4	26.5	Granite	5.8	15.2	9.4	24.5	8.2	Alluvial	14.0	15.1	1.1	75.2	18.2	Alluvial
753	XXII	3241	48	437.9	6.1	431.8	15.0	422.9	8.9	25.0	Granite	6.1	15.0	8.9	16.4	3.2	Alluvial						
754	XXII	3242	46	437.2	6.2	431.0	14.0	423.2	7.8	24.3	Granite	8.0	14.0	6.0	50.5	12.5	Alluvial	10.1	12.4	2.3	81.7	22.6	Alluvial
755	XXII	3243	50	436.1	6.1	430.0	10.5	425.6	4.4	28.2	Granite	6.1	10.5	4.4	36.9	9.0	Alluvial						
756	XXII	3244	50	435.3	5.7	429.6	12.1	423.2	6.4	24.0	Granite	5.7	12.1	6.4	25.9	7.2	Alluvial						
757	XXII	3713	50	434.7	6.0	428.7	10.0	424.7	4.0	21.0	Granite	6.5	10.0	3.5	37.3	8.4	Alluvial						
758	XXII	3245	50	434.0	5.4	428.6	8.3	425.7	2.9	16.0	Granite	5.4	8.3	2.9	36.9	7.8	Alluvial	6.4	8.3	1.9	50.5	10.3	Alluvial
759	XXII	3714	52	433.4	6.2	427.2	12.9	420.5	6.7	15.5	Granite	7.9	12.9	5.0	43.1	7.6	Alluvial	7.9	9.1	1.2	67.5	3.5	Alluvial
760	XXII	3246	50	432.9	5.7	427.2	13.1	419.8	7.4	20.1	Granite	5.7	13.1	7.4	42.7	8.6	Alluvial	7.0	9.2	2.2	63.6	12.1	Alluvial
761	XXII	3715	54	432.6	5.6	427.0	13.1	419.5	7.5	13.7	Granite	3.0	13.1	10.1	34.5	6.7	Alluvial	6.7	9.1	2.4	63.4	13.8	Alluvial
762	XXII	3247	48	432.3	4.0	428.3	11.3	421.0	7.3	13.0	Granite	4.0	13.0	9.0	34.1	6.6	Eluvial+Alluvial						
763	XXII	3248	46	431.9	4.9	427.0	11.3	420.6	6.4	16.6	Granite	4.9	14.3	9.4	39.5	8.7	Alluvial	7.8	9.2	1.4	67.7	14.5	Alluvial
764	XXII	3249	46	431.2	3.7	427.5	15.0	416.2	11.3	16.5	Granite	3.7	15.7	12.0	30.6	6.7	Alluvial						
765	XXII	3250	54	430.8	4.5	426.3	14.2	416.6	9.7	16.3	Granite	4.5	14.2	9.7	31.0	6.8	Alluvial	7.8	9.9	2.1	53.6	11.9	Alluvial
766	XXII	3251	50	430.6	4.0	426.6	13.3	417.3	9.3	13.5	Granite	4.0	13.3	9.3	38.4	8.1	Alluvial						
767	XXII	3252	48	430.5	3.3	427.2	14.6	415.9	11.3	17.0	Granite	3.3	14.6	11.3	30.4	5.4	Alluvial	10.2	12.2	2.0	52.1	9.4	Alluvial
768	XXII	3253	48	430.1	3.5	426.6	18.0	412.1	14.5	22.5	Granite	3.5	18.0	14.5	25.6	5.6	Alluvial						
769	XXII	3254	64	429.5	3.5	426.0	15.0	414.5	11.5	18.0	Granite	5.3	15.0	9.7	42.9	6.9	Alluvial	10.5	12.5	2.0	54.8	5.9	Alluvial
770	XXII	3255	52	428.9	3.0	425.9	13.2	415.7	10.2	17.8	Granite	3.0	15.2	12.2	33.1	6.2	Eluvial+Alluvial	8.0	10.2	2.2	65.3	10.3	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY-BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
771	XXII	3256	50	428.9	3.0	425.9	8.5	420.4	5.5	30.5	Granite	3.0	8.5	5.5	35.4	8.2	Alluvial						
772	XXII	3257	52	428.5	3.0	425.5	11.0	417.5	8.0	20.8	Granite	3.0	8.8	5.8	28.3	5.7	Alluvial						
773	XXII	3258	50	428.2	5.4	422.8	9.3	418.9	3.9	27.0	Granite	5.0	9.3	4.3	32.8	6.0	Alluvial						
774	XXII	3259	50	427.9	4.5	423.4	9.1	418.8	4.6	29.0	Granite	4.5	9.1	4.6	24.3	8.0	Alluvial						
775	XXII	1139	50	427.6	3.6	424.0	8.3	419.3	4.7	22.0	Granite	3.6	10.0	6.4	31.4	6.2	Alluvial	6.8	8.5	1.7	64.7	11.4	Alluvial
776	XXII	3260	52	427.3	3.8	423.5	5.7	421.6	1.9	12.0	Granite	3.8	7.0	3.2	17.4	3.8	Alluvial						
777	XXII	1140	50	426.9	2.5	424.4	6.7	420.2	4.2	23.3	Granite	2.5	10.0	7.5	27.9	5.1	Alluvial	6.9	7.8	0.9	67.5	11.0	Alluvial
778	XXII	3261	44	426.5	4.1	422.4	4.8	421.7	0.7	17.1	Granite	4.1	6.0	1.9	31.5	6.4	Alluvial	3.9	4.9	1.0	66.2	12.3	Alluvial
779	XXII	3262	50	426.0	4.5	421.5	5.8	420.2	1.3	14.0	Granite	4.5	5.8	1.3	1.4	0.7	Alluvial						
780	XXII	3263	62	424.9	4.0	420.9	5.5	419.4	1.5	12.0	Granite	4.0	5.5	1.5	15.7	3.4	Alluvial						
781	XXII	3264	68	424.5	3.8	420.7	5.2	419.3	1.4	11.5	Granite	3.8	5.2	1.4	30.6	7.1	Alluvial						
782	XXII	1143	66	425.0	3.9	421.1	6.0	419.0	2.1	11.5	Granite	3.9	6.0	2.1	16.9	3.4	Alluvial						
783	XXII	3265	50	424.7	3.1	421.6	4.3	420.4	1.2	10.7	Granite	3.1	4.3	1.2	15.9	3.6	Alluvial						
784	XXII	1144	50	424.3	3.2	421.1	5.5	418.8	2.3	11.0	Granite	3.2	6.6	3.4	31.0	5.7	Alluvial	4.1	5.1	1.0	51.1	6.1	Alluvial
785	XXII	3266	50	423.9	3.3	420.6	5.8	418.1	2.5	10.0	Granite	3.3	5.8	2.5	25.8	5.5	Alluvial						
786	XXII	1145	50	423.6	1.7	421.9	5.4	418.2	3.7	12.5	Granite	1.7	5.4	3.7	27.7	5.7	Alluvial	3.2	4.3	1.1	54.5	10.6	Alluvial
787	XXII	3267	50	423.5	3.0	420.5	5.7	417.8	2.7	8.0	Granite	3.0	5.7	2.7	21.8	2.2	Alluvial						
788	XXII	1146	50	423.5	3.0	420.5	3.0	420.5		9.2	Granite												
789	XXII	3268	48	423.4	3.9	419.5	3.9	419.5		14.0	Granite												
790	XXI	1779		443.6	8.0	435.6	8.0	435.6		18.0	Granite												
791	XXI	2413	64	443.2	6.0	437.2	9.3	433.9	3.3	16.0	Granite	6.0	7.8	1.8	9.7	2.8	Alluvial						
792	XXI	3171	38	442.8	7.5	435.3	8.2	434.6	0.7	19.5	Granite	2.5	4.0	1.5	11.2	1.8	Alluvial						
793	XXI	3172	102	441.9	9.0	432.9	9.5	432.4	0.5	18.0	Granite												
794	XXI	2414	58	441.2	9.0	432.2	9.0	432.2		10.2	Granite												
795	XXI	3173	47	440.8	8.0	432.8	8.5	432.3	0.5	14.8	Granite	2.0	4.0	2.0	9.4	2.7	Alluvial						
796	XXI	1856	40	440.3	6.0	434.3	16.0	424.3	10.0	17.5	Granite												
797	XXI	3174	58	439.6	7.7	431.9	12.0	427.6	4.3	12.8	Granite	7.3	7.7	0.4	11.9	4.2	Alluvial						
798	XXI	2415	57	438.8	6.0	432.8	12.3	426.5	6.3	13.4	Granite												
799	XXI	3175	44	438.3	7.0	431.3	12.2	426.1	5.2	13.3	Granite												
800	XXI	1855	40	437.7	4.5	433.2	13.5	424.2	9.0	16.5	Granite	8.5	13.5	5.0	4.9	3.2	Alluvial						
801	XXI	3176	58	437.2	6.8	430.4	14.5	422.7	7.7	20.4	Granite	12.8	14.5	1.7	8.7	4.0	Alluvial						
802	XXI	2416	52	436.6	7.0	429.6	15.0	421.6	8.0	18.2	Granite	13.0	15.0	2.0	21.8	5.4	Alluvial						
803	XXI	3177	48	435.8	4.5	431.3	12.4	423.4	7.9	15.1	Granite	10.0	12.4	2.4	11.2	4.0	Alluvial						
804	XXI	3178	44	435.1	5.2	429.9	11.0	424.1	5.8	12.5	Granite	7.3	11.0	3.7	14.5	4.7	Alluvial						
805	XXI	3179	52	434.1	5.0	429.1	7.8	426.3	2.8	10.5	Granite	5.1	8.0	2.9	20.4	5.0	Alluvial	7.2	7.8	0.6	53.3	11.9	Alluvial
806	XXI	3180	52	433.5	5.0	428.5	8.9	424.6	3.9	11.7	Granite	2.0	8.9	6.9	14.7	4.0	Alluvial						
807	XXI	3181	48	432.9	6.2	426.7	10.3	422.6	4.1	14.3	Granite	2.9	10.3	7.4	25.5	5.3	Alluvial	6.9	8.0	1.1	62.9	13.3	Alluvial
808	XXI	1853	48	432.9	6.0	426.9	13.0	419.9	7.0	16.5	Granite	6.0	16.5	10.5	16.4	3.1	Eluvial+Alluvial						
809	XXI	3182	42	431.3	6.1	425.2	13.0	418.3	6.9	14.2	Granite	6.1	13.0	6.9	32.9	6.9	Alluvial	6.3	6.7	0.4	62.9	9.6	Alluvial
810	XXI	2418	44	430.7	4.4	426.3	12.4	418.3	8.0	15.2	Granite	4.4	12.4	8.0	33.6	5.7	Alluvial						
811	XXI	3183	50	430.0	2.5	427.5	11.8	418.2	9.3	12.8	Granite	2.5	11.8	9.3	30.3	6.7	Alluvial						
812	XXI	1852	50	429.5	2.5	427.0	13.0	416.5	10.5	13.3	Granite	2.5	13.0	10.5	43.3	7.5	Alluvial	6.0	13.0	7.0	50.6	9.1	Alluvial
813	XXI	3184	50	429.0	0.8	428.2	13.0	416.0	12.2	14.0	Granite	0.8	13.0	12.2	25.3	5.2	Alluvial	6.7	7.4	0.7	52.1	8.9	Alluvial
814	XXI	2419	48	428.8	2.3	426.5	14.0	414.8	11.7	14.7	Granite	2.3	14.0	11.7	37.0	6.6	Alluvial	9.9	12.0	2.1	61.3	10.3	Alluvial
815	XXI	3185	50	428.9	3.7	425.2	14.0	414.9	10.3	15.0	Granite	3.7	14.0	10.3	32.5	6.3	Alluvial						
816	XXI	4164	48	428.8	3.9	424.9	14.3	414.5	10.4	15.0	Granite	3.9	14.8	10.9	34.3	5.8	Alluvial	6.3	8.5	2.2	57.0	9.6	Alluvial
817	XXI	3187	52	428.5	3.0	425.5	15.5	413.0	12.5	16.0	Granite	3.0	15.5	12.5	27.2	5.1	Alluvial						
818	XXI	2420	48	428.1	4.4	423.7	19.0	409.1	14.6	19.5	Granite	4.4	19.0	14.6	24.7	4.2	Alluvial						
819	XXI	3188	54	427.5	2.0	425.5	16.0	411.5	14.0	18.0	Granite	2.0	16.0	14.0	36.6	7.2	Alluvial						
820	XXI	1850	50	427.0	0.6	426.4	15.0	412.0	14.4	16.4	Granite	0.6	15.0	14.4	18.1	3.9	Alluvial	12.9	14.9	2.0	50.4	7.6	Alluvial
821	XXI	3189	50	426.6	1.5	425.1	13.7	412.9	12.2	16.0	Granite	4.5	13.7	9.2	26.0	5.3	Alluvial						
822	XXI	2421	48	426.5	3.0	423.5	12.2	414.3	9.2	22.4	Granite	3.0	7.0	4.0	21.5	4.2	Alluvial	4.0	4.5	0.6	57.4	12.6	Alluvial
823	XXI	3190	52	426.2	2.0	424.2	12.0	414.2	10.0	15.0	Granite	2.0	12.0	10.0	23.0	5.0	Alluvial						
824	XXI	1849	50	425.9	4.0	421.9	12.0	413.9	8.0	15.8	Granite	4.0	12.0	8.0	11.9	2.5	Alluvial						
825	XXI	3191	52	425.4	4.3	421.1	11.8	413.6	7.5	14.3	Granite	2.2	11.8	9.6	18.5	3.7	Alluvial						
826	XXI	4062	25	425.3	3.8	421.5	8.4	416.9	4.6	10.7	Granite	3.8	8.0	4.2	36.5	7.5	Alluvial						
827	XXI	2422	20	425.2	3.5	421.7	10.0	415.2	6.5	18.0	Granite	3.9	10.0	6.1	27.7	5.6	Alluvial						
828	XXI	4061	23	425.1	3.5	421.6	6.9	418.2	3.4	9.5	Granite	3.5	6.9	3.4	23.0	4.7	Alluvial						
829	XXI	3192	26	424.7	3.9	420.8	9.8	414.9	5.9	16.0	Granite	3.9	9.8	5.9	28.9	5.1	Alluvial	8.0	9.8	1.8	52.8	8.7	Alluvial
830	XXI	4060	26	424.5	3.3	421.2	6.4	418.1	3.1	9.9	Granite	3.3	6.4	3.1	34.9	6.3	Alluvial						
831	XXI	1848	24	424.3	3.5	420.8	7.0	417.3	3.5	15.2	Granite	3.5	10.0	6.5	23.8	2.7	Alluvial						
832	XXI	4059	26	424.1	4.3	419.8	5.9	418.2	1.6	10.0	Granite	4.3	5.9	1.6	41.9	7.8	Alluvial						
833	XXI	3193	22	423.9	2.0	421.9	6.3	417.6	4.3	16.6	Granite	2.0	6.8	4.8	18.6	3.5	Alluvial						
834	XXI	4058	26	424.1	4.2	419.9	7.3	416.8	3.1	10.0	Granite	4.2	7.3	3.1	39.3	6.5	Alluvial						
835	XXI	2423	26	424.2	3.7	420.5	6.7	417.5	3.0	14.2	Granite	2.7	6.7	4.0	25.0	5.0	Alluvial						
836	XXI	4057	38	424.0	4.0	420.0	7.5	416.5	3.5	13.0	Granite	4.0	7.5	3.5	31.9	5.3	Alluvial						
837	XXI	3407	34	423.7	4.0	419.7	8.0	415.7	4.0	11.0	Granite	5.1	8.0	2.9	27.9	5.3	Alluvial						
838	XXI	1847	30	423.4	3.0	420.4	8.5	414.9	5.5	16.5	Granite	3.0	8.5	5.5	25.1	4.2	Alluvial						
839	XXI	2424	90	423.2	3.7	419.5	6.8	416.4	3.1	16.6	Granite												
840	XXI	4167	104	422.6	3.5	419.1	3.5	419.1		17.0	Granite												
841	XXI	1846	100	423.7	4.5	419.2	4.5	419.2		16.0	Granite												
842	XXI	1845	380	423.6	5.0	418.6	5.0	418.6		6.5	Granite	1.0	5.0	4.0	11.1	1.0	Alluvial						
843	XXI	1844	420	422.4	7.8	414.6	7.8	414.6		10.0	Syenite												
844	XXI	1843	400	421.4	8.7	412.7	8.7	412.7		16.2	Syenite												
845	XIX-A	4049		424.4	4.0	420.4	12.8	411.6	8.8	15.0	Granite	4.0	12.9	8.9	35.5	7.2	Alluvial						
846	XIX-A	4040	50	424.4	3.7	420.7	10.0	414.4	6.3	12.0	Granite	3.8	10.8	7.0	13.0	2.5	Alluvial						
847	XIX-A	4039	52	424.7	3.5	421.2	10.0	414.7	6.5	13.5	Granite	3.5	11.0	7.5	25.3	4.5	Alluvial						
848	XIX-A	4038	49	424.2	4.0	420.2	10.8	413.4	6.8	13.4	Granite	4.0	11.1	7.1	27.5	5.7	Alluvial						
849	XIX-A	4037	51	423.9	3.2	420.7	11.5	412.4	8.3	12.5	Granite	3.5	11.8	8.3	27.1	5.7	Alluvial						
850	XIX-A	4036	49	423.6	2.5	421.1	8.5	415.1	6.0	10.2	Granite	2.7	8.5	5.8	20.3	4.3	Alluvial						
851	XIX-A	4035	50	422.8	4.0	418.8	8.0	414.8	4.0	10.5	Granite	4.0	8.2	4.2	30.0	6.5	Alluvial						
852	XX-A	4056		425.1	3.8	421.3	7.5	417.6	3.7	10.8	Granite	3.8	8.1	4.3	26.4	5.9	Alluvial						
853	XX-A	4055	49	424.7	3.9	420.8	5.2	419.5	1.3	8.0	Granite	4.0	5.0	1.0	41.8	8.9	Alluvial						
854	XX-A	4054	49	424.3	3.3	421.0	6.3	418.0	3.0	8.7	Granite	3.1	6.0	2.9	38.9	6.9	Alluvial						
855	XX-A	4053	49	423.8	3.2	420.6	6.6	417.2	3.4	10.0	Granite	3.0	7.5	4.5	48.1	9.2	Alluvial						
856	XX-A	4052	50	423.8	3.5	420.3	7.8	416.0	4.3	10.9	Granite	3.4	7.8	4.4	31.0	5.8	Alluvial						
857	XX-A	4051	49	423.4	3.0	420.4	8.0	415.4	5.0	10.5	Granite	3.0	8.0	5.0	38.5	7.0	Alluvial						
858	XX-A	4050	53	423.3	3.0	420.3	8.1	415.2	5.1	11.2	Granite	3.3	8.2	4.9	36.6	6.8	Alluvial						
859	XX	1778		445.0	7.0	438.0	10.3	434.7	3.3	14.7	Granite												
860	XX	3195	200	443.2	7.2	436.0	7.2	436.0		17.3	Granite												
861	XX	3196	100	442.0	7.7	434.3	7.7	434.3		17.0	Granite												
862	XX	3197	99	440.8	7.3	433.5	8.9	431.9	1.6	27.8	Granite												
863	XX	3198	100	439.2	6.9	432.3	6.9	432.3		17.5	Granite	6.9	12.2	5.3	11.1	4.0	Eluvial						
864	XX	3199	99	437.9	6.0	431.9	6.0	431.9		16.5	Granite	8.4	12.0	3.6	9.3	1.0	Eluvial						
865	XX	3200	53	437.4	6.8	430.6	6.8	430.6		13.0	Granite	8.7	12.5	3.8	15.6	4.0	Eluvial						
866	XX	3201	95	436.4	7.0	429.4	9.8	426.6	2.8	15.8	Granite	7.0	9.8	2.8	28.7	6.6	Alluvial						
867	XX	3202	51	435.8	7.0	428.8	11.0	424.8	4.0	13.8	Granite	7.0	11.0	4.0	45.4	8.7	Alluvial	8.9	11.0	2.1	70.7	12.3	Alluvial
868	XX	3203	50	435.2	6.9	428.3	10.9	424.3	4.0	14.5	Granite	6.9	10.9	4.0	28.3	7.9	Alluvial						
869	XX	3204	48	434.4	6.0	428.4	11.7	422.7	5.7	16.0	Granite	6.0	11.7	5.7	37.7	10.2	Alluvial						
870	XX	3205	52	433.7	8.3	425.4	9.5	424.2	1.2	17.0	Granite	8.3	9.5	1.2	16.9	4.0	Alluvial						
871	XX	3206	50	433.0	7.0	426.0	10.3	422.7	3.3	15.0	Granite	8.7	10.3	1.6	44.1	9.8	Alluvial						
872	XX	3207	49	432.3	6.8	425.5	11.2	421.1	4.4	13.5	Granite	6.8	11.2	4.4	35.0	7.7	Alluvial	7.8	9.8	2.1	51.2	10.5	Alluvial
873	XX	3208	50	431.2	6.7	424.5	13.0	418.2	6.3	14.5	Granite	6.7	13.0	6.3	34.4	7.0	Alluvial						
874	XX	3209	50	430.1	6.4	423.7	12.7	417.4	6.3	13.7	Granite	6.4	12.7	6.3	33.3	6.9	Alluvial						
875	XX	3210	49	429.2	5.0	424.2	12.7	416.5	7.7	13.7	Granite	5.0	12.7	7.7	32.9	5.4	Alluvial						
876	XX	3211	50	428.3	4.5	423.8	16.0	412.3	11.5	18.0	Granite	1.5	13.0	11.5	38.5	7.0	Alluvial						
877	XX	3212	50	427.8	5.5	422.3	17.5	410.3	12.0	19.0	Granite	5.7	17.5	11.8	38.2	6.8	Alluvial	12.6	17.3	4.8	56.1	2.2	Alluvial
878	XX	3784	51	427.7	4.0	423.7	16.0	411.7	12.0	22.0	Granite	6.0	18.0	12.0	31.3	4.9	Alluvial						
879	XX	3213	50	427.8	4.5	423.3	18.0	409.8	13.5	21.0	Granite	4.5	18.0	13.5	23.0	4.1	Alluvial						
880	XX	3214	50	427.8	4.8	423.0	17.7	410.1	12.9	20.3	Granite	4.8	17.7	12.9	43.1	8.3	Alluvial	14.8	17.6	2.8	56.0	11.2	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
881	XX	3215	49	427.4	4.5	422.9	15.0	412.4	10.5	21.0	Granite	4.5	15.0	10.5	37.4	7.4	Alluvial	8.5	9.5	1.0	55.4	8.8	Alluvial
882	XX	3216	50	427.1	3.8	423.3	14.0	413.1	10.2	20.3	Granite	4.0	14.0	10.0	28.5	5.4	Alluvial						
883	XX	3217	50	426.8	3.7	423.1	14.0	412.8	10.3	17.0	Granite	3.7	14.0	10.3	32.7	6.3	Alluvial						
884	XX	3218	49	426.4	5.0	421.4	13.8	412.6	8.8	15.8	Granite	5.0	13.8	8.8	29.1	5.3	Alluvial						
885	XX	3219A	48	426.1	3.0	423.1	12.0	414.1	9.0	14.0	Granite	3.5	12.0	8.5	16.1	3.4	Alluvial						
886	XX	3219	49	425.5	3.5	422.0	12.0	413.5	8.5	18.5	Granite	3.5	12.0	8.5	24.3	4.2	Alluvial						
887	XX	4048	28	425.4	3.0	422.4	11.6	413.8	8.6	14.0	Granite	3.5	11.6	8.1	13.0	2.5	Alluvial						
888	XX	3220	24	425.3	5.0	420.3	11.6	413.7	6.6	13.7	Granite	5.0	11.6	6.6	15.1	2.9	Alluvial						
889	XX	4047	24	425.2	4.0	421.2	10.9	414.3	6.9	13.0	Granite	4.0	10.9	6.9	15.8	3.3	Alluvial						
890	XX	3221	24	425.0	4.5	420.5	8.2	416.8	3.7	16.2	Granite	4.5	8.2	3.7	22.8	5.3	Alluvial						
891	XX	4046	28	424.8	3.7	421.1	7.5	417.3	3.8	9.5	Granite	3.7	7.2	3.5	36.9	8.2	Alluvial						
892	XX	3222	23	424.7	4.0	420.7	7.6	417.1	3.6	17.0	Granite	4.0	7.6	3.6	21.7	4.4	Alluvial						
893	XX	4045	25	424.4	3.9	420.5	8.8	415.6	4.9	10.1	Granite	3.9	7.3	3.4	27.8	4.9	Alluvial						
894	XX	3223	22	424.2	3.5	420.7	10.0	414.2	6.5	16.0	Granite	3.5	10.0	6.5	21.3	5.0	Alluvial						
895	XX	4044	25	423.9	3.4	420.5	10.5	413.4	7.1	12.0	Granite	3.4	9.7	6.3	21.9	4.4	Alluvial						
896	XX	3224	25	423.7	3.6	420.1	9.6	414.1	6.0	12.6	Granite	3.6	9.6	6.0	18.4	4.2	Alluvial						
897	XX	4043	24	423.8	3.8	420.0	10.2	413.6	6.4	11.6	Granite	3.8	10.2	6.4	33.5	6.9	Alluvial						
898	XX	3225	25	423.7	4.0	419.7	10.2	413.5	6.2	23.0	Granite	4.0	10.2	6.2	26.4	5.9	Alluvial						
899	XX	4042	25	423.6	3.8	419.8	11.0	412.6	7.2	12.0	Granite	3.8	10.0	6.2	25.7	5.6	Alluvial						
900	XX	3226	30	423.3	4.0	419.3	11.8	411.5	7.8	17.5	Granite	4.0	10.5	6.5	15.0	4.2	Alluvial						
901	XX	4041	18	423.0	3.8	419.2	11.1	411.9	7.3	13.5	Granite	3.6	9.4	5.8	25.0	5.1	Alluvial						
902	XX	3227	26	422.7	3.4	419.3	6.5	416.2	3.1	19.5	Granite	3.4	8.0	4.6	16.0	3.7	Alluvial						
903	XX	3228	98	422.4	3.0	419.4	3.0	419.4		16.2	Granite												
904	XX	3229	99	422.5	3.4	419.1	3.4	419.1		15.5	Granite												
905	XX	3230	100	421.6	3.4	418.2	3.4	418.2		17.0	Granite												
906	XX	226	180	422.5	3.4	419.1	3.4	419.1		15.2	Granite												
907	XX	418	398	422.0	7.4	414.6	7.4	414.6		11.5	Granite	1.5	4.5	3.0	9.6	1.4	Alluvial						
908	XX	419	402	421.2	8.4	412.8	8.4	412.8		9.4	Granite												
909	XX	420	397	420.3	9.5	410.8	9.5	410.8		10.0	Granite	3.0	6.0	3.0	12.9	2.6	Alluvial						
910	XX	421	409	420.0	8.8	411.2	8.8	411.2		9.0	Granite	4.6	8.0	3.5	13.2	1.6	Alluvial						
911	XIX	2135		451.9	9.0	442.9	9.0	442.9		13.0	Granite												
912	XIX	2134	198	448.4	7.0	441.4	7.0	441.4		14.7	Granite												
913	XIX	2112	200	445.4	2.8	442.6	2.8	442.6		21.0	Granite												
914	XIX	2113	198	443.2	3.6	439.6	3.6	439.6		22.3	Granite												
915	XIX	2114	205	442.3	4.2	438.1	4.2	438.1		22.1	Granite												
916	XIX	3119	98	441.1	6.3	434.8	9.5	431.6	3.2	19.0	Granite												
917	XIX	3120	50	440.5	1.5	439.0	8.6	431.9	7.1	22.4	Granite	1.5	3.5	2.0	58.9	16.1	Alluvial	1.5	3.5	2.0	58.9	16.2	Alluvial
918	XIX	2115	46	440.0	5.0	435.0	13.4	426.6	8.4	17.3	Granite	8.7	13.4	4.7	11.0	3.6	Alluvial						
919	XIX	3121	54	439.5	4.0	435.5	4.0	435.5		18.5	Granite	6.0	12.9	6.9	9.3	3.1	Alluvial						
920	XIX	2116	52	438.9	4.0	434.9	14.0	424.9	10.0	18.1	Granite	10.0	12.0	2.0	8.4	2.3	Alluvial						
921	XIX	3122	48	438.5	4.5	434.0	15.2	423.3	10.7	18.2	Granite	4.5	15.2	10.7	9.4	2.5	Alluvial						
922	XIX	2117	50	437.7	5.2	432.5	13.5	424.2	8.3	16.8	Granite	5.2	13.5	8.3	20.3	4.5	Alluvial						
923	XIX	3123	50	437.1	5.0	432.1	15.0	422.1	10.0	22.3	Granite	5.0	15.0	10.0	100.7	3.5	Alluvial	5.2	7.1	1.9	445.5	4.4	Alluvial
924	XIX	2118	50	436.5	4.2	432.3	14.0	422.5	9.8	16.2	Granite	4.2	14.0	9.8	23.0	5.6	Alluvial	11.0	12.9	1.9	54.2	12.5	Alluvial
925	XIX	3124	46	436.3	2.0	434.3	14.4	421.9	12.4	36.0	Granite	2.0	14.4	12.4	26.9	6.3	Alluvial	12.9	14.4	1.5	70.3	18.9	Alluvial
926	XIX	3786	47	435.7	4.7	431.0	15.0	420.7	10.3	35.0	Granite	7.8	15.0	7.2	34.2	7.9	Alluvial						
927	XIX	3125	53	435.2	5.5	429.7	14.7	420.5	9.2	36.7	Granite	7.0	14.7	7.7	17.6	3.7	Alluvial						
928	XIX	2120	48	434.6	5.8	428.8	15.0	419.6	9.2	35.5	Granite	11.0	16.6	5.6	22.0	4.5	Eluvial+Alluvial	12.0	13.2	1.2	54.8	9.6	Alluvial
929	XIX	3126	52	433.8	5.0	428.8	17.1	416.7	12.1	25.0	Granite	12.5	20.0	7.5	25.5	4.9	Eluvial+Alluvial						
930	XIX	2121	44	433.0	5.3	427.7	19.2	413.8	13.9	25.0	Granite	11.0	19.2	8.2	42.0	7.5	Alluvial	11.4	13.0	1.6	64.0	11.8	Alluvial
931	XIX	3127	54	431.9	5.9	426.0	19.5	412.4	13.6	22.0	Granite	10.0	19.5	9.5	38.1	7.2	Alluvial						
932	XIX	2122	50	431.4	5.0	426.4	16.7	414.7	11.7	34.0	Granite	9.0	18.3	9.3	34.2	6.2	Eluvial+Alluvial	10.1	11.6	1.5	53.9	9.2	Alluvial
933	XIX	3128	50	430.6	7.1	423.5	17.9	412.7	10.8	20.6	Granite	9.0	17.9	8.9	35.6	6.5	Alluvial	16.2	18.1	1.9	54.2	8.9	Alluvial
934	XIX	2123	50	429.7	6.9	422.8	17.0	412.7	10.1	34.0	Granite	5.5	20.0	14.5	31.9	6.3	Eluvial+Alluvial	8.9	11.1	2.2	52.8	9.2	Alluvial
935	XIX	3129	48	428.4	7.3	421.1	14.3	414.1	7.0	24.5	Granite	7.3	14.3	7.0	41.3	6.0	Alluvial	9.4	11.2	1.8	62.0	12.2	Alluvial
936	XIX	2124	50	427.6	5.0	422.6	15.0	412.6	10.0	26.6	Granite	5.0	16.0	11.0	35.9	7.5	Eluvial+Alluvial						
937	XIX	3130	48	426.8	2.0	424.8	16.2	410.6	14.2	16.5	Granite	2.0	16.2	14.2	26.1	4.8	Alluvial						
938	XIX	2125	50	426.4	4.0	422.4	15.0	411.4	11.0	21.5	Granite	2.0	15.0	13.0	31.9	5.7	Alluvial	14.0	15.0	1.0	86.7	17.0	Alluvial
939	XIX	3131	48	426.2	5.5	420.7	14.4	411.8	8.9	21.3	Granite	3.5	14.4	10.9	35.3	6.7	Alluvial	9.0	10.8	1.8	78.5	16.6	Alluvial
940	XIX	2126	44	426.0	5.0	421.0	13.5	412.5	8.5	22.5	Granite	5.0	13.5	8.5	24.6	4.9	Alluvial						
941	XIX	3132	52	425.8	4.0	421.8	15.3	410.5	11.3	27.0	Granite	4.0	14.2	10.2	32.9	6.0	Alluvial	8.7	10.6	1.9	63.7	12.2	Alluvial
942	XIX	2127	48	425.6	4.0	421.6	12.1	413.5	8.1	19.3	Granite	6.5	12.1	5.6	35.4	6.6	Alluvial	10.3	12.1	1.8	52.9	8.9	Alluvial
943	XIX	3133	46	425.3	4.4	420.9	14.0	411.3	9.6	23.0	Granite	6.0	14.0	8.0	29.0	6.4	Alluvial						
944	XIX	2128	54	424.8	4.4	420.4	14.3	410.5	9.9	22.8	Granite	5.8	11.8	6.0	29.7	5.3	Alluvial						
945	XIX	4033	26	424.6	4.1	420.5	11.9	412.7	7.8	11.9	Granite	4.1	11.5	7.4	32.5	6.2	Alluvial						
946	XIX	3134	24	424.4	4.7	419.7	11.5	412.9	6.8	23.0	Granite	4.7	11.5	6.8	29.5	5.2	Alluvial						
947	XIX	4032	26	424.2	4.0	420.2	11.2	413.0	7.2	13.5	Granite	4.0	12.1	8.1	24.4	3.5	Alluvial						
948	XIX	2129	24	424.1	4.0	420.1	11.0	413.1	7.0	24.0	Granite	4.0	11.0	7.0	22.9	4.5	Alluvial						
949	XIX	4031	25	423.9	3.8	420.1	11.0	412.9	7.2	13.3	Granite	3.8	11.0	7.2	15.6	3.0	Alluvial						
950	XIX	3135	24	423.9	3.9	420.0	10.8	413.1	6.9	17.0	Granite	5.5	12.0	6.5	22.7	4.8	Alluvial						
951	XIX	4030	24	423.8	4.1	419.7	9.2	414.6	5.1	11.6	Granite	4.1	9.2	5.1	19.6	3.9	Alluvial						
952	XIX	2130	24	423.6	3.1	420.5	8.8	414.8	5.7	20.0	Granite	5.0	8.5	3.5	25.5	5.8	Alluvial						
953	XIX	4029	24	423.2	3.5	419.7	8.3	414.9	4.8	10.5	Granite	3.3	8.3	5.0	20.2	3.8	Alluvial						
954	XIX	3136	26	423.2	3.9	419.3	8.5	414.7	4.6	19.5	Granite	1.0	8.5	7.5	23.7	4.3	Alluvial						
955	XIX	4034	22	422.9	4.2	418.7	7.7	415.2	3.5	7.7	Granite	4.2	7.7	3.5	24.7	5.6	Alluvial						
956	XIX	2131	27	422.6	4.2	418.4	7.4	415.2	3.2	7.4	Granite	4.2	7.4	3.2	25.9	6.4	Alluvial						
957	XIX	3137	50	422.3	4.5	417.8	4.5	417.8		21.0	Granite	3.9	4.3	0.4	11.7	2.6	Alluvial						
958	XIX	3138	48	422.1	3.0	419.1	3.0	419.1		17.0	Granite												
959	XIX	3139	100	421.3	4.0	417.3	4.0	417.3		24.3	Granite												
960	XVIII	1731		442.3	2.1	440.2	2.1	440.2		10.0	Syenite												
961	XVIII	1730	400	444.2	2.0	442.2	2.0	442.2		4.3	Syenite												
962	XVIII	1729	408	445.8	2.0	443.8	2.0	443.8		6.0	Syenite												
963	XVIII	1728	396	454.3	3.0	451.3	3.0	451.3		6.0	Syenite												
964	XVIII	1727	396	460.3	2.0	458.3	2.0	458.3		3.0	Syenite												
965	XVIII	1726	200	458.7	4.6	454.1	4.6	454.1		10.2	Syenite	4.6	10.0	5.4	11.1	2.3	Eluvial						
966	XVIII	1725	196	454.9	1.0	453.9	1.0	453.9		6.0	Granite												
967	XVIII	1724	398	452.3	3.6	448.7	3.6	448.7		10.4	Granite												
968	XVIII	1723	204	449.0	4.7	444.3	4.7	444.3		5.0	Granite												
969	XVIII	1722	198	445.7	4.5	441.2	4.5	441.2		23.2	Granite	15.0	17.0	2.0	21.2	3.7	Eluvial						
970	XVIII	1721	404	441.3	3.0	438.3	3.0	438.3		5.0	Granite												
971	XVIII	3101	98	440.7	4.5	436.2	4.5	436.2		8.1	Granite												
972	XVIII	1720	96	439.6	5.0	434.6	5.0	434.6		5.6	Granite												
973	XVIII	3102	102	438.3	4.5	433.8	4.5	433.8		12.4	Granite												
974	XVIII	1719	100	437.0	7.6	429.4	7.6	429.4		13.9	Granite	10.0	13.9	3.9	20.9	4.6	Alluvial						
975	XVIII	1751	98	436.0	8.5	427.5	14.0	422.0	5.5	23.2	Granite	8.4	14.0	5.6	26.0	3.2	Alluvial						
976	XVIII	4162	98	435.1	10.7	424.4	14.5	420.6	3.8	15.5	Granite	12.6	14.5	1.9	30.8	8.8	Alluvial						
977	XVIII	3103	50	434.6	9.0	425.6	12.8	421.8	3.8	32.2	Granite	10.8	12.8	2.0	26.4	7.4	Alluvial						
978	XVIII	1752	50	434.2	10.5	423.7	14.0	420.2	3.5	26.0	Granite	12.2	13.0	0.8	11.4	3.1	Alluvial						
979	XVIII	3231	50	433.7	9.6	424.1	16.3	417.4	6.7	19.0	Granite	10.0	16.3	6.3	20.8	4.3	Alluvial						
980	XVIII	1717	54	433.0	9.2	423.8	17.0	416.0	7.8	25.5	Granite	10.0	17.0	7.0	17.8	4.2	Alluvial						
981	XVIII	3104	52	432.5	7.7	424.8	15.5	417.0	7.8	26.3	Granite	10.7	15.5	4.8	53.7	9.8	Alluvial	11.7	15.5	3.8	58.0	10.4	Alluvial
982	XVIII	1753	46	431.8	9.0	422.8	16.7	415.1	7.7	18.7	Granite	9.0	16.7	7.7	28.1	4.6	Alluvial						
983	XVIII	3105	55	430.9	7.8	423.1	16.9	414.0	9.1	17.5	Granite	7.8	16.9	9.1	39.0	8.0	Alluvial	12.1	14.1	2.0	51.2	10.8	Alluvial
984	XVIII	1716	50	430.6	6.0	424.6	16.4	414.2	10.4	19.5	Granite	7.5	16.4	8.9	37.8	6.7	Alluvial	9.2	10.1	0.9	54.6	10.4	Alluvial
985	XVIII	3106	49	430.3	6.3	424.0	17.5	412.8	11.2	17.5	Granite	6.3	17.5	11.2	33.6	6.7	Alluvial	9.0	10.9	1.9	53.6	12.1	Alluvial
986	XVIII	1755	56	429.7	5.5	424.2	16.3	413.4	10.8	16.3	Granite	5.3	16.3	11.0	35.0	6.2	Alluvial	12.8	16.1	3.3	58.9	10.0	Alluvial
987	XVIII	3107	52	428.8	6.5	422.3	18.9	409.9	12.4	22.0	Granite	6.5	18.9	12.4	33.7	6.2	Alluvial	14.0	15.2	1.2	85.9	13.1	Alluvial
988	XVIII	1715	49	428.0	6.9	421.1	17.0	411.0	10.1	22.0	Granite	8.9	17.0	8.1	28.8	5.5	Alluvial						
989	XVIII	3108	50	427.3	4.5	422.8	16.5	410.8	12.0	24.2	Granite	4.5	16.5	12.0	29.5	5.2	Alluvial						
990	XVIII	1756	48	426.3	5.0	421.3	14.6	411.7	9.6	14.6	Granite	5.0	14.5	9.5	24.8	4.6	Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
991	XVIII	3109	56	425.4	5.6	419.8	15.7	409.7	10.1	29.0	Granite	5.6	15.7	10.1	31.8	6.0	Alluvial	12.4	15.2	2.8	52.3	9.2	Alluvial
992	XVIII	1714	48	424.6	4.2	420.4	13.9	410.7	9.7	26.3	Granite	4.2	13.9	9.7	18.3	3.4	Alluvial						
993	XVIII	3110	52	424.3	4.0	420.3	15.2	409.1	11.2	22.0	Granite	4.0	13.0	9.0	35.5	6.7	Alluvial						
994	XVIII	1757	52	424.2	3.0	421.2	15.3	408.9	12.3	15.5	Granite	3.0	15.3	12.3	20.1	3.8	Alluvial						
995	XVIII	3111	50	423.8	4.5	419.3	15.0	408.8	10.5	24.0	Granite	4.5	13.2	8.7	23.3	4.0	Alluvial						
996	XVIII	1713	52	423.6	6.9	416.7	14.9	408.7	8.0	22.2	Granite	7.0	13.0	6.0	23.4	4.7	Alluvial						
997	XVIII	3112	48	423.3	7.0	416.3	14.5	408.8	7.5	20.0	Granite	7.5	14.5	7.0	30.8	6.0	Alluvial						
998	XVIII	3118	48	423.1	3.2	419.9	8.1	415.0	4.9	20.5	Granite	3.2	8.1	4.9	16.4	3.3	Alluvial						
999	XVIII	3113	48	422.9	6.5	416.4	12.0	410.9	5.5	32.0	Granite	6.5	12.0	5.5	28.5	4.3	Alluvial						
1000	XVIII	1712	50	422.7	3.4	419.3	3.4	419.3		25.5	Granite												
1001	XVIII	3114	50	422.6	5.0	417.6	5.0	417.6		33.0	Granite												
1002	XVIII	3115	48	422.7	5.0	417.7	5.0	417.7		24.0	Granite												
1003	XVIII	3116	58	421.0	8.4	412.6	8.4	412.6		23.1	Granite												
1004	XVIII	1712A	54	420.8	4.2	416.6	7.2	413.6	3.0	19.3	Granite	4.2	7.0	2.8	13.7	3.1	Alluvial						
1005	XVIII	3117	96	420.3	5.4	414.9	5.4	414.9		20.0	Granite												
1006	XVII	4161		438.3	8.9	429.4	8.9	429.4		9.0	Granite												
1007	XVII	4160	102	437.3	9.0	428.3	9.0	428.3		10.0	Granite												
1008	XVII	3896	97	436.3	7.2	429.1	13.5	422.8	6.3	20.0	Granite	9.0	15.8	6.8	22.2	4.0	Alluvial						
1009	XVII	3903	98	435.1	5.0	430.1	16.1	419.0	11.1	20.1	Granite	16.1	18.1	2.0	35.4	6.1	Alluvial						
1010	XVII	3902	93	433.6	2.8	430.8	16.2	417.4	13.4	23.5	Granite	9.5	16.2	6.7	49.2	8.7	Alluvial	12.1	16.1	4.1	69.6	11.8	Alluvial
1011	XVII	3140	105	432.3	5.0	427.3	11.5	420.8	6.5	21.0	Granite	7.0	11.5	4.5	13.7	3.4	Alluvial						
1012	XVII	3901	58	431.9	4.5	427.4	13.0	418.9	8.5	16.0	Granite	4.5	15.5	11.0	34.1	6.9	Alluvial						
1013	XVII	3141	39	431.8	5.5	426.3	10.3	421.5	4.8	16.5	Granite	9.0	10.3	1.3	57.6	11.0	Alluvial	8.8	10.3	1.5	57.6	11.0	Alluvial
1014	XVII	3142	53	431.5	6.0	425.5	9.8	421.7	3.8	13.5	Granite	8.8	9.8	1.0	47.5	8.4	Alluvial	8.5	9.5	1.0	60.2	11.0	Alluvial
1015	XVII	3143	51	431.0	7.3	423.7	14.3	416.7	7.0	21.1	Granite	8.4	14.3	5.9	28.8	6.5	Alluvial	13.4	14.1	0.7	51.1	11.3	Alluvial
1016	XVII	3144	47	430.7	6.0	424.7	14.2	416.5	8.2	19.4	Granite	7.5	14.2	6.7	32.6	6.9	Alluvial	12.1	14.0	1.9	62.0	13.2	Alluvial
1017	XVII	3145	52	430.3	5.3	425.0	14.8	415.5	9.5	19.5	Granite	7.0	14.8	7.8	30.3	6.0	Alluvial						
1018	XVII	3146	50	429.4	5.4	424.0	17.2	412.2	11.8	21.7	Granite	7.0	17.2	10.2	25.7	5.3	Alluvial						
1019	XVII	3147	50	428.4	3.4	425.0	19.0	409.4	15.6	21.3	Granite	6.0	21.0	15.0	30.0	5.8	Alluvial						
1020	XVII	3148	50	428.3	5.2	423.1	19.0	409.3	13.8	23.5	Granite	5.2	19.0	13.8	31.4	6.7	Alluvial						
1021	XVII	3149	50	427.8	5.4	422.4	19.0	408.8	13.6	26.2	Granite	5.4	13.6	13.6	22.8	4.7	Alluvial						
1022	XVII	3150	50	427.6	6.4	421.2	17.7	409.9	11.3	27.5	Granite	6.4	17.7	11.3	26.3	5.7	Alluvial						
1023	XVII	3151	52	427.0	5.0	422.0	16.0	411.0	11.0	20.6	Granite	5.0	16.0	11.0	33.0	6.8	Alluvial						
1024	XVII	3152	50	428.3	3.7	424.6	14.0	414.3	10.3	18.8	Granite	3.5	14.0	10.5	24.2	5.2	Alluvial						
1025	XVII	3153	50	425.8	5.0	420.8	16.1	409.7	11.1	19.0	Granite	6.0	16.1	10.1	29.1	6.0	Alluvial	10.9	12.9	2.0	51.5	11.1	Alluvial
1026	XVII	3154	52	425.3	4.7	420.6	15.7	409.6	11.0	17.7	Granite	4.7	15.7	11.0	18.6	3.9	Alluvial						
1027	XVII	3155	50	424.8	6.9	417.9	16.7	408.1	9.8	19.0	Granite	11.0	16.7	5.7	16.0	6.1	Alluvial						
1028	XVII	3156	50	424.4	6.0	418.4	16.4	408.0	10.4	19.2	Granite	6.0	16.4	10.4	35.6	7.6	Alluvial	13.7	16.4	2.7	61.4	13.2	Alluvial
1029	XVII	3157	50	423.9	4.6	419.3	17.4	406.5	12.8	17.1	Granite	9.0	15.0	6.0	22.3	4.7	Alluvial						
1030	XVII	3158	50	423.3	6.0	417.3	14.3	409.0	8.3	20.0	Granite	5.6	14.3	8.7	19.5	4.4	Alluvial						
1031	XVII	3159	48	422.3	6.0	416.3	12.1	410.2	6.1	15.3	Granite	6.0	12.1	6.1	32.3	6.4	Alluvial						
1032	XVII	3160	50	421.3	6.1	415.2	10.5	410.8	4.4	12.5	Granite	6.1	8.0	1.9	15.1	3.2	Alluvial						
1033	XVII	3161	50	421.6	4.2	417.4	5.7	415.9	1.5	16.3	Granite	4.2	5.7	1.5	26.2	5.4	Alluvial						
1034	XVII	3162	50	420.8	3.9	416.9	5.3	415.5	1.4	17.8	Granite	3.9	5.3	1.4	29.5	5.5	Alluvial						
1035	XVII	3163	50	421.1	3.9	417.2	3.9	417.2		17.6	Granite												
1036	XVII	3164	50	421.1	4.7	416.4	4.7	416.4		17.4	Granite												
1037	XVII	3165	50	420.8	6.0	414.8	6.0	414.8		19.2	Granite	4.0	5.9	1.9	16.0	1.9	Alluvial						
1038	XVII	3166	50	420.5	5.5	415.0	5.5	415.0		19.7	Granite	3.0	5.2	2.2	43.9	7.1	Alluvial						
1039	XVII	3167	50	420.1	4.2	415.9	4.2	415.9		31.0	Granite	2.8	4.2	1.4	12.6	1.8	Alluvial						
1040	XVII	3168	48	419.7	5.0	414.7	5.0	414.7		20.0	Granite												
1041	XVII	3169	50	419.3	5.4	413.9	5.4	413.9		30.3	Granite	10.0	12.0	2.0	62.0	13.6	Eluvial	10.1	12.0	2.0	62.0	13.6	Eluvial
1042	XVII	3170	95	418.8	4.0	414.8	4.0	414.8		23.5	Granite												
1043	XVI	1708		431.8	1.8	430.0	1.8	430.0		4.0	Hornfels												
1044	XVI	1707	394	436.6	2.3	434.3	2.3	434.3		4.5	Hornfels												
1045	XVI	1706	398	440.0	1.0	439.0	1.0	439.0		8.0	Hornfels												
1046	XVI	1705	396	442.8	2.6	440.2	2.6	440.2		7.5	Syenite												
1047	XVI	1704	400	447.9	1.8	446.1	1.8	446.1		7.0	Syenite	1.3	3.0	1.7	7.2	2.3	Eluvial						
1048	XVI	1703	200	451.0	2.1	448.9	2.1	448.9		14.0	Syenite	2.0	13.6	11.6	26.2	0.8	Eluvial						
1049	XVI	1709	198	454.5	1.8	452.7	1.8	452.7		2.5	Syenite												
1050	XVI	1702	200	456.1	2.8	453.3	2.8	453.3		3.0	Granite												
1051	XVI	1701	198	456.0	3.0	453.0	3.0	453.0		3.0	Granite												
1052	XVI	1700	378	454.2	7.5	446.7	7.5	446.7		8.2	Granite												
1053	XVI	1699		446.0	6.2	439.8	6.2	439.8		6.5	Granite												
1054	XVI	1698	358	441.0	3.0	438.0	3.0	438.0		3.2	Granite												
1055	XVI	2136	400	435.7	7.8	427.9	7.8	427.9		10.3	Granite												
1056	XVI	2428	198	432.9	8.3	424.6	8.3	424.6		9.4	Granite												
1057	XVI	2429	200	431.6	7.6	424.0	7.6	424.0		10.0	Granite												
1058	XVI	2137	98	430.8	2.0	428.8	6.2	424.6	4.2	14.7	Granite	5.0	6.2	1.2	35.8	7.4	Alluvial						
1059	XVI	2430	98	430.0	2.8	427.2	11.6	418.4	8.8	15.4	Granite	7.5	11.6	4.1	25.4	4.6	Alluvial						
1060	XVI	2431	100	429.6	3.0	426.6	15.4	414.2	12.4	16.0	Granite	5.0	15.4	10.4	41.8	8.5	Eluvial+Alluvial	7.8	9.9	2.2	98.6	20.3	Alluvial
1061	XVI	3408	48	429.1	3.3	425.8	16.3	412.8	13.0	17.0	Granite	8.6	16.3	7.7	36.3	8.2	Alluvial						
1062	XVI	2432	52	428.3	6.0	422.3	16.4	411.9	10.4	17.0	Granite	6.0	16.4	10.4	36.5	7.2	Alluvial	13.0	14.7	1.7	71.0	13.3	Alluvial
1063	XVI	3409	50	428.0	5.9	422.1	14.4	413.6	8.5	18.0	Granite	5.9	18.0	12.1	27.9	5.9	Eluvial+Alluvial	12.7	14.5	1.8	60.7	12.7	Alluvial
1064	XVI	2433	48	427.4	5.0	422.4	17.6	409.8	12.6	21.2	Granite	5.0	17.6	12.6	26.3	4.6	Alluvial						
1065	XVI	3410	48	426.6	5.0	421.6	15.6	411.0	10.6	20.4	Granite	5.0	18.4	13.4	32.6	6.7	Eluvial+Alluvial						
1066	XVI	2434	54	426.2	6.0	420.2	17.0	409.2	11.0	25.0	Granite	6.0	17.6	11.6	41.9	7.2	Alluvial	13.8	15.8	2.0	86.9	13.2	Alluvial
1067	XVI	3411	48	425.7	5.0	420.7	18.5	407.2	13.5	21.0	Granite	5.0	21.0	16.0	25.6	5.2	Eluvial+Alluvial						
1068	XVI	2435	52	425.4	5.0	420.4	18.2	407.2	13.2	34.3	Granite	5.0	18.7	13.7	31.8	6.5	Eluvial+Alluvial	10.1	11.3	1.2	67.8	8.3	Alluvial
1069	XVI	3412	48	425.1	4.9	420.2	17.6	407.5	12.7	22.5	Granite	4.9	22.5	17.6	25.9	5.1	Eluvial+Alluvial						
1070	XVI	2436	48	424.3	5.5	418.8	16.0	408.3	10.5	36.4	Granite	5.5	16.0	10.5	31.9	6.5	Alluvial	5.3	6.0	0.8	51.5	11.4	Alluvial
1071	XVI	3413	50	423.2	5.0	418.2	21.4	401.8	16.4	24.7	Granite	0.3	19.7	19.4	20.5	4.3	Alluvial						
1072	XVI	2437	46	422.9	5.5	417.4	14.0	408.9	8.5	15.5	Granite	7.0	14.0	7.0	45.7	9.4	Alluvial	8.8	10.8	2.0	84.0	16.8	Alluvial
1073	XVI	3414	48	422.8	5.3	417.5	18.5	404.3	13.2	25.0	Granite	5.3	15.6	10.3	16.3	3.7	Alluvial						
1074	XVI	2438	56	422.6	7.4	415.2	10.5	412.1	3.1	33.8	Granite	8.4	10.5	2.1	38.3	7.8	Alluvial						
1075	XVI	3415	50	422.1	5.8	416.3	10.0	412.1	4.2	21.5	Granite	7.0	10.0	3.0	35.0	7.4	Alluvial						
1076	XVI	2439	50	421.4	6.6	414.8	10.2	411.2	3.6	26.2	Granite	9.7	11.0	1.3	30.7	6.0	Alluvial	8.9	9.5	0.6	55.5	10.9	Alluvial
1077	XVI	3416	46	420.7	8.0	412.7	10.4	410.3	2.4	17.7	Granite	8.0	9.2	1.2	10.4	2.7	Alluvial						
1078	XVI	2440	50	420.1	3.1	417.0	4.5	415.6	1.4	30.1	Granite	3.7	4.2	0.5	33.7	7.8	Alluvial						
1079	XVI	3417	54	419.5	3.0	416.5	4.7	414.8	1.7	14.0	Granite	3.0	4.7	1.7	14.8	3.5	Alluvial						
1080	XVI	2441	46	419.3	2.8	416.5	3.0	416.3	0.2	27.0	Granite												
1081	XVI	3418	48	419.7	3.0	416.7	4.0	415.7	1.0	16.0	Granite												
1082	XVI	2442	50	419.7	4.4	415.3	7.7	412.0	3.3	24.0	Granite												
1083	XVI	3419	50	419.3	5.5	413.8	6.9	412.4	1.4	18.0	Granite	5.7	6.7	1.0	16.3	3.4	Alluvial						
1084	XVI	2443	42	419.0	8.6	410.4	8.6	410.4		30.0	Granite												
1085	XVI	3420	54	418.7	4.5	414.2	5.5	413.2	1.0	30.0	Granite												
1086	XVI	2444	46	418.3	4.8	413.5	7.0	411.3	2.2	28.8	Granite												
1087	XVI	1274	136	418.2	3.8	414.4	3.8	414.4		14.0	Granite												
1088	XIV	1697		428.5	4.0	424.5	4.0	424.5		10.0	Hornfels												
1089	XIV	1696	400	436.5	2.0	434.5	2.0	434.5		2.5	Syenite												
1090	XIV	1695	400	437.8	2.6	435.2	5.4	432.4	2.8	11.0	Syenite	2.5	11.0	8.5	26.6	4.4	Eluvial+Alluvial						
1091	XIV	1694	390	440.1	2.3	437.8	2.3	437.8		2.3	Syenite												
1092	XIV	1693	366	447.5	4.0	443.5	4.0	443.5		9.0	Syenite	1.0	9.0	8.0	25.0	2.8	Eluvial+Alluvial						
1093	XIV	1692	396	450.3	2.2	448.1	2.2	448.1		2.2	Syenite												
1094	XIV	1691	206	451.9	4.1	447.8	4.1	447.8		4.1	Syenite												
1095	XIV	1690	198	452.8	8.0	444.8	8.0	444.8		10.5	Syenite												
1096	XIV	1689	390	444.3	11.5	432.8	11.5	432.8		19.5	Granite	11.5	16.5	5.0	32.9	4.2	Eluvial						
1097	XIV	4221	400	437.3	9.0	428.3	9.0	428.3		16.8	Granite												
1098	XIV	3893	98	436.0	5.0	431.0	15.0	421.0	10.0	18.0	Granite	9.0	15.0	6.0	30.5	8.0	Alluvial						
1099	XIV	3906	100	434.6	4.8	429.8	16.3	418.3	11.5	17.3	Granite	8.3	16.3	8.0	27.2	6.4	Alluvial						
1100	XIV	3905	102	433.7	4.3	429.4	15.0	418.7	10.7	18.4	Granite	9.6	15.0	5.4	34.8	9.7	Alluvial	13.8	14.9	1.1	78.4	21.4	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1101	XIV	1687	100	432.3	4.5	427.8	15.9	416.4	11.4	25.0	Granite	10.0	15.9	5.9	33.4	7.4	Alluvial	14.2	16.0	1.8	80.8	17.6	
1102	XIV	2445	106	431.6	4.9	426.7	15.5	416.1	10.6	30.2	Granite	12.0	15.5	3.5	18.6	6.6	Alluvial						
1103	XIV	1686	98	430.8	4.5	426.3	16.0	414.8	11.5	25.0	Granite	10.0	16.0	6.0	22.1	5.0	Alluvial						
1104	XIV	2446	100	430.2	3.5	426.7	14.0	416.2	10.5	29.0	Granite	9.0	14.0	5.0	45.8	11.7	Alluvial	9.8	12.8	3.1	63.7	15.8	Alluvial
1105	XIV	1685	98	429.3	4.6	424.7	16.5	412.8	11.9	18.0	Granite	4.6	16.5	11.9	36.5	8.8	Alluvial						
1106	XIV	2447	98	428.2	7.2	421.0	16.8	411.4	9.6	20.0	Granite	9.2	16.8	7.6	34.6	9.4	Alluvial	13.0	14.8	1.8	58.0	16.9	Alluvial
1107	XIV	1684	90	426.9	3.6	423.3	20.0	406.9	16.4	30.2	Granite	7.5	25.0	17.5	23.1	4.5	Eluvial+Alluvial	11.9	13.9	2.0	101.5	19.7	Alluvial
1108	XIV	2448	96	426.4	4.6	421.8	20.0	406.4	15.4	24.0	Granite	4.6	20.0	15.4	34.7	6.9	Alluvial	8.8	12.8	4.0	65.7	13.8	Alluvial
1109	XIV	1683	100	425.8	4.0	421.8	17.0	408.8	13.0	27.0	Granite	7.0	17.0	10.0	56.9	11.3	Alluvial	7.0	14.6	7.6	62.5	12.5	Alluvial
1110	XIV	3908	98	424.9	4.7	420.2	15.3	409.6	10.6	20.5	Granite	7.1	19.0	11.9	26.1	4.7	Eluvial+Alluvial						
1111	XIV	4222	96	424.3	5.5	418.8	16.0	408.3	10.5	16.0	Granite	5.5	16.0	10.5	22.7	5.3	Alluvial						
1112	XIV	2450	100	423.6	6.8	416.8	13.9	409.7	7.1	14.0	Granite	6.8	13.9	7.1	33.7	6.2	Alluvial	6.8	8.7	1.9	68.6	12.5	Alluvial
1113	XIV	3909	96	423.2	5.5	417.7	17.3	405.9	11.8	19.0	Granite	5.5	17.3	11.8	35.7	7.5	Alluvial	5.5	7.4	1.9	66.7	16.7	Alluvial
1114	XIV	3910	104	421.9	3.5	418.4	12.3	409.6	8.8	14.4	Granite	9.3	12.3	3.0	46.0	9.4	Alluvial						
1115	XIV	1680	92	421.3	5.0	416.3	10.3	411.0	5.3	21.0	Granite	10.3	13.3	3.0	35.1	6.2	Alluvial						
1116	XIV	2452	104	420.7	4.5	416.2	12.0	408.7	7.5	22.2	Granite	4.5	12.0	7.5	26.5	5.7	Alluvial	5.5	6.5	1.0	54.0	10.9	Alluvial
1117	XIV	1679	100	420.0	5.7	414.3	11.9	408.1	6.2	19.2	Granite	5.7	11.9	6.2	42.8	9.2	Alluvial	9.0	11.9	2.9	51.2	9.9	Alluvial
1118	XIV	2453	98	419.1	5.9	413.2	5.9	413.2		18.2	Granite	5.0	5.8	0.8	13.4	4.4	Eluvial						
1119	XIV	1678	102	417.4	5.6	411.8	5.6	411.8		13.0	Granite	5.8	7.0	1.2	7.0	2.1	Eluvial						
1120	XIV	2454	96	417.2	5.5	411.7	5.5	411.7		17.0	Granite												
1121	XIV	1677	260	416.8	6.0	410.8	6.0	410.8		11.2	Granite												
1122	XII	4159		429.6	2.0	427.6	2.0	427.6		5.0	Syenite	25.0	27.0	2.0	11.5	1.0	Eluvial						
1123	XII	4158	400	432.3	2.4	429.9	2.4	429.9		5.0	Syenite												
1124	XII	1673	400	435.4	4.4	431.0	4.4	431.0		23.0	Syenite												
1125	XII	1672	396	439.2	2.0	437.2	2.0	437.2		7.0	Syenite	2.0	6.0	4.0	24.6	0.5	Eluvial						
1126	XII	1671	450	444.5	2.8	441.7	2.8	441.7		3.1													
1127	XII	1670	400	448.5	8.3	440.2	8.3	440.2		8.3													
1128	XII	1669	406	443.7	13.0	430.7	13.0	430.7		25.8	Granite	15.0	17.0	2.0	12.3	2.8	Eluvial						
1129	XII	1668	398	435.6	8.0	427.6	8.0	427.6		11.5	Granite												
1130	XII	4227	195	432.7	6.6	426.1	6.6	426.1		12.5	Granite												
1131	XII	4226	106	431.1	7.0	424.1	7.0	424.1		19.5	Granite	9.0	11.0	2.0	14.8	1.0	Eluvial						
1132	XII	4225	100	429.9	6.0	423.9	12.0	417.9	6.0	27.5	Granite	8.1	12.0	3.9	27.2	6.5	Alluvial						
1133	XII	2455	95	429.1	4.5	424.6	18.5	410.6	14.0	21.0	Granite	12.0	15.9	3.9	19.3	5.9	Alluvial						
1134	XII	2456	97	428.4	6.3	422.1	12.3	416.1	6.0	16.0	Granite	8.0	10.5	2.5	14.7	3.7	Alluvial						
1135	XII	2457	100	427.8	3.1	424.7	15.0	412.8	11.9	24.0	Granite	7.1	15.0	7.9	35.1	7.6	Alluvial						
1136	XII	2458	116	426.8	5.7	421.1	15.8	411.0	10.1	26.0	Granite	8.0	15.8	7.8	32.1	8.1	Alluvial						
1137	XII	2459	103	426.1	4.8	421.3	16.0	410.1	11.2	28.0	Granite	13.0	16.0	3.0	70.7	17.5	Alluvial	12.8	15.9	3.1	70.8	11.6	Alluvial
1138	XII	2460	97	425.5	8.0	417.5	14.5	411.0	6.5	25.0	Granite	12.0	14.4	2.4	35.0	7.9	Alluvial	12.9	14.4	1.5	52.4	11.9	Alluvial
1139	XII	2461	98	425.1	4.0	421.1	15.0	410.1	11.0	24.0	Granite	6.5	8.4	1.9	36.9	7.3	Alluvial						
1140	XII	2462	99	424.0	2.5	421.5	17.4	406.6	14.9	24.8	Granite	7.0	17.4	10.4	25.8	4.7	Alluvial						
1141	XII	2463	103	423.1	3.8	419.3	17.1	406.0	13.3	21.4	Granite	4.1	15.0	10.9	40.0	7.4	Alluvial	11.4	13.2	1.9	61.2	10.3	Alluvial
1142	XII	3900	102	422.2	6.0	416.2	13.5	408.7	7.5	23.5	Granite	6.0	13.5	7.5	41.5	7.7	Alluvial	10.4	12.3	1.9	66.3	12.8	Alluvial
1143	XII	3899	102	421.2	6.0	415.2	12.0	409.2	6.0	21.0	Granite	8.0	12.0	4.0	24.8	5.8	Alluvial						
1144	XII	3898	101	420.8	3.0	417.8	17.6	403.2	14.6	22.0	Granite	3.0	17.6	14.6	31.6	6.7	Alluvial	9.0	11.0	2.0	66.1	14.2	Alluvial
1145	XII	3897	100	420.6	5.5	415.1	9.7	410.9	4.2	20.2	Granite	7.0	11.0	4.0	29.6	3.0	Eluvial+Alluvial						
1146	XII	3904	102	419.9	4.0	415.9	9.4	410.5	5.4	18.8	Granite	4.0	9.4	5.4	35.4	7.3	Alluvial						
1147	XII	3895	98	419.7	5.0	414.7	11.0	408.7	6.0	20.8	Granite	5.0	11.0	6.0	35.6	6.4	Alluvial	7.1	9.0	2.0	53.4	6.5	Alluvial
1148	XII	3894	102	419.6	7.3	412.3	11.2	408.4	3.9	18.0	Granite	7.3	11.2	3.9	21.1	3.7	Alluvial						
1149	XII	3907	102	419.1	5.7	413.4	8.3	410.8	2.6	29.0	Granite	5.7	8.3	2.6	9.1	2.6	Alluvial						
1150	XII	259	60	418.8	6.0	412.8	6.0	412.8		10.0	Granite												
1151	XII	427	372	416.4	7.5	408.9	7.5	408.9		12.0	Granite												
1152	XII	428		416.6	9.7	406.9	9.7	406.9		11.0	Granite												
1153	XII	429	445	416.4	13.0	403.4	13.0	403.4		13.0	Granite	5.0	6.5	1.5	18.8	2.8	Alluvial						
1154	XII	430	354	415.9	14.7	401.2	14.7	401.2		15.3	Granite												
1155	XII	432	820	415.7	12.0	403.7	12.0	403.7		12.0	Granite												
1156	X	1643		423.0	2.2	420.8	2.2	420.8		5.0	Hornfels												
1157	X	1644	200	424.3	2.8	421.5	2.8	421.5		7.0	Hornfels												
1158	X	1645	200	425.7	0.4	425.3	0.4	425.3		5.0	Syenite	0.4	2.8	2.4	173.1	27.3	Eluvial						
1159	X	1646	196	426.8	3.5	423.3	3.5	423.3		7.5	Syenite												
1160	X	1647	186	427.8	2.9	424.9	4.0	423.8	1.1	20.2	Syenite	4.0	6.0	2.0	13.4	1.2	Eluvial						
1161	X	1648	200	429.8	3.0	426.8	3.0	426.8		24.0	Syenite	3.0	11.0	8.0	10.6	1.6	Eluvial						
1162	X	1649	196	431.7	5.0	426.7	5.0	426.7		29.5	Syenite	2.5	19.0	16.5	10.2	2.5	Eluvial+Alluvial						
1163	X	1650	200	433.2	4.1	429.1	4.1	429.1		22.0	Syenite	4.1	10.0	5.9	9.3	2.6	Eluvial						
1164	X	1651	194	434.5	6.0	428.5	6.0	428.5		29.5	Syenite	10.0	29.4	19.4	36.3	0.6	Eluvial						
1165	X	1652	272	436.2	2.5	433.7	2.5	433.7		10.0	Syenite												
1166	X	1653	264	438.9	2.3	436.6	2.3	436.6		5.3	Granite												
1167	X	1654	270	439.7	3.7	436.0	3.7	436.0		18.0	Granite												
1168	X	1655	440	433.9	5.0	428.9	5.0	428.9		16.0	Granite												
1169	X	1656	186	431.2	8.0	423.2	8.0	423.2		18.2	Granite												
1170	X	1657	200	430.2	6.5	423.7	6.5	423.7		13.0	Granite												
1171	X	2473	100	429.4	10.5	418.9	15.6	413.8	5.1	27.4	Granite	10.5	15.6	5.1	15.3	4.2	Alluvial						
1172	X	1658	100	428.7	6.0	422.7	16.2	412.5	10.2	18.2	Granite	6.0	16.2	10.2	22.8	5.3	Alluvial						
1173	X	2474	84	427.8	8.2	419.6	16.0	411.8	7.8	28.6	Granite	9.6	16.0	6.4	32.8	8.8	Alluvial						
1174	X	1659	84	426.7	8.7	418.0	12.8	413.9	4.1	22.0	Granite	8.7	12.8	4.1	32.9	10.2	Alluvial	8.8	11.0	2.2	53.4	13.7	Alluvial
1175	X	2475	104	425.2	7.0	418.2	7.0	418.2		13.0	Granite	8.0	9.0	1.0	18.7	5.3	Alluvial						
1176	X	1660	96	424.2	5.7	418.5	7.7	416.5	2.0	27.3	Granite	5.7	7.7	2.0	39.4		Alluvial						
1177	X	2476	100	422.9	7.0	415.9	13.0	409.9	6.0	33.4	Granite	7.0	13.0	6.0	20.8	5.7	Alluvial						
1178	X	1661	100	421.8	9.0	412.8	13.0	408.8	4.0	25.0	Granite	9.0	13.0	4.0	24.3	3.6	Alluvial	9.0	9.9	0.9	56.2	8.5	Alluvial
1179	X	2477	122	420.6	3.6	417.0	12.0	408.6	8.4	18.4	Granite	0.2	12.0	11.8	52.7	10.8	Alluvial	6.7	12.0	5.3	93.6	18.2	Alluvial
1180	X	1662	124	419.8	4.7	415.1	10.0	409.8	5.3	19.0	Granite	4.7	10.0	5.3	25.1	4.9	Alluvial						
1181	X	2478	100	419.3	4.0	415.3	9.0	410.3	5.0	15.5	Granite	3.0	9.0	6.0	36.0	7.4	Alluvial	5.9	6.8	1.0	94.5	20.8	Alluvial
1182	X	1663	100	418.8	6.0	412.8	6.0	412.8		17.5	Granite												
1183	X	2479	100	418.7	5.9	412.8	5.9	412.8		17.3	Granite												
1184	X	1664	98	418.3	4.0	414.3	4.0	414.3		21.1	Granite												
1185	X	2480	98	418.2	6.0	412.2	6.0	412.2		29.6	Granite	4.4	7.0	2.6	14.8	3.0	Eluvial+Alluvial						
1186	X	1665	100	417.8	7.5	410.3	7.5	410.3		13.5	Granite												
1187	X	2481	110	417.5	7.0	410.5	7.0	410.5		27.2	Granite												
1188	X	1666	290	416.2	10.4	405.8	10.4	405.8		16.0	Granite												
1189	X	4308	194	416.0	10.0	406.0	10.0	406.0		19.5	Syenite												
1190	X	4309	326	415.6	8.0	407.6	8.0	407.6		11.0	Syenite												
1191	X	4198	146	414.4	11.7	402.7	11.7	402.7		24.0	Syenite	11.7	23.8	12.1	11.5	1.2	Eluvial						
1192	X	4237	200	414.5	13.9	400.6	13.9	400.6		16.5	Syenite	13.9	16.4	2.5	6.4	2.0	Eluvial						
1193	X	4200	198	414.7	12.0	402.7	12.0	402.7		25.0	Syenite	12.0	21.0	9.0	24.1	1.9	Eluvial+Alluvial						
1194	X	4239	200	414.6	13.0	401.6	19.3	395.3	6.3	24.0	Syenite	19.3	23.8	4.5	15.7	1.8	Eluvial						
1195	X	4238	198	414.8	12.0	402.8	19.7	395.1	7.7	25.0	Syenite	19.7	24.8	5.1	19.2	2.9	Eluvial						
1196	X	4240	204	414.3	10.5	403.8	10.5	403.8		18.5	Syenite												
1197	X	4548	154	415.8	19.7	396.1	19.7	396.1		30.0	Gabbro	12.0	29.5	17.5	21.8	1.7	Eluvial+Alluvial						
1198	X	4518	200	414.6	16.9	397.7	27.5	387.1	10.6	28.0	Gabbro	22.0	27.5	5.5	38.4	4.9	Alluvial						
1199	X	4549	194	414.5	19.7	394.8	19.7	394.8		26.0	Gabbro	22.0	25.5	3.5	17.7	2.6	Eluvial						
1200	X	4550	200	414.5	18.4	396.1	18.4	396.1		28.0	Gabbro	18.4	25.0	6.6	40.1	0.3	Eluvial	22.9	24.9	2.0	64.8	0.5	Eluvial
1201	X	4551	200	414.4	18.0	396.4	18.0	396.4		25.0	Gabbro	18.0	22.0	4.0	27.0	0.5	Eluvial						
1202	X	4552	200	414.7	10.8	403.9	10.8	403.9		26.0	Gabbro	16.8	19.0	2.2	22.3	3.1	Eluvial						
1203	X	4553	198	414.4	16.8	397.6	16.8	397.6		21.0	Syenite		5.0	5.0	13.4	1.8	Alluvial						
1204	VIII	1641		420.7	2.1	418.6	2.1	418.6		12.1	Syenite												
1205	VIII	1640	205	421.7	2.5	419.2	2.5	419.2		10.0	Syenite	2.5	8.0	5.5	11.1	2.0	Eluvial						
1206	VIII	1639	196	421.4	1.0	420.4	1.0	420.4		5.7	Syenite												
1207	VIII	1638	210	422.5	1.6	420.9	12.0	410.5	10.4	21.1	Syenite	4.0	12.0	8.0	6.8	2.8	Alluvial						
1208	VIII	1637	206	423.9	2.2	421.7	8.0	415.9	5.8	13.0	Syenite	2.2	4.0	1.8	7.8	2.1	Alluvial						
1209	VIII	1636	207	425.1	3.2	421.9	9.2	415.9	6.0	13.8	Syenite	11.0	13.0	2.0	10.2	1.4	Eluvial						
1210	VIII	1629	203	425.7	3.9	421.8	3.9	421.8		23.5	Hornfels												

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1211	VIII	1635	202	425.6	2.4	423.2	2.4	423.2		20.0	Syenite	2.4	19.8	17.4	48.7	0.6	Eluvial	5.7	11.7	6.0	68.7	0.5	Eluvial
1212	VIII	1634	198	427.1	2.8	424.3	2.8	424.3		10.2	Syenite												
1213	VIII	3911	199	429.6	8.2	421.4	8.2	421.4		39.7	Granite	6.0	6.0	2.2	4.0	2.6	Alluvial						
1214	VIII	1633	186	431.2	3.0	428.2	3.0	428.2		23.8	Granite												
1215	VIII	3912	200	432.2	4.4	427.8	4.4	427.8		24.0	Granite												
1216	VIII	3913	118	431.7	5.0	426.7	5.0	426.7		28.0	Granite												
1217	VIII	1633	90	431.0	5.0	426.0	6.7	424.3	1.7	29.4	Granite												
1218	VIII	3914	89	429.9	4.0	425.9	6.2	423.7	2.2	13.5	Granite	4.0	6.0	2.0	7.5	1.9	Alluvial						
1219	VIII	354	74	429.0	5.2	423.8	5.2	423.8		21.0	Granite												
1220	VIII	2482	193	426.0	7.0	419.0	7.0	419.0		23.5	Granite	17.0	21.0	4.0	7.7	2.4	Eluvial						
1221	VIII	366	52	425.4	3.6	421.8	3.6	421.8		15.3	Granite												
1222	VIII	2483	44	425.2	2.4	422.8	4.0	421.2	1.6	15.0	Granite												
1223	VIII	460	55	424.8	1.0	423.8	10.1	414.7	9.1	12.0	Granite	4.5	10.1	5.6	13.7	3.4	Alluvial						
1224	VIII	2484	47	424.6	1.0	423.6	12.2	412.4	11.2	22.9	Granite	5.1	12.2	7.1	19.6	3.6	Alluvial						
1225	VIII	353	47	424.4	2.0	422.4	11.0	413.4	9.0	21.0	Syenite	6.3	11.0	4.7	43.5	14.9	Alluvial						
1226	VIII	2485	48	423.9	2.0	421.9	11.0	412.9	9.0	24.2	Syenite	5.0	11.0	6.0	37.1	7.2	Alluvial	6.8	9.7	2.9	69.1	12.9	Alluvial
1227	VIII	461	51	423.6	2.5	421.1	9.2	414.4	6.7	20.5	Syenite	2.5	10.0	7.5	20.1	5.4	Eluvial+Alluvial						
1228	VIII	2486	53	422.9	3.1	419.8	9.6	413.3	6.5	22.6	Syenite	3.1	11.0	7.9	35.1	9.1	Eluvial+Alluvial	7.3	8.5	1.2	76.5	22.1	Alluvial
1229	VIII	3915	52	422.7	8.0	414.7	8.0	414.7		14.0	Syenite	10.5	13.0	2.5	8.3	2.8	Eluvial+Alluvial						
1230	VIII	462	97	422.5	6.6	415.9	6.6	415.9		8.2	Syenite	1.2	6.6	5.4	42.0	10.6	Alluvial	4.0	5.2	1.2	62.4	13.7	Alluvial
1231	VIII	3916	103	422.1	8.0	414.1	8.0	414.1		9.0	Syenite												
1232	VIII	463	102	421.5	7.9	413.6	7.9	413.6		8.1	Syenite	1.0	3.0	2.0	1.9	4.9	Alluvial						
1233	VIII	3917	98	420.7	7.0	413.7	7.0	413.7		14.7	Syenite	9.0	14.0	5.0	11.0	2.5	Eluvial						
1234	VIII	464	103	419.7	7.4	412.3	7.4	412.3		8.3	Granite												
1235	VIII	2492	54	418.8	5.1	413.7	5.1	413.7		17.6	Granite	5.8	8.0	2.2	12.0	1.8	Eluvial						
1236	VIII	351	48	418.2	3.0	415.2	9.8	408.4	6.8	21.0	Granite	6.0	10.0	4.0	20.8	5.4	Alluvial						
1237	VIII	2493	52	417.5	6.0	411.5	7.0	410.5	1.0	17.4	Granite												
1238	VIII	465	48	416.9	2.0	414.9	7.0	409.9	5.0	8.2	Syenite	5.0	7.0	2.0	16.4	3.2	Eluvial+Alluvial						
1239	VIII	2494	51	416.9	3.0	413.9	6.0	410.9	3.0	16.0	Syenite	3.0	7.0	4.0	24.0	5.1	Alluvial						
1240	VIII	363	53	417.0	5.8	411.2	6.2	410.8	0.4	14.0	Granite	5.8	8.0	2.2	9.3	3.9	Eluvial+Alluvial						
1241	VIII	2495	51	416.8	3.2	413.6	5.9	410.9	2.7	17.2	Granite	3.2	5.9	2.7	30.7	6.8	Alluvial						
1242	VIII	466	49	416.3	5.4	411.0	7.0	409.3	1.6	10.5	Granite	5.4	7.0	1.7	53.8	10.3	Alluvial	6.0	6.9	1.0	59.3	11.8	Alluvial
1243	VIII	2496	50	416.6	4.0	412.6	6.0	410.6	2.0	20.4	Granite	4.0	5.0	1.0	66.4	13.1	Alluvial	4.0	5.0	1.0	66.5	3.1	Alluvial
1244	VIII	350	50	416.8	4.0	412.8	6.0	410.8	2.0	13.0	Monzonite	4.0	5.0	1.0	21.3	2.5	Alluvial						
1245	VIII	2497	50	416.9	5.0	411.9	6.2	410.7	1.2	26.5	Monzonite	5.0	6.8	1.8	4.3	1.0	Alluvial						
1246	VIII	467	47	416.7	4.0	412.7	7.2	409.5	3.2	9.9	Syenite	4.0	7.2	3.2	15.3	3.6	Alluvial						
1247	VIII	2498	49	416.4	5.0	411.4	6.6	409.8	1.6	23.0	Syenite	5.0	11.0	6.0	17.3	5.2	Eluvial+Alluvial						
1248	VIII	3918	49	416.3	11.7	404.6	11.7	404.6		13.0	Syenite												
1249	VIII	468	62	416.2	7.0	409.2	7.0	409.2		8.0	Syenite												
1250	VIII	469	86	416.5	10.0	406.5	10.0	406.5		11.8	Syenite	8.8	11.8	3.0	7.2	2.5	Eluvial+Alluvial			3.0			
1251	VIII	205	98	416.1	3.0	413.1	3.0	413.1		12.0	Syenite	3.0	4.0	1.0	10.4	1.4							
1252	VIII	4199	597	414.9	4.5	410.4	4.5	410.4		5.0	Syenite												
1253	VIII	4285	197	413.9	10.0	403.9	10.0	403.9		17.0	Monzonite	10.0	16.5	6.5	8.2	1.9	Eluvial						
1254	VIII	4241	200	414.5	12.0	402.5	12.0	402.5		16.2	Syenite	10.5	14.2	3.7	8.1	4.1	Eluvial						
1255	VIII	4286	200	414.3	12.0	402.3	12.0	402.3		22.0	Gabbro	13.0	21.8	8.8	12.2	2.1	Eluvial						
1256	VIII	4287	200	413.5	15.4	398.1	15.4	398.1		24.5	Gabbro	15.4	24.4	9.0	12.1	1.8	Eluvial						
1257	VIII	4288	202	414.0	21.0	393.0	21.0	393.0		25.0	Gabbro	21.0	24.6	3.6	12.8	1.3	Eluvial						
1258	VIII	4289	198	413.0	20.8	392.2	20.8	392.2		27.5	Gabbro	23.2	27.3	4.1	24.5	0.5	Eluvial						
1259	VIII	4517	198	413.5	12.0	401.5	25.0	388.5	13.0	27.0	Gabbro	12.0	25.0	13.0	8.6	3.4	Alluvial						
1260	VIII	4516	202	414.0	23.0	391.0	27.7	386.3	4.7	31.0	Gabbro	13.0	29.0	16.0	18.0	3.2	Alluvial						
1261	VIII	4515	200	413.9	20.0	393.9	25.0	388.9	5.0	30.0	Gabbro	20.0	27.0	7.0	21.4	2.3	Eluvial+Alluvial						
1262	VIII	4514	200	414.1	21.5	392.6	21.5	392.6		23.0	Gabbro	17.0	23.0	6.0	10.8	1.1	Eluvial+Alluvial						
1263	VIII	4513	198	414.5	18.0	396.5	18.0	396.5		21.0	Gabbro												
1264	VII	4342		418.1	1.1	417.0	1.1	417.0		13.0	Hornfels												
1265	VII	4341	92	417.9	1.8	416.1	1.8	416.1		23.6	Syenite	1.9	9.5	7.6	13.5	1.8	Eluvial						
1266	VII	4343	98	418.4	2.0	416.4	2.0	416.4		11.6	Syenite	2.0	11.5	9.5	11.1	2.1	Eluvial						
1267	VII	4336	100	418.7	2.0	416.7	2.0	416.7		12.0	Syenite	2.0	4.0	2.0	22.1	2.8	Eluvial						
1268	VII	4335	100	419.6	2.6	417.0	2.6	417.0		16.2	Syenite												
1269	VII	4334	98	420.5	3.5	417.0	6.0	414.5	2.5	19.5	Syenite	3.5	10.0	6.5	14.1	3.9	Eluvial+Alluvial	5.2	6.0	0.8	51.1	10.6	Alluvial
1270	VII	4317	100	420.6	4.5	416.1	9.3	411.3	4.8	21.5	Syenite	4.5	11.0	6.5	12.3	2.8	Eluvial+Alluvial						
1271	VII	4324	102	420.1	4.5	415.6	9.3	410.8	4.8	14.0	Syenite	4.5	11.5	7.0	14.7	3.4	Eluvial+Alluvial						
1272	VII	4318	102	419.0	2.6	416.4	4.2	414.8	1.6	11.0	Syenite	6.0	10.5	4.5	10.3	1.5	Eluvial						
1273	VII	4319	94	419.5	3.4	416.1	4.0	415.5	0.6	14.5	Syenite	12.0	14.0	2.0	4.6	7.6	Eluvial						
1274	VII	4320	102	419.8	4.5	415.3	4.5	415.3		15.5	Syenite	4.5	7.5	3.0	7.8	2.7	Eluvial						
1275	VII	4321	200	421.3	5.0	416.3	5.0	416.3		20.3	Syenite	5.0	15.0	10.0	15.2	1.4	Eluvial						
1276	VII	4322	200	422.4	3.5	418.9	3.5	418.9		22.0	Syenite	3.5	21.7	18.2	24.0	1.6	Eluvial						
1277	VII	4323	196	421.8	2.7	419.1	2.7	419.1		16.0	Syenite												
1278	VII	3919	198	422.7	2.8	419.9	2.8	419.9		16.0	Syenite												
1279	VII	3920	200	424.6	3.5	421.1	3.5	421.1		16.0	Granite												
1280	VII	3921	202	426.0	5.0	421.0	5.0	421.0		25.5	Granite	21.0	23.0	2.0	24.0	1.1	Eluvial						
1281	VII	3922	202	425.6	5.0	420.6	5.0	420.6		20.0	Granite												
1282	VII	3923	200	424.0	3.0	421.0	3.0	421.0		23.0	Granite												
1283	VII	3924	98	422.5	3.5	419.0	3.5	419.0		21.5	Syenite	3.5	17.0	13.5	8.2	2.2	Eluvial						
1284	VII	3925	98	421.8	3.2	418.6	3.2	418.6		6.0	Syenite												
1285	VII	3926	96	421.1	5.1	416.0	5.1	416.0		22.0	Granite												
1286	VII	3927	98	420.0	4.0	416.0	4.0	416.0		22.0	Granite												
1287	VII	3928	100	419.9	3.3	416.6	3.3	416.6		7.2	Syenite	3.2	7.0	3.8	6.4	2.2	Eluvial						
1288	VII	3929	106	419.5	3.9	415.6	3.9	415.6		6.5	Syenite	3.9	6.2	2.3	5.8	2.2	Eluvial						
1289	VII	3930	96	418.7	3.2	415.5	3.8	414.9	0.6	13.5	Syenite	5.0	12.0	7.0	9.7	3.2	Eluvial						
1290	VII	3931	96	417.9	6.0	411.9	6.0	411.9		11.7	Syenite	6.9	11.0	4.1	10.8	2.6	Eluvial						
1291	VII	3932	194	416.8	5.0	411.8	5.0	411.8		12.7	Monzonite	7.0	12.7	5.7	33.1	1.0	Eluvial						
1292	VII	3933	196	415.8	5.0	410.8	5.0	410.8		7.0	Syenite												
1293	VII	4212	102	415.3	4.0	411.3	4.0	411.3		6.0	Syenite												
1294	VII	3934	98	414.9	9.6	405.3	14.0	400.9	4.4	22.0	Syenite	14.0	15.6	1.6	12.6	8.5	Eluvial						
1295	VII	3935	100	414.4	8.8	405.6	14.6	399.8	5.8	21.0	Syenite	9.0	20.2	11.2	7.1	4.5	Eluvial+Alluvial						
1296	VII	3936	104	414.4	11.0	403.4	18.0	396.4	7.0	18.6	Monzonite	11.0	18.0	7.0	9.4	9.4	Eluvial+Alluvial						
1297	VII	3937	94	414.4	12.0	402.4	16.0	398.4	4.0	21.0	Monzonite	12.0	20.5	8.5	19.9	7.8	Eluvial+Alluvial						
1298	VII	4213	102	415.1	7.0	408.1	7.0	408.1		20.5	Monzonite	6.0	14.0	8.0	37.9	1.8	Eluvial+Alluvial	8.3	14.0	5.7	52.5	0.8	Eluvial
1299	VII	3938	98	414.4	10.0	404.4	10.0	404.4		23.0	Syenite	10.0	22.5	12.5	15.8	3.4	Eluvial						
1300	VI	4344		416.9	7.0	409.9	7.0	409.9		8.0	Syenite												
1301	VI	4345	193	417.1	1.0	416.1	1.0	416.1		4.0	Syenite												
1302	VI	4346	204	418.6	4.0	414.6	4.0	414.6		9.7	Syenite												
1303	VI	1619	196	416.7	2.1	414.6	2.1	414.6		3.0	Syenite												
1304	VI	1624	197	417.1	1.8	415.3	1.8	415.3		3.0	Syenite	0.6	1.8	1.2	1.3	11.1	Alluvial						
1305	VI	1625	197	416.1	3.0	413.1	3.0	413.1		4.8	Syenite												
1306	VI	3717	100	417.0	3.0	414.0	3.0	414.0		8.9	Syenite												
1307	VI	1626	100	417.2	2.0	415.2	16.5	400.7	14.5	19.0	Syenite	9.8	16.7	6.9	7.5	2.6	Alluvial						
1308	VI	3718	98	416.8	4.3	412.5	4.3	412.5		14.0	Syenite	4.0	13.0	9.0	18.2	0.4	Eluvial						
1309	VI	3719	98	416.5	6.0	410.5	6.0	410.5		9.0	Granite												
1310	VI	3720	102	415.9	4.8	411.1	4.8	411.1		28.0	Granite	19.0	21.0	2.0	26.5	0.7	Eluvial						
1311	VI	3721	98	415.7	3.0	412.7	3.0	412.7		22.0	Granite												
1312	VI	3722	100	415.8	1.8	414.0	1.8	414.0		23.0	Granite												
1313	VI	3723	102	416.9	5.0	411.9	5.0	411.9		9.0	Granite												
1314	VI	3724	196	419.4	9.0	410.4	9.0	410.4		29.2	Granite												
1315	VI	3725	198	421.0	22.5	398.5	23.5	397.5	1.0	36.0	Syenite	22.5	23.5	1.0	9.6	5.2	Alluvial						
1316	VI	3726	203	419.4	20.0	399.4	22.0	397.4	2.0	36.0	Syenite												
1317	VI	3727	100	418.1	7.5	410.6	17.3	400.8	9.8	35.0	Syenite	9.0	17.2	8.2	15.6	3.3	Alluvial	16.3	17.2	0.9	60.0	14.2	Alluvial
1318	VI	3728	100	417.1	8.0	409.1	16.1	401.0	8.1	20.0	Granite	6.0	18.0	12.0	12.1	4.9	Eluvial+Alluvial						
1319	VI	3729	102	416.3	6.2	410.1	18.0	398.3	11.8	36.0	Syenite	6.2	35.0	28.8	10.1	2.9	Eluvial+Alluvial						
1320	VI	3730	100	416.2	5.4	410.8	13.0	403.2	7.6	27.0	Syenite	5.4	13.0	7.6	25.9	7.5	Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1321	VI	3731	100	416.3	5.5	410.8	17.2	399.1	11.7	30.0	Syenite	9.8	17.2	7.4	22.3	7.7	Alluvial						
1322	VI	1622	96	416.2	6.0	410.2	17.0	399.2	11.0	23.0	Syenite	11.0	23.0	12.0	13.4	2.6	Eluvial+Alluvial						
1323	VI	3732	102	415.2	6.0	409.2	11.1	404.1	5.1	32.0	Syenite	6.0	8.8	2.8	20.6	5.1	Alluvial						
1324	VI	3733	88	415.5	5.5	410.0	14.0	401.5	8.5	25.0	Syenite	12.0	22.0	10.0	9.6	2.1	Eluvial+Alluvial						
1325	VI	3739	96	414.6	7.8	406.8	19.0	395.6	11.2	27.0	Monzonite	20.9	26.3	5.4	14.7	1.4	Eluvial						
1326	VI	3740	87	414.5	6.5	408.0	17.7	396.8	11.2	26.0	Syenite	20.0	25.0	5.0	5.3	4.4	Eluvial						
1327	VI	1618	202	414.3	2.5	411.8	2.9	411.4	0.4	4.1	Syenite												
1328	VI	1617	187	413.2	0.7	412.5	2.5	410.7	1.8	3.3	Syenite	0.6	2.2	1.6	42.5	1.3	Alluvial						
1329	VI	3741	106	413.6	12.0	401.6	17.6	396.0	5.6	25.0	Syenite	12.0	24.0	12.0	13.3	4.7	Eluvial+Alluvial						
1330	VI	3742	92	413.9	10.0	403.9	17.0	396.9	7.0	23.0	Monzonite	14.0	22.1	8.1	14.8	5.7	Eluvial+Alluvial						
1331	VI	3743	99	414.0	10.0	404.0	19.8	394.2	9.8	27.0	Monzonite	12.0	25.7	13.7	9.8	6.5	Eluvial+Alluvial						
1332	VI	3744	98	413.8	15.0	398.8	24.5	389.3	9.5	31.0	Monzonite	15.0	30.0	15.0	9.9	6.4	Eluvial+Alluvial						
1333	VI	3745	206	413.6	12.0	401.6	18.5	395.1	6.5	29.0	Syenite	18.8	27.0	8.2	9.0	2.6	Eluvial						
1334	VI	3746	244	413.2	13.0	400.2	14.8	398.4	1.8	26.0	Syenite	13.0	25.2	12.2	16.1	3.9	Eluvial+Alluvial						
1335	VI	1612	181	413.2	2.3	410.9	5.7	407.5	3.4	9.0	Granite	2.3	4.4	2.1	6.2	0.5	Alluvial						
1336	VI	3994	164	412.9	17.5	395.4	17.5	395.4		29.5	Syenite	19.5	29.0	9.5	14.8	1.4	Eluvial						
1337	VI	3995	234	413.3	17.2	396.1	17.2	396.1		31.5	Monzonite	18.0	31.0	13.0	27.6	2.5	Eluvial	21.9	23.9	2.0	52.0	4.3	Eluvial
1338	VI	3996	203	413.5	17.0	396.5	22.4	391.1	5.4	30.7	Monzonite	17.0	30.0	13.0	18.2	4.3	Eluvial+Alluvial						
1339	VI	4284	200	413.0	10.0	403.0	16.5	396.5	6.5	21.0	Syenite	14.8	15.5	0.7	12.2	6.3	Alluvial						
1340	VI	3998	196	413.2	18.0	395.2	41.4	371.8	23.4	46.0	Gabbro	18.0	46.0	28.0	17.7	4.9	Eluvial+Alluvial						
1341	VI	3999	210	415.0	22.0	393.0	32.4	382.6	10.4	39.0	Gabbro	22.0	34.5	12.5	9.0	4.1	Eluvial+Alluvial						
1342	VI	4000	172	413.2	20.0	393.2	30.0	383.2	10.0	35.0	Gabbro	20.0	27.0	7.0	8.4	6.1	Alluvial						
1343	VI	4001	200	413.6	25.8	387.8	25.8	387.8		38.6	Gabbro	25.8	34.0	8.2	15.8	1.3	Eluvial						
1344	VI	1605	220	413.2	20.3	392.9	26.3	386.9	6.0	33.0	Syenite	20.3	26.3	6.0	29.4	1.5	Alluvial						
1345	VI	2291	220	414.3	25.4	388.9	25.4	388.9		26.4	Gabbro												
1346	VI	1604A	198	415.2	24.0	391.2	24.0	391.2		31.0	Syenite	24.0	26.0	2.0	33.9	0.4	Alluvial						
1347	VI	1603	208	414.7	20.6	394.1	20.6	394.1		21.5	Syenite												
1348	VI	1602	206	414.2	17.5	396.7	17.5	396.7		24.6	Monzonite	17.5	24.0	6.5	21.0	1.6	Eluvial						
1349	VI	2292	200	414.5	18.3	396.2	19.5	395.0	1.2	24.6	Monzonite	19.5	24.5	5.0	22.5	5.8	Eluvial						
1350	VI	2293	198	414.5	17.3	397.2	18.0	396.5	0.7	18.5	Syenite												
1351	VI	2294	197	414.7	12.0	402.7	12.0	402.7		13.0	Syenite												
1352	IV	4333		415.8	7.8	408.0	7.8	408.0		8.0	Syenite												
1353	IV	4332	102	415.2	4.0	411.2	4.0	411.2		13.5	Syenite												
1354	IV	4331	96	415.1	5.0	410.1	11.5	403.6	6.5	25.3	Syenite	16.0	24.0	8.0	9.9	1.8	Eluvial						
1355	IV	4325	100	414.8	5.0	409.8	12.4	402.4	7.4	22.3	Syenite	13.0	21.0	8.0	10.4	2.0	Eluvial						
1356	IV	4326	98	414.4	5.5	408.9	14.5	399.9	9.0	20.0	Syenite												
1357	IV	4327	99	413.8	5.0	408.8	13.8	400.0	8.8	25.5	Syenite	15.5	20.0	4.5	38.8	4.5	Eluvial						
1358	IV	4328	102	413.9	4.0	409.9	14.4	399.5	10.4	27.0	Syenite												
1359	IV	4217	98	413.4	4.0	409.4	12.5	400.9	8.5	26.0	Syenite	10.7	12.2	1.5	5.7	2.4	Alluvial						
1360	IV	4215	100	413.4	4.0	409.4	11.5	401.9	7.5	26.5	Syenite	17.5	22.5	5.0	12.2	2.9	Eluvial						
1361	IV	4216	100	413.1	4.0	409.1	11.4	401.7	7.4	26.3	Syenite	18.0	20.0	2.0	3.4	4.6	Eluvial						
1362	IV	4214	100	413.1	3.7	409.4	4.9	408.2	1.2	21.3	Syenite	28.0	42.2	14.2	14.2	2.2	Eluvial+Alluvial						
1363	IV	3747	98	413.2	7.5	405.7	17.7	395.5	10.2	29.0	Syenite	17.8	19.8	2.0	14.8	4.9	Eluvial						
1364	IV	3748	102	412.4	7.0	405.4	16.0	396.4	9.0	31.0	Syenite	12.0	24.0	12.0	7.9	2.6	Eluvial+Alluvial						
1365	IV	3749	100	412.4	7.0	405.4	20.0	392.4	13.0	25.0	Syenite	8.8	24.6	15.8	18.3	6.4	Eluvial+Alluvial						
1366	IV	3750	84	412.4	7.0	405.4	19.0	393.4	12.0	27.5	Syenite	9.0	23.0	14.0	9.9	3.8	Eluvial+Alluvial						
1367	IV	3751	90	412.1	6.0	406.1	16.0	396.1	10.0	24.0	Syenite	13.0	24.0	11.0	10.1	4.2	Eluvial+Alluvial						
1368	IV	3752	100	411.8	7.0	404.8	16.0	395.8	9.0	23.0	Syenite	13.6	16.0	2.4	9.2	2.8	Alluvial						
1369	IV	3753	100	411.7	6.0	405.7	16.0	395.7	10.0	31.0	Syenite	6.0	12.0	6.0	9.1	3.9	Alluvial						
1370	IV	3754	95	411.8	5.3	406.5	18.6	393.2	13.3	20.0	Granite	10.7	14.7	4.0	10.1	5.1	Alluvial						
1371	IV	3755	94	412.6	5.0	407.6	21.5	391.1	16.5	23.0	Granite	17.0	22.0	5.0	21.5	5.8	Alluvial						
1372	IV	3940	91	413.5	16.0	397.5	21.0	392.5	5.0	22.0	Granite												
1373	IV	3941	101	413.9	18.0	395.9	23.0	390.9	5.0	32.5	Syenite												
1374	IV	3942	98	415.1	18.0	397.1	27.0	388.1	9.0	43.5	Granite	18.9	22.9	4.0	24.8	7.6	Alluvial						
1375	IV	3943	71	415.6	18.0	397.6	25.0	390.6	7.0	37.0	Syenite	18.0	36.5	18.5	10.2	4.5	Eluvial+Alluvial						
1376	IV	3944	96	415.8	17.0	398.8	27.0	388.8	10.0	37.0	Syenite	17.0	25.0	8.0	10.5	4.6	Alluvial						
1377	IV	3945	92	415.3	15.8	399.5	23.8	391.5	8.0	33.5	Syenite	15.8	29.8	14.0	18.1	3.5	Eluvial+Alluvial						
1378	IV	3946	103	414.0	13.0	401.0	25.0	389.0	12.0	32.3	Syenite	13.0	31.5	18.5	22.1	5.1	Eluvial+Alluvial						
1379	IV	3947	100	412.5	14.0	398.5	25.0	387.5	11.0	31.0	Syenite	16.0	30.5	14.5	18.5	4.5	Eluvial+Alluvial						
1380	IV	3948	102	412.1	13.0	399.1	29.0	383.1	16.0	32.5	Syenite	14.5	26.0	11.5	30.1	7.1	Alluvial						
1381	IV	3949	98	412.1	12.4	399.7	24.4	387.7	12.0	31.5	Syenite	12.4	26.0	13.6	16.1	3.7	Eluvial+Alluvial						
1382	IV	3950	98	410.7	12.0	398.7	26.0	384.7	14.0	31.0	Syenite	10.0	23.0	13.0	22.0	5.7	Alluvial						
1383	IV	3951	100	403.8	13.0	390.8	24.0	379.8	11.0	30.5	Syenite	13.0	24.0	11.0	10.1	4.2	Alluvial						
1384	IV	3952	100	411.8	12.0	399.8	26.5	385.3	14.5	23.0	Granite	16.1	27.5	11.4	6.3	3.4	Eluvial+Alluvial						
1385	IV	3953	100	411.7	13.7	398.0	22.0	389.7	8.3	31.0	Granite	20.0	25.5	5.5	14.1	3.4	Eluvial+Alluvial						
1386	IV	3954	95	411.8	12.0	399.8	25.5	386.3	13.5	20.0	Syenite	22.0	29.0	7.0	9.5	3.2	Eluvial+Alluvial						
1387	IV	3955	94	412.6	12.0	400.6	27.0	385.6	15.0	23.0	Syenite	24.0	33.0	9.0	11.0	2.9	Eluvial+Alluvial						
1388	IV	3956	200	409.9	13.0	396.9	32.5	377.4	19.5	34.5	Syenite	19.0	33.7	14.7	4.1	4.8	Eluvial+Alluvial						
1389	IV	3957	200	409.8	14.0	395.8	28.0	381.8	14.0	29.5	Syenite	28.0	29.0	1.0	6.1	3.5	Eluvial+Alluvial						
1390	IV	4072	200	410.3	11.0	399.3	31.0	379.3	20.0	37.0	Syenite	29.0	36.4	7.4	8.5	2.4	Eluvial+Alluvial						
1391	IV	3958	200	410.2	5.0	405.2	28.8	381.4	23.8	35.0	Syenite	5.0	34.4	29.4	13.2	7.9	Eluvial+Alluvial						
1392	IV	4295	200	410.2	10.0	400.2	10.0	400.2		11.0	Syenite	9.8	10.5	0.7	11.0	2.9	Eluvial						
1393	IV	4294	198	410.9	10.5	400.4	12.0	398.9	1.5	16.4	Syenite	8.0	16.0	8.0	7.7	2.8	Eluvial+Alluvial						
1394	IV	4293	196	410.7	15.8	394.9	15.8	394.9		17.3	Syenite												
1395	IV	4290	196	411.4	11.0	400.4	16.4	395.0	5.4	25.0	Syenite	11.0	16.6	5.6	12.5	5.8	Alluvial						
1396	IV	4291	196	411.7	13.5	398.2	15.1	396.6	1.6	29.7	Gabbro	15.6	29.8	14.2	15.5	2.3	Eluvial						
1397	IV	4292	200	413.9	11.5	402.4	19.5	394.4	8.0	29.5	Gabbro	21.0	29.0	8.0	13.3	3.7	Eluvial						
1398	IV	4298	200	412.6	20.0	392.6	27.0	385.6	7.0	36.5	Gabbro	20.0	35.0	15.0	19.2	1.5	Eluvial+Alluvial						
1399	IV	4299	200	411.7	18.0	393.7	35.0	376.7	17.0	38.2	Syenite	32.0	36.7	4.7	26.9	3.5	Eluvial+Alluvial						
1400	IV	4300	202	412.0	18.0	394.0	27.7	384.3	9.7	35.6	Gabbro	18.0	24.0	6.0	8.1	3.5	Alluvial						
1401	IV	4301	198	412.7	23.4	389.3	23.4	389.3		30.3	Gabbro												
1402	IV	4302	198	412.8	25.0	387.8	25.0	387.8		29.6	Monzonite	23.5	29.3	5.8	20.6	2.1	Eluvial+Alluvial						
1403	IV	4510	196	413.1	23.6	389.5	23.6	389.5		35.5	Syenite												
1404	IV	4504	200	414.5	24.9	389.6	24.9	389.6		27.0	Gabbro	25.0	26.5	1.5	12.0	1.7	Eluvial						
1405	IV	4546	200	414.2	22.0	392.2	22.0	392.2		27.0	Syenite												
1406	IV	4519	200	413.9	16.0	397.9	19.5	394.4	3.5	27.0	Monzonite	20.0	27.0	7.0	36.7	2.7	Eluvial						
1407	IV	4547	196	415.0	13.5	401.5	13.5	401.5		24.0	Syenite	14.0	16.0	2.0	49.7		Eluvial						
1408	II	4315		416.4	15.0	401.4	15.0	401.4		29.5	Hornfels	27.0	29.0	2.0	10.1	1.9	Eluvial						
1409	II	4316	199	415.7	15.0	400.7	15.0	400.7		26.0	Syenite	19.0	23.0	4.0	10.0	2.1	Eluvial						
1410	II	4329	98	415.5	11.7	403.8	16.0	399.5	4.3	26.7	Syenite												
1411	II	2095	100	414.9	11.0	403.9	17.0	397.9	6.0	26.0	Syenite												
1412	II	4330	99	414.6	11.5	403.1	15.0	399.6	3.5	29.0	Monzonite	16.0	22.0	6.0	8.7	2.6	Eluvial						
1413	II	4337	99	414.4	11.5	402.9	15.0	399.4	3.5	29.0	Monzonite	20.0	26.5	6.5	11.6	1.9	Eluvial						
1414	II	4338	98	414.6	12.5	402.1	12.5	402.1		13.0	Monzonite	12.0	13.0	1.0	20.8	0.9	Eluvial						
1415	II	2096	101	414.2	12.5	401.7	12.5	401.7		20.2	Syenite	12.4	20.0	7.6	11.0	2.3	Eluvial						
1416	II	4339	198	413.1	14.1	399.0	14.1	399.0		26.0	Syenite	14.0	22.0	8.0	7.3	3.0	Eluvial						
1417	II	2097	194	412.3	11.5	400.8	11.5	400.8		32.5	Syenite	23.0	27.0	4.0	4.4	8.9	Eluvial						
1418	II	4340	196	411.5	15.5	396.0	15.5	396.0		26.0	Syenite	15.5	22.0	6.5	4.4	3.2	Eluvial						
1419	II	2098	198	411.1	8.3	402.8	8.3	402.8		24.8	Syenite	12.3	22.3	10.0	7.5	2.0	Eluvial						
1420	II	4100	99	410.8	11.8	399.0	11.8	399.0		21.0	Syenite	12.5	16.5	4.0	13.2	2.4	Eluvial						
1421	II	4204	98	410.6	10.5	400.1	10.5	400.1		20.8	Syenite	15.5	20.8	5.3	9.5	3.5	Eluvial						
1422	II	4201	100	410.6	10.5	400.1	10.5	400.1		13.5	Syenite												
1423	II	4202	102	410.7	10.2	400.5	10.2	400.5		11.3	Syenite												
1424	II	4203	121	409.9	3.2	406.7	3.2	406.7		16.0	Syenite												
1425	II	4205	96	410.4	8.5	401.9	18.0	392.4	9.5	21.0	Syenite	9.0	14.0	5.0	7.2	2.1	Alluvial						
1426	II	4206	100	410.6	13.7	396.9	22.5	388.1	8.8	27.0	Syenite	16.6	24.5	7.9	22.6	6.4	Eluvial+Alluvial						
1427	II	4207	96	410.7	12.0	398.7	24.5	386.2	12.5	40.0	Syenite	21.7	28.0	6.3	25.7	6.1	Eluvial+Alluvial						
1428	II	4208	99	411.2	12.4	398.8	24.6	386.6	12.2	26.0	Syenite	17.9	25.0	7.1	12.6	3.7	Alluvial						
1429	II	2140	100	410.6	10.5	400.1	26.0	384.6	15.5	30.5	Syenite	13.0	30.0	17.0	22.3	5.1	Eluvial+Alluvial						
1430	II	4002	106	411.1	11.0	400.1	29.0	382.1	18.0	32.2	Syenite	18.0	30.0	12.0	25.4	6.1	Eluvial+Alluvial	24.0	27.0	3.0	58.8	14.0	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1431	II	4022	96	410.2	10.0	400.2	28.5	381.7	18.5	33.5	Syenite	13.0	32.0	19.0	18.9	5.4	Eluvial+Alluvial						
1432	II	4023	96	409.6	11.0	398.6	26.0	383.6	15.0	40.0	Syenite	11.0	36.0	25.0	18.1	4.6	Eluvial+Alluvial						
1433	II	4024	99	409.4	10.5	398.9	24.0	385.4	13.5	42.5	Syenite	13.2	31.5	18.3	18.4	4.4	Eluvial+Alluvial						
1434	II	4028	100	408.9	10.5	398.4	24.3	384.6	13.8	38.5	Syenite	10.5	25.6	15.1	19.8	5.8	Eluvial+Alluvial						
1435	II	2102	100	408.8	13.4	395.4	23.3	385.5	9.9	35.5	Syenite	13.5	31.0	17.5	12.9	3.7	Eluvial+Alluvial						
1436	II	4073	99	409.3	12.4	396.9	24.7	384.6	12.3	32.0	Syenite	12.5	18.0	5.5	22.4	6.5	Alluvial						
1437	II	2138	99	409.3	10.5	398.8	20.0	389.3	9.5	31.2	Syenite	20.0	31.0	11.0	11.1	3.5	Eluvial						
1438	II	4209	98	409.3	11.5	397.8	24.3	385.0	12.8	32.2	Syenite	24.5	32.0	7.5	13.1	3.8	Eluvial						
1439	II	2103	103	409.3	12.0	397.3	20.6	388.7	8.6	32.0	Syenite	20.6	30.0	9.4	9.8	3.3	Eluvial						
1440	II	4210	104	409.3	13.0	396.3	22.8	386.5	9.8	33.0	Syenite	21.0	32.8	11.8	11.0	3.4	Eluvial+Alluvial						
1441	II	2103A	99	409.3	10.0	399.3	19.0	390.3	9.0	27.5	Syenite	19.0	25.0	6.0	12.2	5.2	Eluvial						
1442	II	4211	100	409.0	13.0	396.0	23.2	385.8	10.2	32.5	Monzonite	19.0	32.0	13.0	13.1	4.5	Eluvial+Alluvial						
1443	II	2104	101	409.2	11.5	397.7	27.5	381.7	16.0	30.2	Monzonite	27.8	29.8	2.0	18.9	2.7	Eluvial						
1444	II	2273	200	409.2	14.5	394.7	28.0	381.2	13.5	35.5	Syenite	27.0	35.4	8.4	11.4	3.8	Eluvial+Alluvial						
1445	II	2105	200	409.2	12.2	397.0	28.4	380.8	16.2	37.0	Syenite	24.5	34.0	9.5	10.1	2.9	Eluvial+Alluvial						
1446	II	2274	196	409.6	15.0	394.6	24.6	385.0	9.6	29.4	Syenite	21.0	29.0	8.0	8.8	2.5	Eluvial+Alluvial						
1447	II	2106	203	409.8	10.0	399.8	20.6	389.2	10.6	24.5	Granite	16.0	24.0	8.0	11.3	2.0	Eluvial+Alluvial						
1448	II	2275	197	410.1	11.5	398.6	22.7	387.4	11.2	24.0	Syenite												
1449	II	2107	200	410.7	12.7	398.0	12.7	398.0		23.5	Syenite												
1450	II	4303	201	410.4	18.6	391.8	18.6	391.8		39.3	Gabbro	18.5	28.0	9.5	19.2	0.4	Eluvial						
1451	II	2108	202	411.6	13.5	398.1	19.0	392.6	5.5	33.0	Gabbro	16.0	31.1	15.1	17.1	2.0	Eluvial+Alluvial						
1452	II	4304	202	410.5	19.2	391.3	19.2	391.3		35.5	Gabbro	17.5	31.0	13.5	22.5	0.8	Eluvial						
1453	II	4305	202	412.3	18.0	394.3	24.0	388.3	6.0	40.5	Gabbro	18.0	24.0	6.0	11.6	5.2	Alluvial						
1454	II	4500	200	412.0	18.0	394.0	32.5	379.5	14.5	41.5	Gabbro	16.5	27.6	11.1	12.1	4.7	Alluvial						
1455	II	4306	96	411.4	18.0	393.4	39.3	372.1	21.3	42.0	Gabbro	18.0	39.7	21.7	12.7	3.9	Alluvial						
1456	II	4501	202	412.5	19.0	393.5	29.1	383.4	10.1	37.5	Syenite	21.5	33.5	12.0	9.3	3.4	Eluvial+Alluvial						
1457	II	4307	198	413.7	21.0	392.7	28.5	385.2	7.5	39.2	Syenite	27.0	39.0	12.0	16.8	2.5	Eluvial+Alluvial						
1458	II	4502	200	412.9	21.5	391.4	28.2	384.7	6.7	32.6	Gabbro	29.0	32.0	3.0	17.2	0.8	Eluvial						
1459	II	4533	201	413.0	21.0	392.0	28.8	384.2	7.8	34.2	Gabbro	29.0	34.0	5.0	16.1	0.4	Eluvial						
1460	II	4503	200	414.0	24.7	389.3	24.7	389.3		30.0	Syenite	25.0	30.0	5.0	10.7	2.2	Eluvial						
1461	I	4348		415.1	15.7	399.4	15.7	399.4		26.0	Syenite	18.0	24.0	6.0	8.2	1.8	Eluvial						
1462	I	4349	100	415.0	15.0	400.0	15.0	400.0		25.5	Syenite	15.0	21.0	6.0	21.1	1.0	Eluvial						
1463	I	4350	202	414.6	19.8	394.8	19.8	394.8		22.2	Monzonite	20.0	21.0	1.0	11.7	1.7	Eluvial						
1464	I	4090		409.7	9.0	400.7	13.5	396.2	4.5	18.0	Syenite	13.8	17.8	4.0	14.2	3.5	Eluvial						
1465	I	4091	99	409.4	5.7	403.7	10.0	399.4	4.3	14.0	Syenite												
1466	I	4092	99	409.3	7.3	402.0	16.0	393.3	8.7	21.0	Syenite	7.0	10.0	3.0	11.0	1.8	Alluvial						
1467	I	4093	100	409.2	8.0	401.2	17.8	391.4	9.8	32.0	Syenite	14.0	26.0	12.0	17.3	3.8	Eluvial+Alluvial						
1468	I	4094	96	409.2	10.0	399.2	21.3	387.9	11.3	29.0	Syenite	18.5	28.0	9.5	19.4	6.5	Eluvial+Alluvial						
1469	I	4095	107	409.3	9.0	400.3	27.0	382.3	18.0	32.0	Syenite	16.0	31.0	15.0	17.7	4.4	Eluvial+Alluvial						
1470	I	4096	90	408.8	9.0	399.8	28.7	380.1	19.7	33.0	Syenite	15.0	31.0	16.0	15.2	4.7	Eluvial+Alluvial						
1471	I	4097	94	408.7	9.5	399.2	24.0	384.7	14.5	28.2	Syenite	17.2	28.0	10.8	19.1	4.8	Eluvial+Alluvial						
1472	I	4098	100	408.6	11.0	397.6	29.0	379.6	18.0	34.0	Syenite	14.4	33.0	18.6	19.3	5.8	Eluvial+Alluvial						
1473	I	4099	99	408.3	10.0	398.3	30.0	378.3	20.0	36.0	Syenite	14.3	24.8	10.5	13.3	4.8	Alluvial						
1474	I	4310	100	407.9	10.5	397.4	30.5	377.4	20.0	36.2	Syenite	20.0	36.0	16.0	10.5	2.1	Eluvial+Alluvial						
1475	I	4166	100	408.1	10.0	398.1	30.0	378.1	20.0	36.0	Syenite	19.0	27.0	8.0	12.2	4.9	Alluvial						
1476	I	4165	100	408.4	6.0	402.4	28.0	380.4	22.0	30.0	Syenite	19.0	28.0	9.0	9.7	3.6	Alluvial						
1477	I	4311	202	408.7	10.9	397.8	33.0	375.7	22.1	39.5	Monzonite	28.0	38.0	10.0	17.3	5.1	Eluvial+Alluvial						
1478	I	4312	198	408.9	11.0	397.9	33.4	375.5	22.4	41.0	Monzonite	29.3	39.0	9.7	8.1	3.2	Eluvial+Alluvial						
1479	I	4313	200	408.8	11.0	397.8	32.5	376.3	21.5	40.5	Monzonite	36.0	38.0	2.0	8.9	1.8	Eluvial						
1480	I	4521	200	409.1	12.0	397.1	35.6	373.5	23.6	47.0	Monzonite	29.0	46.0	17.0	12.4	4.7	Eluvial+Alluvial						
1481	I	4522	198	409.0	11.0	398.0	36.0	373.0	25.0	47.0	Monzonite	34.0	43.0	9.0	12.0	3.0	Eluvial+Alluvial						
1482	I	4523	202	409.2	12.9	396.3	32.7	376.5	19.8	38.0	Syenite	31.0	33.0	2.0	3.7	4.3	Alluvial						
1483	I	4402	199	409.3	15.9	393.4	34.8	374.5	18.9	37.0	Syenite												
1484	I	4401	196	409.6	17.5	392.1	33.2	376.4	15.7	39.0	Syenite	30.0	32.0	2.0	3.8	2.8	Alluvial						
1485	I	4347	200	410.6	17.1	393.5	32.8	377.8	15.7	38.7	Syenite	17.1	22.0	4.9	25.6	5.4	Alluvial						
1486	I	4524	197	410.7	17.5	393.2	25.0	385.7	7.5	35.5	Gabbro	17.5	33.5	16.0	12.5	1.9	Eluvial+Alluvial						
1487	I	4525	199	411.5	19.5	392.0	32.5	379.0	13.0	42.0	Gabbro	19.5	38.0	18.5	25.4	3.4	Eluvial+Alluvial						
1488	I	4526	200	411.8	23.0	388.8	34.7	377.1	11.7	42.0	Gabbro	23.0	31.0	8.0	8.4	2.9	Alluvial						
1489	I	4527	199	412.5	21.5	391.0	39.7	372.8	18.2	43.0	Gabbro	22.0	40.0	18.0	15.5	4.8	Alluvial						
1490	I	4528	194	412.5	19.0	393.5	32.6	379.9	13.6	42.0	Gabbro	19.0	33.0	14.0	8.4	4.1	Alluvial						
1491	I	4529	196	412.3	20.4	391.9	27.7	384.6	7.3	40.0	Gabbro	22.0	36.0	14.0	10.7	2.4	Eluvial+Alluvial						
1492	I	4530	194	412.5	20.7	391.8	28.5	384.0	7.8	36.0	Gabbro	21.0	35.0	14.0	15.8	3.1	Eluvial+Alluvial						
1493	I	4531	200	414.0	25.7	388.3	28.5	385.5	2.8	37.0	Gabbro												
1494	I	4532	200	412.7	28.3	384.4	28.3	384.4		35.0	Syenite												
1495	I	4314	199	413.5	26.0	387.5	28.2	385.3	2.2	31.0	Syenite	28.5	30.0	1.5	8.7	1.6	Eluvial						
1496	O	2270		413.1	15.4	397.7	15.4	397.7		16.0	Syenite												
1497	O	1600	400	411.4	14.8	396.6	14.8	396.6		15.0	Syenite												
1498	O	2271	199	410.9	24.5	386.4	24.5	386.4		25.0	Syenite												
1499	O	4086	201	410.3	10.7	399.6	10.7	399.6		24.5	Syenite	14.0	24.5	10.5	6.1	3.3	Eluvial						
1500	O	4087	206	409.6	10.5	399.1	11.0	398.6	0.5	32.0	Monzonite	11.0	30.0	19.0	10.3	1.3	Eluvial						
1501	O	1732	196	409.3	11.5	397.8	16.8	392.5	5.3	24.0	Syenite	16.8	24.0	7.2	7.3	3.0	Eluvial						
1502	O	1733	194	409.2	11.0	398.2	27.0	382.2	16.0	27.5	Syenite	24.0	27.5	3.5	21.7	6.8	Eluvial+Alluvial						
1503	O	4545	108	409.2	10.6	398.6	30.7	378.5	20.1	39.0	Syenite	23.0	37.0	14.0	15.9	3.4	Eluvial+Alluvial						
1504	O	1734	97	409.1	10.0	399.1	31.6	377.5	21.6	37.0	Syenite	22.0	37.0	15.0	13.0	3.6	Eluvial+Alluvial						
1505	O	4544	101	409.3	10.5	398.8	30.0	379.3	19.5	42.0	Syenite	22.0	32.0	10.0	16.9	5.2	Eluvial+Alluvial						
1506	O	1735	97	409.0	9.6	399.4	28.0	381.0	18.4	35.0	Syenite	22.0	31.5	9.5	19.4	5.0	Eluvial+Alluvial						
1507	O	4218	101	408.4	10.3	398.1	27.8	380.6	17.5	33.5	Syenite	18.0	33.0	15.0	21.9	5.7	Eluvial+Alluvial						
1508	O	1736	100	408.6	12.0	396.6	26.2	382.4	14.2	31.0	Syenite	19.0	29.0	10.0	17.0	4.4	Eluvial+Alluvial						
1509	O	4219	96	408.6	11.2	397.4	28.8	379.8	17.6	32.0	Syenite	17.3	31.9	14.6	12.7	3.5	Eluvial+Alluvial						
1510	O	1737	99	409.9	11.5	398.4	30.8	379.1	19.3	37.2	Syenite	18.7	23.5	4.8	16.3	4.1	Alluvial						
1511	O	4220	199	408.2	11.8	396.4	34.0	374.2	22.2	39.0	Syenite	20.7	24.8	4.1	8.7	3.9	Alluvial						
1512	O	4171	205	408.7	11.7	397.0	32.3	376.4	20.6	43.5	Syenite	16.0	22.0	6.0	17.6	7.3	Alluvial						
1513	O	1740	204	407.9	12.0	395.9	34.0	373.9	22.0	46.0	Monzonite	21.0	34.0	13.0	6.5	3.7	Alluvial						
1514	O	4172	203	408.8	12.0	396.8	30.8	378.0	18.8	41.0	Monzonite	27.3	39.0	11.7	11.0	3.0	Eluvial+Alluvial						
1515	O	4173	196	408.4	14.4	394.0	30.5	377.9	16.1	31.0	Monzonite	21.4	23.4	2.0	10.0	3.9	Alluvial						
1516	O	4186	201	409.2	12.5	396.7	38.0	371.2	25.5	41.0	Syenite	32.0	38.0	6.0	2.2	4.5	Alluvial						
1517	O	1744	198	408.8	18.5	390.3	38.0	370.8	19.5	42.0	Syenite	31.0	40.0	9.0	30.8	5.6	Eluvial+Alluvial	31.0	35.0	4.0	60.5	9.8	Alluvial
1518	O	4187	204	408.7	19.3	389.4	34.0	374.7	14.7	40.5	Syenite	39.0	40.5	1.5	15.5	1.1	Eluvial						
1519	O	4283	204	409.6	21.4	388.2	37.1	372.5	15.7	41.5	Syenite	33.2	41.2	8.0	9.9	2.9	Eluvial+Alluvial						
1520	O	4188	202	409.8	21.0	388.8	36.0	373.8	15.0	40.0	Syenite	29.8	38.0	8.2	12.0	4.8	Eluvial+Alluvial						
1521	O	4281	202	411.1	22.5	388.6	37.7	373.4	15.2	41.0	Syenite	32.6	40.7	8.1	15.4	4.2	Eluvial+Alluvial						
1522	O	4280	205	411.5	24.7	386.8	31.7	379.8	7.0	40.8	Gabbro	24.7	39.5	14.8	13.5	1.9	Eluvial+Alluvial						
1523	O	4282	200	411.6	22.0	389.6	34.2	377.4	12.2	42.0	Gabbro	32.1	41.9	9.8	16.7	3.4	Eluvial+Alluvial						
1524	O	4534	210	412.1	23.2	388.9	42.7	369.4	19.5	46.0	Gabbro	41.0	45.5	4.5	16.5	1.1	Eluvial+Alluvial						
1525	O	4537	199	412.6	24.0	388.6	31.7	380.9	7.7	43.0	Gabbro	32.0	41.0	9.0	20.8	0.2	Eluvial						
1526	O	4538	194	412.5	22.0	390.5	28.7	383.8	6.7	43.0	Syenite	26.0	39.0	13.0	26.3	1.2	Eluvial+Alluvial						
1527	O	4539	194	413.1	24.0	389.1	31.2	381.9	7.2	39.0	Syenite	24.0	33.0	9.0	13.0	3.7	Eluvial+Alluvial						
1528	O	4540	202	413.5	28.6	384.9	28.6	384.9		36.0	Syenite	31.5	34.0	2.5	12.8	2.8	Eluvial						
1529	O	4541	200	413.0	28.0	385.0	28.0	385.0		32.0	Syenite												
1530	10	2308		485.9	1.3	484.6	4.5	481.4	3.2	6.2	Syenite	1.3	6.0	4.7	17.2	2.2	Eluvial+Alluvial						
1531	10	2309	195	482.0	0.9	481.1	4.4	477.6	3.5	9.0	Syenite	2.6	8.9	6.3	17.3	1.3	Eluvial+Alluvial						
1532	10	2310	201	478.6	2.4	476.2	4.6	474.0	2.2	7.3	Syenite	4.6	7.1	2.5	18.7	0.9	Eluvial						
1533	10	2311	201	473.8	1.5	472.3	1.5	472.3		4.0	Syenite	1.5	3.9	2.4	13.5	0.7	Eluvial						
1534	10	2312	200	469.7	3.3	466.4	6.8	462.9	3.5	11.4	Syenite	6.8	11.3	4.5	13.9	1.9	Eluvial						
1535	10	2313	196	471.2		471.2	3.0	468.2	3.0	11.3	Syenite	7.0	9.0	2.0	10.0	1.4	Eluvial						
1536	10	2314	200	474.7	1.0	473.7	2.4	472.3	1.4	2.7	Syenite												
1537	10	2315	200	472.8	1.6	471.2	1.6	471.2		4.4	Syenite	1.6	4.4	2.8	13.5	15.5	Eluvial						
1538	10	2316	198	468.5	1.0	467.5	1.0	467.5		1.8	Syenite												
1539	10	2317	200	467.0	1.6	465.4	1.6	465.4		3.8	Syenite	1.6	3.8	2.2	6.6	2.1	Eluvial						
1540	10	2318	405	464.2	10.1	454.1	10.1	454.1		12.8	Syenite												

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1541	10	2319	388	464.3	2.6	461.7	2.6	461.7		3.0	Syenite												
1542	10	1918	264	466.2	3.0	463.2	3.0	463.2		10.2	Syenite												
1543	14	2295		480.0	2.6	477.4	5.5	474.5	2.9	5.9	Syenite												
1544	14	2296	200	483.0	2.1	480.9	5.0	478.0	2.9	5.2	Syenite												
1545	14	2297	170	482.3	2.5	479.8	7.9	474.4	5.4	8.5	Syenite												
1546	14	2298	200	478.8	2.2	476.6	8.1	470.7	5.9	10.4	Syenite												
1547	14	2299	200	475.8	3.0	472.8	3.0	472.8		3.5	Syenite												
1548	14	2300	199	474.1	2.2	471.9	2.2	471.9		3.8	Syenite												
1549	14	2301	245	477.2	0.5	476.7	0.5	476.7		2.5	Syenite												
1550	14	2302	201	476.8	3.0	473.8	4.6	472.2	1.6	5.8	Syenite	3.0	4.6	1.6	9.8	10.0	Alluvial						
1551	14	2303	199	476.0	1.2	474.8	1.2	474.8		1.6	Syenite												
1552	14	2304	196	474.9	1.2	473.7	1.2	473.7		1.7	Syenite												
1553	14	2305	201	475.1	1.6	473.5	1.6	473.5		2.0	Syenite												
1554	14	2306	146	469.6	8.1	461.5	8.1	461.5		8.3	Syenite												
1555	14	2307	368	471.7	1.3	470.4	1.3	470.4		1.5	Syenite												
1556	14	1917	449	471.3	2.7	468.6	2.7	468.6		6.0	Syenite	2.7	4.0	1.3	35.7	1.8	Alluvial						
1557	18	4488		487.7	3.0	484.7	6.2	481.5	3.2	6.2	Syenite												
1558	18	4487	105	486.9	2.0	484.9	8.5	478.4	6.5	8.7	Syenite												
1559	18	4571	101	485.4	8.9	476.5	8.9	476.5		9.0	Syenite												
1560	18	4572	99	484.0	8.8	475.2	8.8	475.2		9.2	Syenite												
1561	18	4573	100	483.0	5.0	478.0	8.8	474.2	3.8	9.0	Syenite												
1562	18	4124	200	481.3	3.0	478.3	6.4	474.9	3.4	8.5	Syenite												
1563	18	4123	97	481.2		481.2	8.3	472.9	8.3	20.3	Syenite												
1564	18	2156	100	482.0	3.0	479.0	5.0	477.0	2.0	6.0	Monzonite												
1565	18	4122	100	483.2	4.5	478.7	8.2	475.0	3.7	11.0	Monzonite	7.9	10.8	2.9	18.1	0.9	Eluvial						
1566	18	2157	101	483.0	4.1	478.9	8.5	474.5	4.4	8.5	Syenite												
1567	18	4121	96	481.6	3.0	478.6	9.4	472.2	6.4	17.0	Syenite	8.0	16.5	8.5	14.2	1.7	Eluvial						
1568	18	2158	105	480.0	4.0	476.0	9.2	470.8	5.2	27.5	Syenite	7.8	21.0	13.2	19.2	1.6	Eluvial						
1569	18	3638	98	478.7	2.0	476.7	7.7	471.0	5.7	28.4	Syenite	9.4	28.4	19.0	27.9	1.8	Eluvial						
1570	18	2159	97	478.2	1.7	476.5	5.5	472.7	3.8	9.6	Syenite	4.7	9.6	4.9	13.0	1.8	Eluvial						
1571	18	3637	103	471.1	1.8	469.3	5.5	465.6	3.7	8.3	Syenite	5.5	7.9	2.4	17.0	2.0	Eluvial						
1572	18	2160	103	477.5	1.0	476.5	5.2	472.3	4.2	5.5	Syenite	4.2	5.3	1.1	13.8	1.4	Alluvial						
1573	18	4120	99	477.5	1.2	476.3	5.6	471.9	4.4	8.2	Syenite	4.0	5.6	1.6	23.4	3.6	Alluvial						
1574	18	2161	104	477.8	1.8	476.0	6.0	471.8	4.2	6.5	Syenite	4.3	6.3	2.0	6.1	1.1	Alluvial						
1575	18	3636	101	476.6	0.9	475.7	5.1	471.5	4.2	10.0	Syenite	3.5	5.1	1.6	13.9	2.0	Eluvial						
1576	18	2162	101	476.1	2.0	474.1	5.8	470.3	3.8	24.5	Syenite	8.3	22.0	13.7	17.4	2.2	Eluvial						
1577	18	3635	113	475.7	3.7	472.0	7.7	468.0	4.0	25.1	Syenite	5.3	22.0	16.7	14.0	2.3	Eluvial+Alluvial						
1578	18	2163	95	476.0	4.8	471.2	14.3	461.7	9.5	27.0	Syenite	6.8	27.0	20.2	19.1	2.3	Eluvial+Alluvial						
1579	18	3634	103	477.0	5.2	471.8	15.0	462.0	9.8	17.7	Syenite	7.0	16.0	9.0	27.7	5.3	Eluvial+Alluvial						
1580	18	2164	96	477.2	4.0	473.2	8.0	469.2	4.0	10.0	Syenite	8.0	10.0	2.0	27.3	3.3	Eluvial						
1581	18	4119	96	478.0	5.0	473.0	8.5	469.5	3.5	9.7	Syenite	8.5	9.5	1.0	8.6	1.7	Eluvial						
1582	18	2165	98	478.6	5.5	473.1	11.2	467.4	5.7	25.0	Syenite	9.0	25.0	16.0	18.5	1.8	Eluvial						
1583	18	4118	99	479.4	7.3	472.1	10.7	468.7	3.4	23.2	Syenite	16.0	20.0	4.0	12.7	1.1	Eluvial						
1584	18	4117	99	478.8	7.6	471.2	8.0	470.8	0.4	9.3	Syenite	8.0	9.1	1.1	12.8	2.2	Eluvial						
1585	18	2166	199	475.8	9.8	466.0	9.8	466.0		10.0	Syenite												
1586	18	2167	193	473.8	5.5	468.3	5.5	468.3		5.7	Syenite												
1587	18	2168	192	476.9	4.7	472.2	5.8	471.1	1.1	6.0	Syenite												
1588	18	2169	206	479.1	3.5	475.6	8.5	470.6	5.0	8.7	Syenite												
1589	18	1916	198	475.9	5.7	470.2	8.6	467.3	2.9	10.5	Syenite	8.6	10.0	1.4	18.8	3.9	Eluvial						
1590	20	1842		470.9	7.0	463.9	7.0	463.9		24.0	Syenite	7.0	19.0	12.0	9.9	2.0	Eluvial						
1591	20	1841	200	469.6	8.4	461.2	8.4	461.2		15.1	Syenite	4.1	11.3	7.2	16.5	2.8	Eluvial+Alluvial						
1592	20	1840	400	465.5	1.5	464.0	1.5	464.0		2.0	Syenite												
1593	20	1839	396	464.1	1.2	462.9	1.2	462.9		3.7	Syenite												
1594	20	1838	200	461.4	1.5	459.9	1.5	459.9		3.5	Monzonite	0.5	1.5	1.0	24.7	4.0	Alluvial						
1595	20	1837	203	462.2	1.5	460.7	1.5	460.7		3.0	Monzonite	1.5	3.0	1.5	14.1	0.4	Eluvial						
1596	20	1836	201	460.2	1.0	459.2	1.0	459.2		3.0	Syenite												
1597	20	1835	197	458.0	1.1	456.9	1.1	456.9		3.0	Syenite												
1598	22	4134		493.1	11.2	481.9	15.0	478.1	3.8	15.7	Syenite												
1599	22	4133	103	490.5	7.0	483.5	13.6	476.9	6.6	17.5	Syenite	13.6	15.5	1.9	21.5	4.7	Eluvial+Alluvial						
1600	22	4127	100	488.2	6.8	481.4	16.9	471.3	10.1	17.2	Syenite	11.8	16.4	4.6	23.0	4.5	Eluvial+Alluvial						
1601	22	4126	100	486.0	3.1	482.9	14.3	471.7	11.2	17.0	Monzonite	12.5	16.8	4.3	14.1	3.3	Eluvial+Alluvial						
1602	22	4125	90	484.2	3.0	481.2	17.8	466.4	14.8	20.2	Syenite	11.0	13.0	2.0	10.1	1.9	Eluvial+Alluvial						
1603	22	2170	108	483.2	2.8	480.4	7.8	475.4	5.0	8.2	Syenite												
1604	22	4116	100	481.8	3.3	478.5	14.4	467.4	11.1	20.5	Syenite	14.4	20.4	6.0	23.7	3.7	Eluvial						
1605	22	2171	102	480.4	3.8	476.6	14.0	466.4	10.2	19.0	Syenite	14.0	18.8	4.8	17.5	2.8	Eluvial						
1606	22	4115	103	478.0	3.2	474.8	11.4	466.6	8.2	28.5	Syenite	11.4	28.0	16.6	18.3	2.0	Eluvial						
1607	22	2172	96	477.0	2.0	475.0	21.7	455.3	19.7	30.0	Syenite	14.0	30.0	16.0	21.2	2.8	Eluvial						
1608	22	3633	96	476.0	2.0	474.0	20.8	455.2	18.8	23.3	Syenite	12.2	23.0	10.8	16.5	2.2	Eluvial+Alluvial						
1609	22	2173	94	475.1	2.4	472.7	16.0	459.1	13.6	30.0	Syenite	12.0	30.0	18.0	17.8	2.3	Eluvial+Alluvial						
1610	22	3632	98	474.8	1.8	473.0	12.0	462.8	10.2	40.5	Syenite		34.0	34.0	18.2	2.1	Eluvial+Alluvial						
1611	22	2174	100	474.7	2.0	472.7	12.9	461.8	10.9	26.0	Monzonite	12.9	26.0	13.1	18.7	2.8	Eluvial						
1612	22	3631	97	475.3	2.0	473.3	10.0	465.3	8.0	21.6	Monzonite	18.0	21.1	3.1	17.6	2.5	Eluvial						
1613	22	2175	102	476.1	1.6	474.5	7.0	469.1	5.4	21.0	Monzonite	7.0	21.0	14.0	24.7	2.5	Eluvial						
1614	22	3630	97	476.1	1.0	475.1	5.3	470.8	4.3	6.4	Monzonite	5.3	6.0	0.7	20.2	1.2	Eluvial						
1615	22	2176	97	475.7	1.2	474.5	4.6	471.1	3.4	4.6	Monzonite												
1616	22	3819	96	474.2	4.4	469.8	4.4	469.8		6.0	Monzonite	4.4	5.9	1.5	22.7	2.1	Eluvial						
1617	22	2177	102	473.2	4.9	468.3	4.9	468.3		9.0	Monzonite	4.9	9.0	4.1	19.1	1.3	Eluvial						
1618	22	3629	83	471.8	6.4	465.4	16.5	455.3	10.1	19.2	Monzonite	14.0	18.5	4.5	30.4	2.7	Eluvial+Alluvial						
1619	22	2178	109	470.3	4.2	466.1	15.0	455.3	10.8	16.3	Monzonite	5.8	16.2	10.4	41.8	6.7	Eluvial+Alluvial	5.9	7.1	1.2	106.9	14.3	Alluvial
1620	22	3628	106	468.7	5.1	463.6	9.5	459.2	4.4	21.0	Monzonite	5.1	17.0	11.9	10.1	2.2	Eluvial+Alluvial						
1621	22	2179	97	467.3	3.2	464.1	3.2	464.1		18.3	Monzonite	3.2	18.3	15.1	21.0	2.2	Eluvial						
1622	22	3627	106	468.0	7.0	461.0	7.0	461.0		22.4	Syenite	7.0	18.0	11.0	23.1	3.4	Eluvial+Alluvial						
1623	22	2180	100	469.5	6.9	462.6	6.9	462.6		18.5	Monzonite	6.9	18.5	11.6	20.7	1.9	Eluvial						
1624	22	3626	171	472.2	10.0	462.2	10.0	462.2		30.2	Monzonite	10.0	29.7	19.7	25.6	0.9	Eluvial						
1625	22	2181	168	471.1	6.5	464.6	6.5	464.6		17.2	Monzonite	6.5	17.2	10.7	34.5	1.2	Eluvial						
1626	22	3625	212	473.1	3.7	469.4	3.7	469.4		6.0	Monzonite	3.7	5.7	2.0	17.1	0.9	Eluvial						
1627	22	3818	95	474.2	4.7	469.5	4.7	469.5		8.8	Monzonite	4.7	8.7	4.0	22.0	2.0	Eluvial						
1628	22	2182	90	474.7	6.0	468.7	6.8	467.9	0.8	15.0	Syenite	11.0	13.0	2.0	15.1	0.9	Eluvial						
1629	22	4128	92	474.5	4.8	469.7	8.8	465.7	4.0	15.0	Monzonite	9.0	10.5	1.5	19.0	1.0	Eluvial						
1630	22	2183	118	472.8	8.1	464.7	13.8	459.0	5.7	24.0	Syenite	8.1	24.0	15.9	17.4	1.9	Eluvial+Alluvial						
1631	22	4129	78	471.7	4.1	467.6	9.5	462.2	5.4	23.7	Monzonite	9.9	23.6	13.7	21.1	1.2	Eluvial						
1632	22	1915	118	470.0	6.1	463.9	15.4	454.6	9.3	24.1	Syenite	12.0	21.0	9.0	25.1	3.5	Eluvial+Alluvial	16.3	16.9	0.6	76.8	16.8	Eluvial
1633	22	4130	88	468.8	6.0	462.8	10.0	458.8	4.0	19.2	Syenite	6.0	19.0	13.0	16.2	4.1	Eluvial+Alluvial						
1634	22	4229	104	466.9	9.8	457.1	11.8	455.1	2.0	37.0	Syenite	9.8	29.0	19.2	14.9	3.2	Eluvial+Alluvial						
1635	22	4230	98	466.3	8.0	458.3	12.4	453.9	4.4	36.0	Syenite	8.0	18.0	10.0	6.2	3.8	Eluvial+Alluvial						
1636	22	4231	100	466.4	9.0	457.4	9.0	457.4		26.0	Syenite	9.0	19.0	10.0	17.2	2.9	Eluvial						
1637	24	4570		508.5	9.0	499.5	16.5	492.0	7.5	16.5	Granite												
1638	24	4569	97	506.1	11.1	495.0	25.4	480.7	14.3	26.0	Granite												
1639	24	4568	103	503.9	10.2	493.7	23.2	480.7	13.0	24.0	Granite												
1640	24	4567	99	500.6	8.0	492.6	23.6	477.0	15.6	23.6	Granite												
1641	24	4499	99	486.6	15.5	471.1	19.8	466.8	4.3	19.8	Syenite												
1642	24	4494	105	492.9	11.0	481.9	15.8	477.1	4.8	15.8	Syenite												
1643	24	4493	96	490.0	8.1	481.9	15.0	475.0	6.9	15.0	Syenite												
1644	24	4492	99	487.0	4.3	482.7	12.9	474.1	8.6	12.9	Syenite												
1645	24	4491	103	484.5	4.0	480.5	10.2	474.3	6.2	10.2	Syenite												
1646	24	4490	97	481.8	2.6	479.2	8.3	473.5	5.7	8.3	Syenite												
1647	24	2184	92	481.1	4.0	477.1	6.3	474.8	2.3	7.0	Syenite												
1648	24	4489	110	480.1	2.8	477.3	5.5	474.6	2.7	6.0	Syenite												
1649	24	2185	91	479.0	1.7	477.3	19.4	459.6	17.7	22.5	Syenite	18.0	22.5	4.5	20.5	2.7	Eluvial+Alluvial						
1650	24	3624	97	477.8	4.9	472.9	13.3	464.5	8.4	16.0	Syenite	11.0	15.2	4.2	18.8	2.7	Eluvial+Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1651	24	2186	89	476.3	1.3	475.0	20.7	455.6	19.4	27.0	Syenite	19.0	27.0	8.0	14.6	1.2	Eluvial+Alluvial						
1652	24	3623	92	475.2	3.1	472.1	23.5	451.7	20.4	24.3	Monzonite	14.8	23.5	8.7	20.9	3.8	Alluvial						
1653	24	2187	98	474.1	4.3	469.8	15.0	459.1	10.7	17.6	Syenite	5.5	17.5	12.0	20.1	2.5	Eluvial+Alluvial						
1654	24	3622	109	474.0	3.0	471.0	11.4	462.6	8.4	21.0	Syenite	11.4	20.1	8.7	13.5	1.1	Eluvial						
1655	24	2188	93	472.3	3.9	468.4	9.0	463.3	5.1	28.5	Syenite	7.7	28.5	20.8	16.7	1.3	Eluvial+Alluvial						
1656	24	3621	97	472.4	5.0	467.4	10.2	462.2	5.2	18.4	Syenite	9.0	18.0	9.0	14.7	1.4	Eluvial+Alluvial						
1657	24	2189	100	473.2	3.0	470.2	18.8	454.4	15.8	24.0	Syenite	18.8	22.0	3.2	19.5	0.4	Eluvial						
1658	24	3620	104	474.0	2.7	471.3	13.6	460.4	10.9	21.4	Monzonite	7.2	20.0	12.8	23.6	2.9	Eluvial+Alluvial						
1659	24	2190	97	474.2	3.0	471.2	4.0	470.2	1.0	16.0	Monzonite	4.0	16.0	12.0	19.3	1.6	Eluvial						
1660	24	3619	92	473.7	2.0	471.7	7.2	466.5	5.2	20.8	Monzonite	7.0	17.8	10.8	23.9	1.8	Eluvial						
1661	24	2191	105	472.3	4.1	468.2	4.1	468.2		7.0	Monzonite	4.1	6.7	2.6	15.8	1.0	Eluvial						
1662	24	3618	97	469.8	3.0	466.8	3.0	466.8		5.5	Monzonite	3.0	5.0	2.0	12.7	0.9	Eluvial						
1663	24	2192	107	467.5	4.7	462.8	6.7	460.8	2.0	24.2	Monzonite	11.5	24.1	12.6	20.3	0.7	Eluvial						
1664	24	3617	89	465.2	5.0	460.2	14.5	450.7	9.5	19.0	Monzonite	8.0	17.0	9.0	38.8	4.6	Eluvial+Alluvial	12.1	14.6	2.5	68.0	11.1	Alluvial
1665	24	2193	102	462.7	5.1	457.6	6.9	455.8	1.8	20.5	Monzonite	6.9	20.5	13.6	17.4	1.6	Eluvial						
1666	24	3616	220	460.7	6.0	454.7	6.0	454.7		16.2	Syenite	6.0	15.4	9.4	17.1	2.6	Eluvial						
1667	24	2194	99	460.8	9.1	451.7	9.1	451.7		19.0	Syenite	9.1	17.0	7.9	18.7	2.1	Eluvial						
1668	24	3615	107	461.7	7.9	453.8	7.9	453.8		13.0	Syenite	7.9	10.0	2.1	7.1	0.4	Eluvial						
1669	24	3614	107	462.8	9.0	453.8	9.0	453.8		14.0	Monzonite	9.0	13.1	4.1	26.8	2.0	Eluvial						
1670	24	3613	95	462.7	9.3	453.4	9.3	453.4		12.6	Monzonite	9.3	12.0	2.7	13.8	1.4	Eluvial						
1671	24	2195	82	463.5	9.0	454.5	9.0	454.5		28.5	Monzonite	9.0	28.5	19.5	22.9	1.8	Eluvial						
1672	24	3817	94	465.0	14.0	451.0	14.0	451.0		20.0	Syenite	14.0	18.0	4.0	15.6	2.6	Eluvial						
1673	24	3612	94	466.9	10.0	456.9	10.0	456.9		26.6	Syenite	10.0	26.0	16.0	20.1	2.2	Eluvial						
1674	24	2196	203	466.7	6.9	459.8	6.9	459.8		16.4	Syenite	6.9	16.2	9.3	25.5	1.8	Eluvial						
1675	24	4131	101	466.0	6.0	460.0	6.0	460.0		8.2	Syenite	6.0	8.0	2.0	0.8	0.6	Eluvial						
1676	24	3611	97	464.8	6.1	458.7	6.1	458.7		15.5	Monzonite	6.1	14.5	8.4	20.7	1.0	Eluvial						
1677	24	3610	100	464.4	8.0	456.4	8.0	456.4		24.6	Monzonite	8.0	23.8	15.8	19.7	1.0	Eluvial						
1678	24	1914	103	462.8	9.0	453.8	9.0	453.8		21.0	Monzonite	9.0	21.0	12.0	29.4	1.1	Eluvial						
1679	24	3609	95	460.8	9.9	450.9	14.6	446.2	4.7	27.9	Monzonite	9.9	27.3	17.4	27.6	2.4	Eluvial+Alluvial	11.8	14.7	2.9	80.5	10.1	Alluvial
1680	24	1833	97	459.0	8.3	450.7	11.5	447.5	3.2	22.0	Syenite	8.3	22.0	13.7	13.0	1.4	Eluvial+Alluvial						
1681	24	3608	93	457.9	8.0	449.9	8.0	449.9		31.0	Syenite	8.0	22.0	14.0	16.5	1.4	Eluvial						
1682	24	1832	103	457.1	7.2	449.9	7.2	449.9		26.0	Syenite	7.2	24.0	16.8	16.7	1.5	Eluvial						
1683	24	3820	195	459.3	10.0	449.3	10.0	449.3		20.0	Monzonite	12.0	20.0	8.0	26.5	2.0	Eluvial	18.3	20.2	2.0	59.9	5.5	Eluvial
1684	24	1831	204	462.0	10.8	451.2	10.8	451.2		20.0	Monzonite	10.8	20.0	9.2	20.2	0.8	Eluvial						
1685	24	3821	200	463.7	7.8	455.9	7.8	455.9		24.1	Monzonite	7.8	24.0	16.2	21.8	0.8	Eluvial						
1686	24	1830	198	463.2	5.0	458.2	5.0	458.2		16.0	Syenite	9.0	13.0	4.0	18.3	0.9	Eluvial						
1687	24	3822	103	462.9	4.1	458.8	7.3	455.6	3.2	11.0	Syenite	7.3	10.0	2.7	23.3	0.8	Eluvial						
1688	24	1829	100	462.8	3.0	459.8	6.6	456.2	3.6	12.0	Monzonite	8.2	12.0	3.8	19.3	0.9	Eluvial						
1689	24	3823	93	463.2	2.9	460.3	2.9	460.3		19.0	Monzonite	3.0	16.0	13.0	20.6	1.0	Eluvial						
1690	24	1828	105	463.7	3.0	460.7	3.0	460.7		18.0	Monzonite	3.0	18.0	15.0	18.3	0.5	Eluvial						
1691	24	3825	95	464.4	1.5	462.9	1.5	462.9		7.6	Syenite	1.5	5.5	4.0	21.1	1.1	Eluvial						
1692	24	1827	95	464.9	3.6	461.3	12.2	452.7	8.6	21.0	Syenite	13.0	21.0	8.0	14.2	1.1	Eluvial						
1693	24	3824	98	465.5	5.2	460.3	5.2	460.3		22.0	Syenite	5.2	22.0	16.8	16.5	0.6	Eluvial						
1694	24	1826	402	465.4	6.2	459.2	6.2	459.2		17.0	Monzonite	6.2	17.0	10.8	23.9	1.3	Eluvial						
1695	24	1825	402	452.7	3.4	449.3	3.4	449.3		5.0	Syenite	0.4	3.4	3.0	24.0	1.3	Alluvial						
1696	30	4114		484.7	5.0	479.7	16.0	468.7	11.0	17.0	Syenite												
1697	30	4113	101	483.0	4.3	478.7	10.6	472.4	6.3	12.2	Syenite												
1698	30	4112	99	481.3	3.2	478.1	15.9	465.4	12.7	18.3	Syenite	13.0	15.9	2.9	21.0	4.2	Alluvial						
1699	30	2197	199	479.8	4.7	475.1	21.8	458.0	17.1	23.5	Syenite	20.6	23.4	2.8	26.2	4.9	Eluvial+Alluvial						
1700	30	3816	101	479.3	4.0	475.3	17.8	461.5	13.8	19.0	Syenite	8.4	10.4	2.0	8.9	1.4	Alluvial						
1701	30	2198	100	479.5	2.0	477.5	21.4	458.1	19.4	29.0	Syenite	20.0	29.0	9.0	15.7	2.8	Eluvial+Alluvial						
1702	30	3815	95	478.2	2.1	476.1	22.0	456.2	19.9	23.7	Syenite	18.0	23.6	5.6	12.6	2.5	Eluvial+Alluvial						
1703	30	2199	107	476.8	5.4	471.4	20.8	456.0	15.4	23.5	Monzonite	11.5	23.5	12.0	12.6	2.8	Eluvial+Alluvial						
1704	30	3814	97	475.8	3.0	472.8	27.6	448.2	24.6	28.8	Syenite	24.0	28.8	4.8	19.3	5.2	Eluvial+Alluvial						
1705	30	2200	99	473.1	6.0	467.1	10.8	462.3	4.8	12.2	Syenite	7.0	11.0	4.0	13.4	2.0	Eluvial+Alluvial						
1706	30	3813	95	471.1	8.0	463.1	18.0	453.1	10.0	22.5	Syenite	14.0	22.4	8.4	11.0	2.4	Eluvial+Alluvial						
1707	30	3607	96	468.4	6.8	461.6	21.1	447.3	14.3	23.7	Syenite	16.3	21.3	5.0	26.2	6.5	Alluvial						
1708	30	3606	102	465.8	5.4	460.4	11.2	454.6	5.8	13.7	Syenite	7.0	9.0	2.0	12.8	2.0	Alluvial						
1709	30	2201	102	463.2	3.7	459.5	11.1	452.1	7.4	13.5	Syenite	7.0	20.0	13.0	15.6	1.7	Eluvial+Alluvial						
1710	30	3605	83	463.0	2.3	460.7	18.3	444.7	16.0	23.0	Syenite	12.0	20.0	8.0	36.2	6.0	Eluvial+Alluvial	15.9	18.3	2.4	73.0	13.5	Alluvial
1711	30	2202	114	462.3	4.0	458.3	17.0	445.3	13.0	17.0	Monzonite	8.0	16.9	8.9	27.4	5.1	Alluvial						
1712	30	3604	108	461.1	4.7	456.4	16.3	444.8	11.6	17.8	Syenite	10.7	16.3	5.6	38.1	4.8	Eluvial+Alluvial	13.4	16.2	2.8	54.0	5.9	Alluvial
1713	30	2203	95	458.9	4.8	454.1	9.8	449.1	5.0	14.1	Monzonite	5.0	14.0	9.0	15.9	1.8	Eluvial+Alluvial						
1714	30	3603	108	457.5	0.5	457.0	2.3	455.2	1.8	6.5	Monzonite	2.3	6.1	3.8	21.9	2.9	Eluvial						
1715	30	2204	92	456.7	3.0	453.7	3.0	453.7		10.0	Monzonite	3.0	10.0	7.0	22.6	0.8	Eluvial						
1716	30	3602	106	456.0	3.8	452.2	3.8	452.2		7.6	Monzonite	6.0	7.2	1.2	12.1	0.9	Eluvial						
1717	30	2205	95	455.0	4.0	451.0	11.9	443.1	7.9	13.5	Monzonite	4.0	13.5	9.5	53.1	7.3	Eluvial+Alluvial	9.9	12.0	2.1	135.6	19.6	Alluvial
1718	30	3601	98	453.9	3.2	450.7	10.8	443.1	7.6	18.9	Monzonite	3.7	17.8	14.1	35.9	4.8	Eluvial+Alluvial	6.9	10.9	4.0	87.4	13.3	Alluvial
1719	30	2206	109	452.2	4.8	447.4	4.8	447.4		17.0	Monzonite	4.8	17.0	12.2	23.8	0.9	Eluvial						
1720	30	3600	99	451.7	3.8	447.9	3.8	447.9		25.8	Monzonite	3.8	20.0	16.2	23.7	2.0	Eluvial						
1721	30	2207	103	452.3	2.8	449.5	2.8	449.5		11.2	Monzonite	9.0	11.0	2.0	27.9	2.6	Eluvial						
1722	30	3599	100	452.4	4.5	447.9	4.5	447.9		11.6	Monzonite	4.5	11.0	6.5	20.3	1.4	Eluvial						
1723	30	2208	98	452.4	3.0	449.4	3.0	449.4		11.0	Monzonite	3.0	11.0	8.0	18.3	1.0	Eluvial						
1724	30	3598	97	452.8	2.3	450.5	2.3	450.5		18.6	Syenite	2.3	17.5	15.2	17.2	1.1	Eluvial						
1725	30	2209	102	453.0	3.8	449.2	3.8	449.2		25.0	Syenite	3.8	25.0	21.2	16.9	2.0	Eluvial						
1726	30	3597	97	452.2	2.2	450.0	2.2	450.0		23.9	Syenite	3.9	20.0	16.1	20.1	1.9	Eluvial						
1727	30	3596	96	452.5	3.7	448.8	3.7	448.8		24.0	Syenite	3.7	20.0	16.3	19.2	1.8	Eluvial						
1728	30	3595	104	453.3	4.3	449.0	4.3	449.0		10.7	Monzonite	4.3	10.2	5.9	15.2	1.7	Eluvial						
1729	30	2210	103	454.8	2.8	452.0	2.8	452.0		2.4	Monzonite	2.8	6.8	4.0	17.5	1.9	Eluvial						
1730	30	3594	94	454.0	1.2	452.8	1.2	452.8		2.4	Syenite	0.4	2.2	1.8	11.0	1.3	Eluvial+Alluvial						
1731	30	1913	103	454.0	1.0	453.0	1.0	453.0		3.0	Syenite	1.0	3.0	2.0	15.7	1.9	Eluvial						
1732	30	3593	145	451.8	2.1	449.7	2.1	449.7		12.0	Syenite	2.1	11.7	9.6	15.5	1.8	Eluvial						
1733	30	3592	96	450.7	1.2	449.5	1.2	449.5		2.8	Syenite	1.3	2.8	1.5	13.6	0.9	Eluvial						
1734	30	3591	104	450.1	2.2	447.9	2.2	447.9		11.0	Syenite	4.0	10.0	6.0	13.7	1.2	Eluvial						
1735	30	3590	98	449.2	3.3	445.9	10.8	438.4	7.5	18.5	Monzonite	3.3	18.0	14.7	19.0	1.0	Alluvial						
1736	30	3589	100	449.0	3.0	446.0	5.2	443.8	2.2	9.3	Monzonite	3.0	9.0	6.0	30.9	4.7	Alluvial	4.2	5.4	1.2	66.3	12.5	Alluvial
1737	30	3588	100	448.7	2.9	445.8	2.9	445.8		7.5	Monzonite	2.9	6.6	3.7	17.5	1.6	Eluvial						
1738	30	3587	96	449.1	3.0	446.1	3.0	446.1		11.0	Monzonite	3.0	9.7	6.7	24.9	1.8	Eluvial						
1739	30	3586	98	450.0	2.8	447.2	2.8	447.2		19.0	Monzonite	2.8	18.8	16.0	20.1	0.7	Eluvial						
1740	30	3585	97	450.3	3.3	447.0	3.3	447.0		13.0	Monzonite	3.3	12.5	9.2	19.2	0.9	Eluvial						
1741	30	3584	101	451.0	3.1	447.9	3.1	447.9		14.0	Monzonite	3.1	13.8	10.7	18.0	0.8	Eluvial						
1742	30	3583	103	452.0	3.9	448.1	3.9	448.1		14.0	Syenite	3.9	13.3	9.4	13.5	1.4	Eluvial						
1743	30	3582	98	452.7	4.0	448.7	4.0	448.7		15.9	Syenite	4.0	15.3	11.3	10.7	2.0	Eluvial						
1744	30	3581	98	453.5	4.1	449.4	4.1	449.4		16.0	Syenite	4.1	14.0	9.9	10.7	2.5	Eluvial						
1745	30	3580		454.1	2.8	451.3	2.8	451.3		20.0	Syenite	2.8	18.0	15.2	13.8	2.5	Eluvial						
1746	30	3579	103	454.8	4.7	450.1	4.7	450.1		21.7	Syenite	4.7	21.0	16.3	12.2	2.4	Eluvial						
1747	30	3578	97	455.2	7.0	448.2	9.3	445.9	2.3	33.5	Syenite	7.0	28.0	21.0	15.4	2.5	Eluvial+Alluvial						
1748	30	3577	101	455.7	7.0	448.7	10.7	445.0	3.7	34.5	Syenite	9.2	20.0	10.8	30.6	4.8	Eluvial+Alluvial						
1749	30	3576	98	455.0	7.3	447.7	9.2	445.8	1.9	25.5	Monzonite	7.3	24.6	17.3	23.4	2.2	Eluvial+Alluvial						
1750	30	3575	99	453.7	4.0	449.7	4.0	449.7		17.0	Monzonite	4.0	17.0	13.0	18.0	2.5	Eluvial						
1751	30	4157	454	448.8	2.5	446.3	2.5	446.3		9.2	Syenite												
1752	32	4228		454.3	3.3	451.0	3.5	450.8	0.2	8.5	Monzonite	3.5	8.4	4.9	15.9	2.3	Eluvial						
1753	32	1824	197	454.7	3.6	451.1	5.5	449.2	1.9	8.0	Syenite	5.5	8.0	2.5	14.3	1.6	Eluvial						
1754	32	1823	206	449.6	2.9	446.7	2.9	446.7		5.0	Syenite	2.6	5.0	2.4	10.4	0.3	Eluvial						
1755	32	1822	197	445.2	4.5	440.7	4.5	440.7		6.5	Syenite	2.9	4.5	1.6	78.7	12.3	Alluvial	3.0	4.7	1.7	77.5	12.1	Alluvial
1756	32	1821	195	443.0	3.8	439.2	3.8	439.2		9.0	Syenite	3.8	9.0	5.2	19.4	2.0	Eluvial						
1757	32	1820	206	444.0	4.8	439.2	4.8	439.2		8.0	Syenite	4.8	8.0	3.2	11.4	1.5	Eluvial						
1758	32	4155	202	444.6	3.5	441.1	3.5	441.1		9.2	Syenite	3.5	9.0	5.5	11.0	1.5	Eluvial						
1759	32	1819	191	444.5	3.0	441.5	3.0	441.5		15.0	Monzonite	3.0	9.0	6.0	23.3	3.1	Eluvial						
1760	32	1818	196	446.6	5.7	440.9	8.1	438.5	2.4	26.0	Syenite	5.7	12.0	6.3	34.1	4.6	Eluvial+Alluvial	6.2	8.0	1.8	69.1	11.2	Alluvial

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1761	32	1817	202	448.3	3.4	444.9	3.4	444.9		13.5	Syenite	3.4	5.4	2.0	29.1	3.4	Eluvial						
1762	32	1816	202	445.7	2.7	443.0	2.7	443.0		6.5	Syenite	2.8	4.0	1.2	7.6	1.5	Eluvial						
1763	32	4156	208	445.8	3.0	442.8	3.0	442.8		16.2	Syenite	3.0	12.0	9.0	13.3	1.2	Eluvial						
1764	32	1815	194	447.3	3.0	444.3	3.0	444.3		16.0	Monzonite	3.0	16.0	13.0	16.7	3.1	Eluvial						
1765	34	4486		493.3	2.5	490.8	13.3	480.0	10.8	13.3	Hornfels												
1766	34	4485	101	490.5	5.5	485.0	15.0	475.5	9.5	15.3	Hornfels												
1767	34	4484	96	487.2	5.6	481.6	15.6	471.6	10.0	16.0	Hornfels												
1768	34	4483	101	484.9	5.5	479.4	12.3	472.6	6.8	12.7	Hornfels												
1769	34	4482	101	483.2	4.0	479.2	10.0	473.2	6.0	10.3	Hornfels												
1770	34	4111	89	482.2	4.2	478.0	10.0	472.2	5.8	10.5	Syenite												
1771	34	4110	116	481.2	4.0	477.2	9.5	471.7	5.5	9.7	Syenite												
1772	34	4109	107	480.3	3.0	477.3	8.1	472.2	5.1	10.0	Syenite												
1773	34	2028	301	478.1	2.9	475.2	7.9	470.2	5.0	9.0	Syenite												
1774	34	3574	97	477.1	2.1	475.0	18.4	458.7	16.3	22.5	Syenite	10.7	21.0	10.3	22.6	4.3	Eluvial+Alluvial	14.6	15.6	1.0	50.2	8.2	Alluvial
1775	34	2027	103	475.9	4.0	471.9	7.2	468.7	3.2	12.8	Syenite	10.0	12.6	2.6	12.7	1.2	Alluvial						
1776	34	3573	102	474.9	1.8	473.1	3.1	471.8	1.3	7.5	Syenite	3.0	6.5	3.5	12.9	2.4	Alluvial						
1777	34	2026	96	470.9	1.0	469.9	4.0	466.9	3.0	18.3	Monzonite	6.0	8.0	2.0	13.9	1.6	Eluvial						
1778	34	3572	113	467.8	1.1	466.7	1.1	466.7		10.5	Monzonite	1.1	9.7	8.6	18.1	1.8	Eluvial						
1779	34	2025	92	467.1	1.0	466.1	1.0	466.1		10.4	Syenite	1.0	3.0	2.0	12.8	1.8	Eluvial						
1780	34	3571	97	465.7	2.8	462.9	2.8	462.9		13.5	Monzonite	2.8	12.0	9.2	20.6	2.4	Eluvial						
1781	34	3570	94	462.7	1.5	461.2	1.5	461.2		25.3	Syenite	1.5	18.0	16.5	17.0	1.5	Eluvial						
1782	34	3569	98	460.0	1.9	458.1	1.9	458.1		24.0	Monzonite	1.9	15.0	13.1	21.0	0.8	Eluvial						
1783	34	2024	106	457.2	2.0	455.2	8.0	449.2	6.0	21.2	Syenite	16.0	21.0	5.0	27.5	1.5	Eluvial						
1784	34	3568	100	454.6	3.2	451.4	10.2	444.4	7.0	14.0	Syenite	10.2	13.5	3.3	13.7	1.0	Eluvial						
1785	34	2023	99	452.8	1.6	451.2	5.9	446.9	4.3	16.9	Syenite	11.0	15.0	4.0	15.6	0.8	Eluvial						
1786	34	3567	105	451.9	1.3	450.6	12.6	439.3	11.3	16.1	Monzonite	9.3	12.5	3.2	30.9	5.4	Alluvial	10.1	11.1	1.0	54.7	10.0	Alluvial
1787	34	2022	94	451.2	1.4	449.8	12.0	439.2	10.6	12.3	Monzonite	6.0	12.0	6.0	36.7	6.7	Alluvial						
1788	34	3566	98	450.1	1.0	449.1	13.9	436.2	12.9	28.7	Syenite	9.2	24.0	14.8	26.3	3.4	Eluvial+Alluvial	11.1	13.8	2.7	64.7	11.8	Alluvial
1789	34	2021	93	449.0	1.7	447.3	14.0	435.0	12.3	20.3	Syenite	7.8	18.0	10.2	28.6	4.1	Eluvial+Alluvial						
1790	34	3565	104	448.2	1.0	447.2	14.1	434.1	13.1	24.0	Monzonite	7.0	24.0	17.0	29.4	2.9	Eluvial+Alluvial	11.0	14.0	3.0	59.0	9.3	Alluvial
1791	34	2020	101	447.7	2.0	445.7	9.0	438.7	7.0	21.0	Monzonite	3.0	9.2	6.2	24.7	6.5	Alluvial						
1792	34	3564	94	447.4	1.7	445.7	1.7	445.7		5.5	Monzonite	2.0	4.5	2.5	18.2	0.8	Eluvial						
1793	34	2019	101	446.9	2.0	444.9	2.0	444.9		13.6	Monzonite	5.0	9.0	4.0	15.4	0.4	Eluvial						
1794	34	3802	140	446.4	3.8	442.6	7.4	439.0	3.6	18.5	Monzonite	3.8	14.4	10.6	41.7	5.4	Eluvial+Alluvial	3.8	7.3	3.5	87.1	13.2	Alluvial
1795	34	2018	96	446.4	5.0	441.4	5.4	441.0	0.4	21.0	Monzonite	5.0	21.0	16.0	19.5	1.3	Eluvial+Alluvial						
1796	34	3563	95	446.4	4.1	442.3	5.1	441.3	1.0	21.5	Monzonite	4.1	24.6	20.5	22.3	1.4	Eluvial+Alluvial	4.1	5.1	1.0	76.8	12.3	Alluvial
1797	34	3562	96	446.4	3.4	443.0	3.4	443.0		22.5	Monzonite	3.4	21.6	18.2	23.8	2.2	Eluvial	8.1	10.0	1.9	52.1	3.9	Eluvial
1798	34	3561	95	446.7	3.4	443.3	3.4	443.3		16.8	Syenite	3.4	15.0	11.6	12.0	1.5	Eluvial						
1799	34	2017	94	446.9	2.7	444.2	2.7	444.2		7.4	Monzonite	2.7	7.4	4.7	27.3	1.7	Eluvial						
1800	34	3560	95	447.7	3.3	444.4	3.3	444.4		14.0	Syenite	3.3	13.0	9.7	17.6	1.1	Eluvial						
1801	34	3559	94	449.3	3.5	445.8	3.5	445.8		20.0	Syenite	3.5	19.0	15.5	16.5	1.7	Eluvial						
1802	34	3558	94	451.3	3.1	448.2	3.1	448.2		13.5	Monzonite	3.1	12.0	8.9	16.8	2.7	Eluvial						
1803	34	1912	96	452.9	2.5	450.4	2.5	450.4		11.1	Monzonite	2.5	11.0	8.5	24.9	2.2	Eluvial						
1804	34	3801	93	453.7	4.0	449.7	4.0	449.7		9.0	Monzonite	4.0	9.0	5.0	28.5	0.6	Eluvial						
1805	34	3557	92	453.8	4.0	449.8	4.0	449.8		16.0	Monzonite	4.0	12.0	8.0	18.1	0.9	Eluvial	10.1	12.1	2.0	77.4	0.8	Eluvial
1806	34	3556	96	453.5	2.2	451.3	2.2	451.3		4.5	Monzonite	2.0	3.7	1.7	19.4	0.6	Eluvial						
1807	36	3974		452.0	2.0	450.0	2.0	450.0		7.0	Monzonite	2.0	6.5	4.5	20.3	1.3	Eluvial						
1808	36	3973	108	449.2	3.0	446.2	3.0	446.2		7.0	Syenite	3.0	5.5	2.5	9.6	1.9	Eluvial						
1809	36	1814	92	446.7	4.5	442.2	6.6	440.1	2.1	18.0	Syenite	4.5	18.0	13.5	25.5	1.8	Eluvial+Alluvial	6.1	6.6	0.5	108.2	14.3	Alluvial
1810	36	3972	98	444.7	6.0	438.7	7.5	437.2	1.5	22.0	Monzonite	6.0	22.0	16.0	31.2	2.6	Eluvial+Alluvial	6.0	7.3	1.3	55.0	4.8	Alluvial
1811	36	1813	98	442.3	3.5	438.8	5.2	437.1	1.7	7.0	Monzonite	3.5	7.0	3.5	57.6	7.9	Eluvial+Alluvial	4.1	5.8	1.7	88.5	15.0	Alluvial
1812	36	3971	100	440.4	4.0	436.4	4.0	436.4		19.0	Monzonite	4.0	19.0	15.0	22.4	1.7	Eluvial+Alluvial						
1813	36	3970	108	438.8	3.9	434.9	3.9	434.9		9.0	Monzonite	4.0	8.0	4.0	19.7	1.6	Eluvial						
1814	36	3969	92	438.6	4.0	434.6	4.0	434.6		14.5	Syenite	4.0	10.9	6.9	10.9	2.0	Eluvial						
1815	36	1812	102	438.8	4.7	434.1	4.7	434.1		7.5	Monzonite	4.7	7.5	2.8	12.8	1.5	Eluvial						
1816	36	3968	98	439.2	6.0	433.2	6.0	433.2		14.0	Monzonite	6.0	14.0	8.0	16.1	2.5	Eluvial						
1817	36	1811	102	438.9	3.0	435.9	3.4	435.5	0.4	8.0	Syenite	3.0	5.0	2.0	41.9	4.0	Eluvial+Alluvial	3.4	4.0	0.6	110.7	16.1	Alluvial
1818	36	3967	98	439.2	2.8	436.4	2.8	436.4		9.5	Monzonite	2.8	9.0	6.2	17.9	2.0	Eluvial						
1819	36	1810	104	440.1	2.9	437.2	4.8	435.3	1.9	11.0	Syenite	2.9	11.0	8.1	44.0	7.3	Eluvial+Alluvial	2.8	5.2	2.4	114.0	21.2	Alluvial
1820	36	3966	96	441.1	1.3	439.8	1.3	439.8		10.5	Monzonite	1.3	10.0	8.7	22.9	2.6	Eluvial						
1821	36	1809	100	442.0	2.6	439.4	4.0	438.0	1.4	13.0	Syenite	2.6	13.0	10.4	27.6	2.9	Eluvial+Alluvial	2.9	3.5	0.6	75.0	12.7	Alluvial
1822	36	3965	110	443.6	2.6	441.0	2.6	441.0		19.5	Syenite	2.6	19.0	16.4	17.0	2.3	Eluvial+Alluvial						
1823	36	1808	96	444.4	1.8	442.6	1.8	442.6		8.5	Syenite	1.9	8.5	6.6	22.0	2.8	Eluvial						
1824	36	3964	92	443.7	2.2	441.5	2.2	441.5		15.0	Syenite	2.2	14.6	12.4	18.9	2.1	Eluvial						
1825	36	3963	108	444.5	5.0	439.5	5.0	439.5		25.0	Syenite	5.0	25.0	20.0	18.7	2.2	Eluvial						
1826	36	3962	102	446.4	3.0	443.4	3.0	443.4		26.0	Syenite	3.0	23.0	20.0	16.7	2.5	Eluvial						
1827	36	1807	95	449.6	2.5	447.1	2.5	447.1		7.0	Syenite	6.0	17.0	11.0	14.9	1.2	Eluvial						
1828	36	3961	100	453.2	4.5	448.7	4.5	448.7		5.0	Syenite												
1829	36	3960	100	454.9	4.0	450.9	4.0	450.9		8.0	Syenite	4.0	7.5	3.5	20.8	2.5	Eluvial						
1830	38	4498		497.0	1.5	495.5	15.6	481.4	14.1	17.7	Syenite												
1831	38	4497	105	491.0	6.0	485.0	20.3	470.7	14.3	20.3	Syenite												
1832	38	4496	98	488.0	4.0	484.0	17.4	470.6	13.4	18.9	Syenite												
1833	38	2030	96	484.9	4.0	480.9	18.6	466.3	14.6	20.2	Syenite	12.7	18.6	5.9	13.6	2.4	Alluvial						
1834	38	4495	98	482.1	2.8	479.3	13.4	468.7	10.6	15.0	Syenite	13.4	14.9	1.5	10.4	1.2	Alluvial						
1835	38	2016	100	481.3	5.9	475.4	9.8	471.5	3.9	11.0	Syenite												
1836	38	4105	102	479.8	4.8	475.0	10.7	469.1	5.9	10.9	Syenite												
1837	38	2015	99	478.5	2.1	476.4	9.0	469.5	6.9	19.0	Syenite	13.0	19.0	6.0	14.4	1.8	Eluvial						
1838	38	3555	100	477.3	2.9	474.4	5.5	471.8	2.6	21.0	Syenite	5.5	21.0	15.5	14.2	2.7	Eluvial						
1839	38	2014	99	476.1	1.4	474.7	7.2	468.9	5.8	19.5	Syenite	7.2	19.0	11.8	16.8	2.4	Eluvial						
1840	38	3554	98	474.8	3.0	471.8	3.6	471.2	0.6	13.1	Syenite	3.0	12.7	9.7	12.4	2.2	Eluvial+Alluvial						
1841	38	2013	100	474.2	3.1	471.1	9.5	464.7	6.4	20.4	Syenite	6.0	13.0	7.0	16.7	2.6	Eluvial+Alluvial						
1842	38	3553	100	473.5	7.8	465.7	7.8	465.7		14.0	Monzonite	7.8	14.0	6.2	24.7	1.2	Eluvial						
1843	38	2012	100	472.2	4.8	467.4	4.8	467.4		18.0	Syenite	4.5	18.0	13.5	16.1	2.2	Eluvial						
1844	38	3552	104	470.1	8.0	462.1	8.0	462.1		15.0	Syenite	8.0	15.0	7.0	19.0	1.5	Eluvial						
1845	38	2011	103	467.6	7.0	460.6	7.0	460.6		12.7	Syenite	7.0	12.7	5.7	18.1	1.5	Eluvial						
1846	38	3551	107	464.0	7.3	456.7	7.3	456.7		23.5	Monzonite	7.3	19.0	11.7	20.7	0.9	Eluvial						
1847	38	2010	95	461.8	8.3	453.5	8.3	453.5		16.0	Monzonite	8.3	16.0	7.7	21.9	1.1	Eluvial						
1848	38	3550	101	459.9	7.2	452.7	7.2	452.7		27.2	Monzonite	7.2	25.6	18.4	20.2	0.8	Eluvial						
1849	38	3812	98	458.7	7.9	450.8	7.9	450.8		22.8	Monzonite	14.0	20.0	6.0	14.1	0.6	Eluvial						
1850	38	3811	100	457.5	6.8	450.7	6.8	450.7		24.0	Syenite	6.8	24.0	17.2	21.3	1.5	Eluvial						
1851	38	2009	101	456.4	7.5	448.9	7.5	448.9		31.0	Syenite	7.5	23.0	15.5	20.1	1.2	Eluvial						
1852	38	3810	98	454.9	7.9	447.0	7.9	447.0		31.6	Syenite	7.9	30.0	22.1	21.7	0.9	Eluvial						
1853	38	3809	99	454.3	3.6	450.7	3.6	450.7		15.5	Syenite	5.6	11.6	6.0	14.6	0.9	Eluvial						
1854	38	3808	100	453.8	5.0	448.8	11.0	442.8	6.0	14.0	Syenite	5.0	11.0	6.0	20.1	2.1	Alluvial						
1855	38	2008	98	452.8	4.7	448.1	9.7	443.1	5.0	21.2	Monzonite	11.8	21.0	9.2	16.1	0.6	Eluvial						
1856	38	3807	104	450.0	4.0	446.0	12.1	437.9	8.1	16.8	Monzonite	4.0	16.7	12.7	17.2	1.5	Eluvial+Alluvial						
1857	38	2007	98	448.6	4.1	444.5	11.8	436.8	7.7	21.0	Monzonite	9.0	21.0	12.0	26.7	1.9	Eluvial+Alluvial	10.4	11.7	1.3	57.1	7.9	Alluvial
1858	38	3806	102	446.9	2.8	444.1	16.0	430.9	13.2	19.0	Syenite	4.0	18.0	14.0	30.8	5.9	Eluvial+Alluvial	12.8	15.9	3.1	87.5	17.1	Alluvial
1859	38	2006	101	446.5	3.0	443.5	13.0	433.5	10.0	14.5	Monzonite	5.2	14.0	8.8	30.2	5.1	Eluvial+Alluvial						
1860	38	3805	96	446.2	3.6	442.6	9.5	436.7	5.9	13.3	Syenite	3.6	13.3	9.7	33.0	5.0	Eluvial+Alluvial	6.5	9.2	2.7	63.5	11.0	Alluvial
1861	38	2005	99	446.2	2.8	443.4	10.0	436.2	7.2	13.2	Syenite	4.3	9.9	5.6	44.0	6.2	Alluvial	5.3	7.8	2.5	57.9	7.8	Alluvial
1862	38	3804	100	446.1	3.0	443.1	3.0	443.1		9.0	Monzonite	3.0	9.0	6.0	13.3	0.5	Eluvial						
1863	38	2004	99	446.2	1.2	445.0	1.2	445.0		5.5	Monzonite	1.2	5.5	4.3	34.3	0.9	Eluvial						
1864	38	3803	73	446.4	1.2	445.2	1.2	445.2		6.5	Monzonite	1.2	5.0	3.8	22.8	2.4	Eluvial						
1865	38	2003	124	446.9	1.0	445.9	1.0	445.9		14.3	Monzonite	1.0	6.0	5.0	32.7	4.5	Eluvial	1.0	2.5	1.5	70.8	12.0	Eluvial
1866	38	2002	193	449.7	2.0	447.7	2.0	447.7		13.0	Monzonite	2.0	13.0	11.0	25.7	1.8	Eluvial						
1867	38	1911	210	456.2	0.9	455.3	0.9	455.3		15.0	Syenite	0.8	1.5	0.7	16.5	2.4	Eluvial						
1868	40	4108		493.7	5.8	487.9	18.0	475.7	12.2	19.3	Syenite												
1869	40	4107	100	493.5	5.0	488.5	20.3	473.2	15.3	23.2	Syenite	15.7	20.3	4.6	15.0	2.4	Alluvial						
1870	40	4106	104	486.0	4.9	481.1	26.2	459.8	21.3	28.0	Syenite	22.3	26.2	3.9	16.1	2.6	Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1871	40	1085	94	484.6	3.2	481.4	22.0	462.6	18.8	26.0	Syenite	20.0	26.0	6.0	11.5	1.6	Eluvial+Alluvial						
1872	40	1084	123	481.7	2.4	479.3	14.4	467.3	12.0	18.0	Syenite	10.5	13.0	2.5	9.9	1.9	Alluvial						
1873	40	1083	87	480.8	2.0	478.8	9.0	471.8	7.0	10.5	Syenite												
1874	40	1082	103	478.5	2.3	476.2	11.5	467.0	9.2	14.5	Syenite	8.5	11.5	3.0	18.1	3.0	Eluvial+Alluvial						
1875	40	1081	101	477.0	1.2	475.8	7.0	470.0	5.8	20.2	Syenite	7.0	20.2	13.2	14.0	2.0	Eluvial						
1876	40	1080	103	474.8	2.0	472.8	14.9	459.9	12.9	30.0	Syenite	7.0	27.0	20.0	14.5	2.4	Eluvial+Alluvial						
1877	40	1079	106	472.2	0.5	471.7	7.1	465.1	6.6	16.0	Syenite	4.0	14.0	10.0	16.6	3.0	Eluvial+Alluvial						
1878	40	1078	92	471.5	1.5	470.0	10.4	461.1	8.9	19.2	Syenite	4.2	15.0	10.8	11.1	2.1	Eluvial+Alluvial						
1879	40	1077	104	462.5	1.0	461.5	7.0	455.5	6.0	21.3	Syenite	8.0	18.0	10.0	14.5	2.3	Eluvial						
1880	40	1076	102	466.8	2.6	464.2	2.6	464.2		15.1	Syenite	5.0	12.0	7.0	9.5	2.1	Eluvial						
1881	40	1075	105	464.2	3.6	460.6	3.6	460.6		8.6	Syenite	3.6	8.0	4.4	12.7	1.9	Eluvial						
1882	40	1074	103	462.0	3.8	458.2	3.8	458.2		15.0	Syenite	3.8	7.0	3.2	15.4	1.7	Eluvial						
1883	40	1073	125	459.5	4.7	454.8	4.7	454.8		8.3	Syenite	4.7	7.0	2.3	16.6	2.1	Eluvial						
1884	40	1072	99	457.7	5.0	452.7	5.0	452.7		12.0	Syenite	5.0	12.0	7.0	13.5	1.9	Eluvial						
1885	40	1071	48	456.8	5.8	451.0	5.8	451.0		17.3	Syenite	5.8	17.3	11.5	23.8	0.7	Eluvial						
1886	40	1070	51	456.1	4.8	451.3	4.8	451.3		15.1	Syenite	4.9	15.1	10.2	20.6	0.4	Eluvial						
1887	40	1069	49	455.6	4.5	451.1	4.5	451.1		19.3	Monzonite	4.5	19.3	14.8	24.4	1.1	Eluvial						
1888	40	1068	48	455.3	6.7	448.6	6.7	448.6		22.4	Monzonite	6.1	22.4	16.3	30.8	1.4	Eluvial						
1889	40	1067	51	454.8	6.0	448.8	6.0	448.8		13.3	Monzonite	6.0	13.3	7.3	25.1	1.1	Eluvial						
1890	40	1066	52	454.1	5.5	448.6	5.5	448.6		13.3	Monzonite	5.5	13.3	7.8	24.4	1.0	Eluvial						
1891	40	1065	108	452.8	4.0	448.8	4.0	448.8		18.0	Syenite	12.0	14.0	2.0	7.4	0.9	Eluvial						
1892	40	1064	95	451.9	4.0	447.9	4.0	447.9		21.0	Monzonite	4.0	21.0	17.0	25.6	1.0	Eluvial						
1893	40	1063	101	451.5	5.0	446.5	5.0	446.5		17.3	Monzonite	5.0	17.3	12.3	26.3	1.6	Eluvial						
1894	40	1062	51	451.3	5.8	445.5	5.8	445.5		16.3	Syenite	5.8	14.0	8.2	18.7	0.9	Eluvial						
1895	40	1061	51	451.2	6.0	445.2	8.2	443.0	2.2	15.0	Monzonite	6.0	15.0	9.0	38.0	4.0	Eluvial+Alluvial	7.1	8.1	1.0	136.3	21.7	Alluvial
1896	40	1060	51	451.0	6.0	445.0	8.0	443.0	2.0	14.6	Monzonite	6.0	14.6	8.6	37.2	3.2	Eluvial+Alluvial	5.9	7.0	1.1	117.4	15.3	Alluvial
1897	40	1059	47	450.8	5.0	445.8	6.0	444.8	1.0	14.0	Syenite	5.0	13.0	8.0	20.9	1.3	Eluvial+Alluvial						
1898	40	1058	52	450.5	5.0	445.5	5.0	445.5		11.2	Syenite	5.0	7.0	2.0	17.6	2.2	Eluvial+Alluvial						
1899	40	1057	51	450.2	5.0	445.2	5.0	445.2		12.5	Syenite	5.0	12.5	7.5	25.4	0.9	Eluvial						
1900	40	1056	48	449.7	5.0	444.7	5.0	444.7		17.0	Syenite	5.0	14.0	9.0	26.3	0.9	Eluvial						
1901	40	1055	57	449.3	5.0	444.3	8.0	441.3	3.0	15.0	Monzonite	8.0	15.0	7.0	17.7	0.7	Eluvial+Alluvial						
1902	40	1054	40	448.8	4.9	443.9	6.0	442.8	1.1	15.0	Monzonite	8.0	17.0	9.0	25.8	1.4	Eluvial+Alluvial	7.1	8.0	0.9	50.1	5.5	Alluvial
1903	40	1053	54	448.1	5.0	443.1	7.8	440.3	2.8	18.0	Monzonite	8.0	18.0	10.0	19.6	1.1	Eluvial						
1904	40	1052	53	447.7	4.4	443.3	13.5	434.2	9.1	17.8	Monzonite	9.0	17.8	8.8	37.3	3.7	Eluvial+Alluvial	11.8	13.6	1.8	72.3	10.0	Alluvial
1905	40	1051	50	447.5	4.4	443.1	14.8	432.7	10.4	16.0	Monzonite	6.0	16.0	10.0	39.0	5.6	Eluvial+Alluvial	11.6	14.8	3.2	69.3	9.8	Alluvial
1906	40	1050	51	447.1	5.0	442.1	13.8	433.3	8.8	14.3	Monzonite	6.0	14.3	8.3	38.5	6.3	Eluvial+Alluvial	11.1	13.8	2.8	69.3	7.2	Alluvial
1907	40	1049	55	446.8	3.5	443.3	13.6	433.2	10.1	15.3	Monzonite	7.0	15.3	8.3	47.2	7.0	Eluvial+Alluvial	12.0	15.3	3.3	55.9	7.3	Eluvial+Alluvial
1908	40	1048	39	446.9	4.5	442.4	11.0	435.9	6.5	19.5	Monzonite	5.2	19.5	14.3	77.5	3.8	Eluvial+Alluvial	9.0	19.5	10.5	93.5	3.1	Eluvial+Alluvial
1909	40	1047	58	447.4	3.7	443.7	12.0	435.4	8.3	16.0	Monzonite	6.0	16.0	10.0	41.5	5.9	Eluvial+Alluvial	8.0	11.8	3.8	66.3	11.3	Alluvial
1910	40	1046	47	448.0	3.6	444.4	11.9	436.1	8.3	16.0	Monzonite	4.0	16.0	12.0	25.1	3.2	Eluvial+Alluvial	10.7	11.7	1.0	52.9	8.4	Alluvial
1911	40	1045	50	448.7	3.8	444.9	8.5	440.2	4.7	11.8	Monzonite	6.8	11.8	5.0	31.9	2.8	Eluvial+Alluvial	12.5	13.5	1.0	55.2	7.7	Alluvial
1912	40	1044	55	449.0	3.0	446.0	3.0	446.0		8.2	Monzonite	3.0	8.2	5.2	26.9	1.6	Eluvial						
1913	40	1043	46	449.2	3.5	445.7	6.0	443.2	2.5	12.0	Monzonite	3.6	12.0	8.4	30.0	1.3	Eluvial+Alluvial						
1914	40	1324A	45	449.3	3.8	445.5	12.0	437.3	8.2	12.5	Monzonite	6.0	12.5	6.5	44.6	1.0	Eluvial+Alluvial	7.0	11.7	4.7	52.5	0.9	Alluvial
1915	40	1042	49	449.2	2.0	447.2	4.4	444.8	2.4	16.0	Monzonite	2.0	16.0	14.0	39.2	1.8	Eluvial+Alluvial	2.0	4.0	2.0	66.2	2.4	Eluvial+Alluvial
1916	40	1551	50	449.2	4.0	445.2	4.0	445.2		13.0	Monzonite	4.0	13.0	9.0	41.1	2.2	Eluvial	3.8	5.0	1.2	55.5	5.3	Eluvial
1917	40	1041	50	449.5	3.0	446.5	3.0	446.5		11.8	Monzonite	3.0	11.8	8.8	22.4	2.5	Eluvial						
1918	40	1040	102	451.9	5.5	446.4	6.0	445.9	0.5	13.2	Monzonite	6.0	11.0	5.0	13.8	3.6	Eluvial						
1919	40	1039	102	451.2	5.4	445.8	5.4	445.8		21.6	Monzonite	5.4	21.6	16.2	19.7	3.5	Eluvial						
1920	40	1038	98	457.4	5.4	452.0	5.4	452.0		11.0	Monzonite	5.4	11.0	5.6	22.2	3.4	Eluvial						
1921	40	1037	104	458.5	3.0	455.5	3.0	455.5		5.3	Monzonite	3.0	5.3	2.3	17.6	2.5	Eluvial						
1922	40	1036	101	457.6	3.0	454.6	3.0	454.6		3.5	Monzonite	3.0	3.5	0.5	12.5	1.9	Eluvial						
1923	40	1035	99	455.4	2.0	453.4	2.0	453.4		4.0	Monzonite	2.0	4.0	2.0	18.0	1.8	Eluvial						
1924	40	1034	102	452.5	3.6	448.9	3.6	448.9		6.0	Monzonite	3.6	6.0	2.4	23.5	3.2	Eluvial						
1925	40	1033	99	448.0	3.2	444.8	3.2	444.8		5.0	Monzonite	3.2	5.0	1.8	13.8	3.5	Eluvial						
1926	40	1032	50	446.0	3.0	443.0	3.0	443.0		5.8	Monzonite	3.0	5.8	2.8	17.0	3.2	Eluvial						
1927	40	1031	45	444.7	4.5	440.2	4.5	440.2		10.0	Monzonite	4.5	10.0	5.5	22.9	4.6	Eluvial						
1928	40	1030	55	443.0	4.9	438.1	4.9	438.1		25.4	Monzonite	4.3	25.0	20.7	28.4	1.8	Eluvial						
1929	40	1029	49	442.0	3.5	438.5	3.5	438.5		23.1	Monzonite	3.5	22.0	18.5	29.3	0.6	Eluvial						
1930	40	1028	53	441.2	2.0	439.2	2.0	439.2		17.0	Monzonite	2.0	17.0	15.0	32.9	1.4	Eluvial						
1931	40	1027A	27	440.7	3.0	437.7	3.0	437.7		23.3	Monzonite	3.0	23.3	20.3	43.3	0.9	Eluvial						
1932	40	1027	22	439.3	1.5	437.8	1.5	437.8		14.2	Monzonite	1.7	14.2	12.5	32.6	0.5	Eluvial						
1933	40	3771	48	437.6	1.8	435.8	1.8	435.8		9.0	Monzonite	1.8	8.5	6.7	16.4	0.4	Eluvial						
1934	40	1025	48	437.2	1.0	436.2	1.0	436.2		11.0	Monzonite	1.0	11.0	10.0	27.7	0.2	Eluvial						
1935	40	3770	52	436.0	1.5	434.5	4.0	432.0	2.5	14.0	Monzonite	1.5	13.5	12.0	47.2	3.0	Eluvial+Alluvial						
1936	40	1023	50	435.5	2.4	433.1	4.5	431.0	2.1	14.0	Monzonite	2.4	4.5	2.1	77.9	11.2	Alluvial						
1937	40	3769	49	435.4	6.0	429.4	11.0	424.4	5.0	20.0	Syenite	3.0	20.0	17.0	44.5	3.8	Eluvial+Alluvial						
1938	40	1021	50	434.5	3.1	431.4	5.2	429.3	2.1	10.0	Syenite	3.1	7.0	3.9	80.6	12.1	Eluvial+Alluvial						
1939	40	3768	46	434.7	3.0	431.7	4.0	430.7	1.0	7.0	Syenite	3.0	6.5	3.5	31.9	5.0	Eluvial+Alluvial						
1940	40	1019	57	434.8	2.8	432.0	4.0	430.8	1.2	8.0	Syenite	2.8	8.0	5.2	44.6	8.3	Eluvial+Alluvial						
1941	40	3767	49	434.9	2.8	432.1	2.8	432.1		5.0	Syenite	2.8	4.8	2.0	13.3	2.7	Eluvial						
1942	40	1017	57	434.3	1.3	433.0	3.0	431.3	1.7	7.5	Syenite	2.1	7.5	5.4	25.2	5.3	Eluvial+Alluvial						
1943	40	3766	53	434.9	2.1	432.8	2.1	432.8		7.0	Syenite	4.8	6.8	2.0	15.1	2.3	Eluvial						
1944	40	1015	51	435.4	2.8	432.6	2.8	432.6		9.0	Syenite	2.2	9.0	6.8	15.7	3.6	Eluvial						
1945	40	3765	55	435.9	4.5	431.4	6.8	429.1	2.3	13.0	Syenite	4.5	10.4	5.9	31.4	6.2	Eluvial+Alluvial						
1946	40	1013	52	436.7	3.2	433.5	4.7	432.0	1.5	12.0	Syenite	3.2	12.0	8.8	30.3	6.6	Eluvial+Alluvial	3.6	4.8	1.2	97.1	21.6	Alluvial
1947	40	3764	51	437.5	2.9	434.6	4.0	433.5	1.1	11.0	Syenite	5.0	9.0	4.0	24.0	1.2	Eluvial						
1948	40	1011	49	438.6	3.0	435.6	3.0	435.6		10.2	Syenite	3.0	10.2	7.2	18.5	4.4	Eluvial						
1949	40	1010	52	439.5	2.5	437.0	2.5	437.0		9.0	Syenite	2.5	9.0	6.5	12.9	3.5	Eluvial						
1950	40	3763	50	441.2	2.4	438.8	2.4	438.8		7.6	Monzonite	6.0	7.6	1.6	18.6	0.5	Eluvial						
1951	40	3826	54	443.0	1.6	441.4	1.6	441.4		7.0	Syenite	1.8	7.0	5.2	14.4	0.9	Eluvial						
1952	40	3827	47	444.4	1.0	443.4	1.0	443.4		6.0	Syenite	1.0	5.0	4.0	25.5	4.1	Eluvial						
1953	40	3762	53	446.1	2.6	443.5	2.6	443.5		16.0	Syenite	2.6	14.0	11.4	17.9	1.4	Eluvial						
1954	40	3761	99	446.9	3.0	443.9	3.0	443.9		22.0	Syenite	3.0	22.0	19.0	18.2	2.4	Eluvial						
1955	40	3760	98	445.8	2.1	443.7	2.1	443.7		25.0	Syenite	2.1	14.0	11.9	17.9	2.5	Eluvial						
1956	40	3759	100	445.7	2.8	442.9	2.8	442.9		28.0	Syenite	2.8	27.8	25.0	18.4	2.0	Eluvial						
1957	40	3758	100	446.3	2.0	444.3	2.0	444.3		29.5	Syenite	2.0	25.0	23.0	16.9	1.9	Eluvial						
1958	40	3757	102	450.0	4.0	446.0	4.0	446.0		25.5	Syenite	4.0	25.0	21.0	17.8	2.3	Eluvial						
1959	40	3756	95	453.0	3.0	450.0	3.0	450.0		14.5	Syenite	3.0	12.0	9.0	13.2	2.6	Eluvial						
1960	40	3716	104	457.1	4.0	453.1	4.0	453.1		12.6	Syenite	4.0	8.0	4.0	13.3	0.9	Eluvial						
1961	42	2001		495.7	2.5	493.2	2.5	493.2		2.5	Syenite												
1962	42	2000	198	490.5	8.2	482.3	19.0	471.5	10.8	19.0	Syenite												
1963	42	1999	201	484.4	1.5	482.9	18.1	466.3	16.6	20.4	Syenite	4.2	18.0	13.8	12.5	1.7	Alluvial						
1964	42	3531	102	482.2	3.1	479.1	20.0	462.2	16.9	26.3	Syenite	15.8	20.2	4.4	25.5	4.3	Alluvial						
1965	42	1998	96	480.1	5.1	475.0	19.5	460.6	14.4	22.9	Syenite	11.0	22.8	11.8	25.2	2.9	Eluvial+Alluvial						
1966	42	4104	102	477.9	4.4	473.5	20.0	457.9	15.6	27.0	Syenite	12.5	25.0	12.5	14.5	2.9	Eluvial+Alluvial						
1967	42	1997	99	475.9	3.2	472.7	23.0	452.9	19.8	16.7	Syenite	12.0	15.4	3.4	5.7	4.9	Alluvial						
1968	42	3530	97	473.8	7.7	466.1	24.0	449.8	16.3	28.3	Syenite	19.7	24.3	4.6	12.4	3.2	Alluvial						
1969	42	1996	99	468.6	1.1	467.5	14.0	454.6	12.9	26.0	Syenite	22.0	26.0	4.0	12.3	1.7	Eluvial						
1970	42	3529	105	466.2	0.8	465.4	7.9	458.3	7.1	21.5	Syenite	16.0	20.8	4.8	13.7	1.8	Eluvial						
1971	42	1995	104	464.0	2.0	462.0	2.7	461.3	0.7	17.5	Syenite	8.0	11.0	3.0	21.8	1.3	Eluvial						
1972	42	3528	90	462.5	3.0	459.5	3.0	459.5		13.0	Syenite	3.0	11.9	8.9	16.9	2.3	Eluvial						
1973	42	1994	110	461.2	2.2	459.0	2.2	459.0		16.0	Syenite	11.6	15.9	4.3	9.9	1.6	Eluvial						
1974	42	3527	103	459.4	2.9	456.5	2.9	456.5		17.6	Monzonite	4.8	17.0	12.2	21.5	1.5	Eluvial						
1975	42	1993	93	457.8	1.3	456.5	1.3	456.5		13.5	Monzonite	1.3	13.4	12.1	17.9	2.0	Eluvial						
1976	42	1992	209	455.3	1.7	453.6	1.7	453.6		26.0	Monzonite												
1977	42	1991	189	453.5	3.5	450.0	3.5	450.0		17.5	Monzonite												
1978	42	3526	209	451.5	4.7	446.8	4.7	446.8		25.9	Monzonite	4.7	24.0	19.3	20.0	1.2	Eluvial						
1979	42	1380	52	451.0	5.0	446.0	5.0	446.0		12.2	Monzonite	4.0	11.0	7.0	27.0	1.3	Eluvial						
1980	42	1379	22	450.8	3.0	447.8	3.0	447.8		8.0	Monzonite	3.0	8.0	5.0	26.1	1.0	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m² ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
1981	42	1378	24	450.5	4.0	446.5	4.0	446.5		11.0	Monzonite	4.0	11.0	7.0	25.1	1.2	Eluvial						
1982	42	1377	28	450.3	3.0	447.3	3.0	447.3		7.0	Monzonite	3.0	7.0	4.0	24.1	0.7	Eluvial						
1983	42	1376	24	450.0	3.0	447.0	3.0	447.0		8.0	Monzonite	3.0	8.0	5.0	27.3	1.6	Eluvial						
1984	42	1375	25	449.8	3.0	446.8	3.0	446.8		11.5	Monzonite	3.0	11.3	8.3	25.1	1.2	Eluvial						
1985	42	1374	24	449.7	3.4	446.3	3.4	446.3		19.3	Monzonite	3.4	17.0	13.6	18.9	1.0	Eluvial						
1986	42	1373	27	449.4	3.0	446.4	3.0	446.4		10.0	Monzonite	4.0	10.0	6.0	26.4	1.0	Eluvial						
1987	42	1372	25	449.3	2.0	447.3	2.0	447.3		12.9	Monzonite	3.0	12.9	9.9	46.5	1.6	Eluvial	6.0	7.0	1.0	163.7	5.0	Eluvial
1988	42	1371	24	449.1	3.5	445.6	3.5	445.6		12.2	Monzonite	3.5	12.2	8.7	24.9	1.0	Eluvial						
1989	42	1370	25	448.9	3.2	445.7	3.2	445.7		13.2	Monzonite	3.2	13.2	10.0	27.8	0.8	Eluvial						
1990	42	1369	28	448.7	4.0	444.7	4.0	444.7		12.0	Monzonite	4.0	12.0	8.0	32.6	1.3	Eluvial	5.0	6.0	1.0	52.1	2.5	Eluvial
1991	42	1368	25	448.5	3.6	444.9	3.6	444.9		13.8	Monzonite	3.6	13.8	10.2	29.9	1.1	Eluvial						
1992	42	1367	25	448.2	3.0	445.2	3.0	445.2		10.0	Monzonite	3.0	9.0	6.0	30.3	0.9	Eluvial						
1993	42	1366	26	448.0	3.0	445.0	3.0	445.0		9.4	Monzonite	3.0	9.4	6.4	23.6	1.0	Eluvial						
1994	42	1365	24	447.8	4.0	443.8	4.0	443.8		11.5	Monzonite	4.0	11.5	7.5	28.1	0.8	Eluvial						
1995	42	1364	24	447.7	4.0	443.7	4.0	443.7		9.5	Monzonite	4.0	9.5	5.5	22.5	0.9	Eluvial						
1996	42	1363	24	447.6	4.0	443.6	5.0	442.6	1.0	10.5	Monzonite	4.0	10.5	6.5	32.9	1.7	Eluvial+Alluvial	4.0	5.0	1.0	63.4	4.9	Alluvial
1997	42	1362	28	447.4	5.0	442.4	7.0	440.4	2.0	12.0	Monzonite	5.0	12.0	7.0	42.4	3.2	Eluvial+Alluvial	6.0	7.0	1.0	120.2	12.9	Alluvial
1998	42	1361	26	447.3	5.4	441.9	6.0	441.3	0.6	13.4	Monzonite	5.4	13.4	8.0	25.0	0.6	Eluvial+Alluvial						
1999	42	1360	30	447.3	5.2	442.1	7.0	440.3	1.8	14.0	Syenite	5.2	14.0	8.8	30.3	1.0	Eluvial+Alluvial						
2000	42	1359	24	447.2	6	441.2	7	440.2	1.0	16.0	Syenite	6.0	16.0	10.0	26.4	0.8	Eluvial+Alluvial						
2001	42	1358	25	447.2	6.3	440.9	9	438.2	2.7	12.0	Syenite	6.3	12.0	5.7	19.8	1.8	Eluvial+Alluvial						
2002	42	1357	24	447.3	7.0	440.3	8.8	438.5	1.8	15.3	Monzonite	7.0	14.7	7.7	23.8	1.1	Eluvial+Alluvial						
2003	42	1356	26	447.4	7.0	440.4	13.8	433.6	6.8	15.0	Monzonite	7.0	15.0	8.0	26.2	4.0	Eluvial+Alluvial						
2004	42	1355	26	447.8	7.0	440.8	15.8	432.0	8.8	16.8	Monzonite	7.1	16.8	9.7	27.6	3.7	Eluvial+Alluvial	14.2	15.2	1.0	96.0	16.2	Alluvial
2005	42	1354	26	447.9	5.0	442.9	15.5	432.4	10.5	16.5	Monzonite	5.0	16.5	11.5	24.6	3.9	Eluvial+Alluvial	13.7	15.7	2.0	60.9	10.8	Alluvial
2006	42	1353	23	448.0	7.0	441.0	16.5	431.5	9.5	16.5	Monzonite	8.0	16.0	8.0	32.5	5.1	Alluvial	13.8	16.5	2.7	68.6	10.1	Alluvial
2007	42	1352	22	448.2	6.2	442.0	15.0	433.2	8.8	15.0	Monzonite	8.0	15.0	7.0	35.9	6.0	Alluvial	10.8	12.5	1.7	60.2	10.2	Alluvial
2008	42	1351	24	448.3	6.0	442.3	11.8	436.5	5.8	14.0	Monzonite	6.0	14.0	8.0	26.7	4.2	Eluvial+Alluvial	13.0	14.2	1.2	57.2	9.8	Eluvial
2009	42	1350	26	448.3	5.5	442.8	15.8	432.5	10.3	15.8	Monzonite	9.8	15.8	6.0	32.0	4.9	Alluvial						
2010	42	1349	24	448.5	5.8	442.7	16.5	432.0	10.7	21.0	Monzonite	9.0	21.0	12.0	37.5	5.1	Eluvial+Alluvial	13.8	18.7	4.9	63.0	9.3	Eluvial+Alluvial
2011	42	1348	26	448.7	7.0	441.7	17.5	431.2	10.5	18.5	Monzonite	8.0	18.5	10.5	57.3	9.4	Eluvial+Alluvial	10.8	18.5	7.7	68.4	10.7	Eluvial+Alluvial
2012	42	1347	21	448.9	7.0	441.9	14.0	434.9	7.0	15.0	Monzonite	10.0	15.0	5.0	50.9	7.8	Eluvial+Alluvial	11.3	15.0	3.7	62.7	9.7	Eluvial+Alluvial
2013	42	1346	22	449.1	6.8	442.3	14.3	434.8	7.5	14.5	Monzonite	9.0	14.5	5.5	43.1	7.1	Alluvial	10.5	14.5	4.0	62.3	10.2	Alluvial
2014	42	1345	22	449.2	7.2	442.0	14.0	435.2	6.8	15.0	Monzonite	11.0	15.0	4.0	52.2	8.7	Eluvial+Alluvial	12.7	15.0	2.3	66.4	11.7	Eluvial+Alluvial
2015	42	1344	30	449.4	8.2	441.2	14.0	435.4	5.8	14.0	Monzonite	8.2	14.0	5.8	38.2	5.7	Alluvial	12.3	14.0	1.7	60.1	9.6	Alluvial
2016	42	1343	30	449.6	8.0	441.6	15.5	434.1	7.5	16.0	Monzonite	8.0	15.0	7.0	38.3	6.2	Alluvial	10.0	13.0	3.0	53.1	8.4	Alluvial
2017	42	1342	26	449.7	8.0	441.7	14.6	435.1	6.6	15.1	Monzonite	8.0	15.1	7.1	37.4	5.7	Eluvial+Alluvial	12.4	15.1	2.7	54.1	8.9	Eluvial+Alluvial
2018	42	1341	27	449.8	9.7	440.1	13.2	436.6	3.5	17.0	Monzonite	9.7	17.0	7.3	32.6	3.3	Eluvial+Alluvial	10.8	11.9	1.1	60.5	9.3	Alluvial
2019	42	1340	24	449.9	9.9	440.0	13.0	436.9	3.1	16.0	Monzonite	9.9	16.0	6.1	38.9	5.3	Eluvial+Alluvial	11.8	12.9	1.1	59.4	11.3	Alluvial
2020	42	1339	27	449.9	9.2	440.7	14.5	435.4	5.3	18.0	Monzonite	11.0	18.0	7.0	30.0	4.7	Eluvial+Alluvial	11.6	14.0	2.4	61.8	10.8	Alluvial
2021	42	1338	23	449.9	9.8	440.1	13.9	436.0	4.1	15.0	Monzonite	9.8	15.0	5.2	38.8	6.2	Eluvial+Alluvial	11.0	14.0	3.0	56.1	10.0	Eluvial+Alluvial
2022	42	1337	27	450.1	11.0	439.1	12.0	438.1	1.0	15.0	Monzonite	11.0	15.0	4.0	51.7	7.4	Eluvial+Alluvial	10.4	12.3	1.9	99.3	14.0	Alluvial
2023	42	1336	34	450.2	6.0	444.2	6.0	444.2		11.5	Monzonite	6.0	11.5	5.5	26.4	1.5	Eluvial						
2024	42	1604	38	450.4	9.8	440.6	13.0	437.4	3.2	13.0	Monzonite	9.8	13.0	3.2	108.8	15.5	Alluvial	9.8	13.0	2.5	115.1	16.2	Alluvial
2025	42	1603	44	450.4	8.5	441.9	12.4	438.0	3.9	15.0	Monzonite	8.5	13.0	4.5	50.1	4.1	Eluvial+Alluvial	9.8	11.7	2.0	65.6	5.9	Alluvial
2026	42	1608	44	450.8	7.5	443.3	7.5	443.3		10.0	Monzonite	7.5	10.0	2.5	18.3	11.0	Eluvial						
2027	42	1910	368	456.0	6.5	449.5	6.5	449.5		25.0	Monzonite	6.0	25.0	19.0	26.7	4.0	Eluvial						
2028	44	1400		476.8	1	475.8	7.6	469.2	6.6	7.6	Syenite												
2029	44	1399	104	475.9	1	474.9	6.9	469.0	5.9	8	Syenite												
2030	44	1398	100	472.0	1	471.0	20	452.0	19.0	20.5	Syenite	12.0	16.0	4.0	11.7	2.1	Alluvial						
2031	44	1397	98	466.8	1.8	465.0	16	450.8	14.2	19	Syenite	16.0	19.0	3.0	24.4	3.7	Eluvial+Alluvial						
2032	44	287	100	463.5	4	459.5	17	446.5	13.0	17	Syenite												
2033	44	1396	100	461.8	3.4	458.4	15.5	446.3	12.1	16	Syenite	9.0	14.4	5.4	9.3	1.8	Alluvial						
2034	44	1318	97	460.3	3.1	457.2	14	446.3	10.9	17.5	Syenite	14.0	17.5	3.5	13.3	1.7	Eluvial+Alluvial						
2035	44	562	192	457.7	2.4	455.3	2.4	455.3		5.2	Monzonite	2.4	5.2	2.8	22.1	2.1	Eluvial						
2036	44	1317	183	455.9	2	453.9	2	453.9		20	Monzonite	2.0	20.0	18.0	30.0	0.3	Eluvial						
2037	44	1395	100	455.0	2	453.0	2	453.0		10.5	Monzonite	2.0	10.5	8.5	25.5	1.5	Eluvial						
2038	44	286	86	454.3	2	452.3	10.1	444.2	8.1	11.3	Monzonite	6.0	11.3	5.3	58.3	0.2	Eluvial+Alluvial	8.3	10.1	1.8	98.6	0.8	Alluvial
2039	44	1394	145	453.1	3.6	449.5	3.6	449.5		5.2	Monzonite	3.6	5.2	1.6	32.4	1.9	Eluvial						
2040	44	1316	50	452.5	3.5	449.0	3.5	449.0		13.5	Monzonite	3.5	13.5	10.0	24.2	0.3	Eluvial						
2041	44	284	246	450.3	4	446.3	4	446.3		8.6	Monzonite	4.0	8.6	4.6	0.5	0.1	Eluvial						
2042	44	1393	44	449.7	3	446.7	3	446.7		9.5	Monzonite	3.0	9.5	6.5	24.9	1.5	Eluvial						
2043	44	1392	56	449.2	3	446.2	3	446.2		8	Monzonite	3.0	8.0	5.0	2.2	0.7	Eluvial						
2044	44	1391	48	448.7	3	445.7	4.2	444.5	1.2	14.9	Monzonite	3.0	14.9	11.9	26.4	2.0	Eluvial+Alluvial						
2045	44	285	52	448.1	2.5	445.6	3.3	444.8	0.8	16.2	Monzonite	5.0	7.0	2.0	40.7	1.8	Eluvial						
2046	44	1390	50	447.5	3	444.5	3	444.5		12	Monzonite	3.0	12.0	9.0	30.5	1.2	Eluvial	5.0	6.0	1.0	62.1	2.4	Eluvial
2047	44	283	52	446.8	4.5	442.3	7.5	439.3	3.0	16.4	Monzonite	9.5	16.4	6.9	23.2	0.5	Eluvial						
2048	44	1389	50	446.7	4.5	442.2	6	440.7	1.5	18.3	Monzonite	4.5	18.3	13.8	31.0	0.9	Eluvial+Alluvial						
2049	44	1388	48	446.3	3	443.3	8	438.3	5.0	16.5	Monzonite	3.0		13.5	24.8	1.1	Eluvial+Alluvial						
2050	44	1387	53	445.9	5.5	440.4	8	437.9	2.5	14	Monzonite	5.5	14.0	8.5	19.8	1.1	Eluvial+Alluvial						
2051	44	1386	50	445.9	6	439.9	12.3	433.6	6.3	13.6	Monzonite	7.0	13.6	6.6	43.3	3.9	Eluvial+Alluvial	8.1	11.2	3.1	64.8	6.2	Alluvial
2052	44	1385	45	446.3	7.5	438.8	14	432.3	6.5	14.5	Monzonite	8.0	14.5	6.5	16.9	2.3	Eluvial+Alluvial						
2053	44	282	34	446.4	6.5	439.9	15.8	430.6	9.3	16.3	Monzonite	8.0	16.3	8.3	40.6	4.6	Eluvial+Alluvial	9.8	11.8	2.0	66.4	10.0	Alluvial
2054	44	1384	66	446.6	6.8	439.8	15.8	430.8	9.0	15.8	Monzonite	6.8	15.8	9.0	36.5	8.0	Alluvial	12.8	15.8	3.0	68.2	9.7	Alluvial
2055	44	1383	69	447.2	6	441.2	16	431.2	10.0	16	Monzonite	6.0	16.0	10.0	46.4	7.2	Alluvial	11.9	16.0	4.1	87.7	13.3	Alluvial
2056	44	1382	48	447.6	6	441.6	15.7	431.9	9.7	15.7	Monzonite	6.0	15.7	9.7	44.0	6.4	Alluvial	9.9	15.4	5.5	65.1	10.8	Alluvial
2057	44	288	38	447.6	6.9	440.7	13.9	433.7	7.0	15	Monzonite												
2058	44	1381	61	448.3	9.2	439.1	14	434.3	4.8	17	Monzonite	9.2	17.0	7.8	37.8	4.6	Eluvial+Alluvial	12.9	13.8	0.9	68.4	9.5	Alluvial
2059	44	1381A	50	448.5	10.5	438.0	12	436.5	1.5	17	Monzonite	10.5	17.0	6.5	36.5	3.3	Eluvial+Alluvial	11.1	12.2	1.1	58.7	10.1	Alluvial
2060	44	4232	114	449.5	12	437.5	12	437.5		22.2	Monzonite	14.0	22.0	8.0	19.0	1.8	Eluvial						
2061	44	3800	124	450.0	4	446.0	4	446.0		14	Monzonite	4.0	13.8	9.8	16.9	0.8	Eluvial						
2062	44	3799	80	450.2	3	447.2	3	447.2		29	Monzonite	3.0	29.0	26.0	25.3	0.9	Eluvial						
2063	44	3798	100	450.0	5	445.0	5	445.0		22.5	Monzonite	5.0	22.3	17.3	23.6	1.7	Eluvial						
2064	44	3797	64	451.0	7.5	443.5	7.5	443.5		22	Monzonite	7.5	22.0	14.5	27.1	4.9	Eluvial						
2065	44	3796	114	452.0	7.8	444.2	13	439.0	5.2	19.5	Monzonite	10.0	19.3	9.3	22.9	3.3	Eluvial+Alluvial						
2066	44	3795	110	451.5	7.9	443.6	12.8	438.7	4.9	28	Monzonite	11.0	17.0	6.0	21.0	4.2	Eluvial+Alluvial						
2067	44	3794	106	449.5	3.6	445.9	8.2	441.3	4.6	17.5	Monzonite	5.4	17.3	11.9	20.8	4.0	Eluvial+Alluvial						
2068	44	555	102	446.2	5.3	440.9	8.9	437.3	3.6	18	Monzonite	5.3	18.0	12.7	29.2	5.1	Eluvial+Alluvial						
2069	44	3793	98	443.2	3.6	439.6	7	436.2	3.4	16.8	Monzonite	3.6	16.7	13.1	22.9	4.7	Eluvial+Alluvial						
2070	44	1314	86	441.5	3.1	438.4	6	435.5	2.9	24.7	Monzonite	4.0	24.7	20.7	18.3	3.4	Eluvial+Alluvial						
2071	44	3792	66	440.2	5.5	434.7	10.5	429.7	5.0	22	Monzonite	10.5	22.0	11.5	16.0	2.9	Eluvial						
2072	44	1806	82	439.7	4.2	435.5	4.2	435.5		12.5	Syenite	4.2	12.5	8.3	14.7	2.4	Eluvial						
2073	44	3791	107	438.6	4	434.6	4	434.6		5.5	Syenite	4.0	5.5	1.5	8.7	2.0	Eluvial						
2074	44	1805	86	437.7	4.2	433.5	4.2	433.5		11	Syenite	4.2	9.0	4.8	20.5	0.9	Eluvial+Alluvial						
2075	44	3790	112	434.8	3.3	431.5	7.14	427.7	3.8	10	Monzonite	2.9	9.9	7.0	74.3	11.0	Eluvial+Alluvial	4.7	7.3	2.6	150.3	22.5	Alluvial
2076	44	1804	98	432.5	2.2	430.3	4	428.5	1.8	8	Syenite	2.2	6.5	4.3	60.1	9.5	Eluvial+Alluvial	2.1	4.8	2.7	82.7	14.2	Alluvial
2077	44	3789	108	431.9	1.8	430.1	1.8	430.1		4	Syenite	1.8	3.9	2.1	12.0	1.0	Eluvial						
2078	44	1803	94	431.9	1.5	430.4	1.5	430.4		4.5	Syenite	1.5	2.9	1.4	32.8	6.1	Eluvial						
2079	44	2515	100	432.4	2.4	430.0	2.4	430.0		6.5	Syenite	1.7	5.5	3.8	24.5	2.9	Eluvial+Alluvial	2.0	2.9	0.9	51.2	9.7	Alluvial
2080	44	1802	98	435.2	1.8	433.4	1.8	433.4		12	Syenite	2.0	10.0	8.0	22.0	1.8	Eluvial						
2081	44	2516	100	437.5	2.9	434.6	2.9	434.6		14.2	Syenite	2.9	13.0	10.1	29.1	2.5	Eluvial						
2082	44	1801	100	442.0	0.8	441.2	3	439.0	2.2	17.5	Syenite	0.8	15.0	14.2	14.8	1.6	Eluvial+Alluvial						
2083	44	2517	98	444.3	6	438.3	7	437.3	1.0	29.3	Syenite	5.0	29.2	24.2	28.7	4.2	Eluvial+Alluvial						
2084	44	1800	98	444.9	3	441.9	11	433.9	8.0	25	Monzonite	3.0	6.0	3.0	10.0	1.6	Alluvial						
2085	44	3734	101	446.2	0.3	445.9	6	440.2	5.7	35	Syenite		34.0	34.0	18.7	2.5	Eluvial+Alluvial						
2086	44	1799	99	447.3	3	444.3	9	438.3	6.0	34	Syenite	3.0	30.5	27.5	13.1	1.5							
2087	44	3735	92	448.0	3	445.0	7	441.0	4.0	31	Syenite	7.0	30.8	23.8	15.5	2.0	Eluvial						
2088	44	1798	110	449.2	2.7	446.5	2.7	446.5		22	Syenite	2.7	22.0	19.3	17.7	0.9	Eluvial						
2089	44	3736	96	450.5	3	447.5	3	447.5		13.5	Syenite	7.0	13.0	6.0	10.3	2.1	Eluvial						
2090	44	3737	108	452.0	3	449.0	3	449.0		8	Syenite	3.0	7.0	4.0	14.7	1.8	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY-BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
2091	46	1990		488.5	6	482.5	13.1	475.4	7.1	13.3	Syenite												
2092	46	1989	200	485.7	6.9	478.8	11.8	473.9	4.9	12	Syenite												
2093	46	1988	196	482.2	2.9	479.3	10.8	471.4	7.9	11	Syenite												
2094	46	3524	110	480.2	2.7	477.5	6.2	474.0	3.5	6.2	Syenite												
2095	46	1987	94	478.7	1.9	476.8	9	469.7	7.1	11	Syenite												
2096	46	3523	108	478.1	2	476.1	9.9	468.2	7.9	11.5	Syenite												
2097	46	3522	194	475.2	0.6	474.6	7	468.2	6.4	9.3	Syenite												
2098	46	1985	98	471.3	1	470.3	5	466.3	4.0	10.5	Syenite	5.0	7.0	2.0	13.6	1.8	Eluvial						
2099	46	3521	106	465.8	1.4	464.4	12.2	453.6	10.8	16	Syenite	1.4	15.4	14.0	31.0	3.9	Eluvial+Alluvial	5.0	7.0	2.0	59.7	6.2	Alluvial
2100	46	1984	94	463.6	1.2	462.4	1.2	462.4		5.5	Syenite	3.2	5.3	2.1	16.5	1.4	Eluvial						
2101	46	3520	106	461.3	1.9	459.4	6	455.3	4.1	11	Syenite	1.9	4.0	2.1	12.7	2.0	Alluvial						
2102	46	1983	98	459.9	1.5	458.4	14	445.9	12.5	17.3	Syenite	4.0	9.0	5.0	12.7	2.0	Alluvial						
2103	46	3519	98	458.9	5	453.9	14.8	444.1	9.8	17.5	Syenite	9.0	16.8	7.8	29.1	5.1	Eluvial+Alluvial	9.0	12.1	3.1	54.2	11.2	Alluvial
2104	46	1982	100	459.0	4.2	454.8	15	444.0	10.8	17.5	Syenite	13.0	16.0	3.0	10.8	2.2	Eluvial+Alluvial						
2105	46	3518	104	458.7	6	452.7	11	447.7	5.0	13.4	Syenite	6.0	8.0	2.0	12.5	4.7	Alluvial						
2106	46	1981	98	457.5	7	450.5	7	450.5		18	Syenite	7.0	16.0	9.0	16.8	1.1	Eluvial						
2107	46	4085	100	456.3	4.3	452.0	4.3	452.0		18.3	Syenite	4.3	18.2	13.9	21.1	1.5	Eluvial						
2108	46	1980	100	454.5	4	450.5	4	450.5		19.6	Monzonite	6.1	19.6	13.5	23.1	1.4	Eluvial						
2109	46	3517	92	453.4	4	449.4	4	449.4		21.5	Monzonite	2.0	21.0	19.0	29.5	1.2	Eluvial						
2110	46	1979	112	452.4	3	449.4	3	449.4		19.2	Monzonite	5.0	19.0	14.0	31.4	0.3	Eluvial						
2111	46	1978	198	450.1	4	446.1	7	443.1	3.0	24.5	Monzonite	7.0	24.5	17.5	19.7	0.8	Eluvial						
2112	46	3516	200	447.1	3.3	443.8	3.3	443.8		17.4	Monzonite	3.3	17.0	13.7	22.5	1.3	Eluvial						
2113	46	1977	197	444.6	4	440.6	4	440.6		13.8	Monzonite	4.0	13.8	9.8	20.1	0.7	Eluvial						
2114	46	4084	197	444.2	4.5	439.7	7.7	436.5	3.2	8.9	Monzonite	7.7	8.9	1.2	15.2	0.3	Eluvial						
2115	46	1976	98	443.4	6	437.4	10	433.4	4.0	21	Monzonite	10.0	14.0	4.0	22.8	2.3	Eluvial						
2116	46	3515	103	443.4	8.3	435.1	15.3	428.1	7.0	15.3	Granite	8.3	15.3	7.0	30.3	4.8	Alluvial						
2117	46	1975	104	443.9	6.8	437.1	13	430.9	6.2	16	Granite	6.8	13.0	6.2	41.8	5.8	Alluvial	11.0	13.0	2.0	77.4	10.0	Alluvial
2118	46	4102	96	444.6	9.5	435.1	9.5	435.1		14.5	Syenite	9.5	14.0	4.5	16.6	1.0	Eluvial						
2119	46	1974	94	445.5	7.5	438.0	7.5	438.0		20.1	Syenite	10.0	12.0	2.0	18.9	0.8	Eluvial						
2120	46	3514	108	446.6	5.8	440.8	5.8	440.8		21.3	Syenite	5.8	18.0	12.2	16.5	1.6	Eluvial						
2121	46	1973	96	448.0	4.5	443.5	4.5	443.5		16	Syenite	6.0	15.9	9.9	22.6	0.6	Eluvial						
2122	46	3513	106	447.9	4.8	443.1	4.8	443.1		20.3	Monzonite		15.0	15.0	20.4	1.0	Eluvial+Alluvial						
2123	46	1909	102	444.5	4	440.5	4	440.5		14	Monzonite	3.0	14.0	11.0	23.2	1.0	Eluvial+Alluvial						
2124	46	3981	180	443.0	7.9	435.1	7.9	435.1		18.3	Monzonite	7.9	17.9	10.0	16.9	1.3	Eluvial						
2125	46	3980	106	441.8	10	431.8	10	431.8		16	Monzonite	10.0	15.6	5.6	22.0	3.1	Eluvial						
2126	46	3979	104	440.9	8	432.9	10	430.9	2.0	26	Monzonite	8.0	26.0	18.0	18.0	3.2	Eluvial+Alluvial						
2127	46	3978	98	439.5	7.3	432.2	12.4	427.1	5.1	24	Monzonite	7.3	24.0	16.7	16.5	2.7	Eluvial+Alluvial						
2128	46	3977	96	437.8	4.8	433.0	10.5	427.3	5.7	24	Monzonite	4.8	24.0	19.2	19.0	3.5	Eluvial+Alluvial						
2129	46	3976	76	436.3	4	432.3	10.5	425.8	6.5	26.5	Monzonite	4.0	26.5	22.5	18.4	3.3	Eluvial+Alluvial						
2130	46	3975	90	435.8	6.7	429.1	6.7	429.1		25	Monzonite	6.7	24.0	17.3	19.6	4.0	Eluvial						
2131	46	443	104	436.4	5.5	430.9	6.7	429.7	1.2	10	Syenite	5.5	10.0	4.5	45.4	9.6	Eluvial+Alluvial	5.4	6.8	1.4	108.2	24.1	Alluvial
2132	46	442	106	436.5	5.5	431.0	7.5	429.0	2.0	10	Syenite	5.5	10.0	4.5	58.2	14.9	Eluvial+Alluvial	5.3	7.6	2.3	111.6	28.8	Alluvial
2133	46	441	120	435.8	5.1	430.7	10.2	425.6	5.1	12.2	Syenite	5.1	12.2	7.1	49.9	8.4	Eluvial+Alluvial	7.4	10.1	2.7	103.5	17.4	Alluvial
2134	46	440	100	435.2	4	431.2	10	425.2	6.0	10	Syenite	5.0	10.0	5.0	149.3	26.6	Alluvial	4.9	9.5	4.6	151.9	27.1	Alluvial
2135	46	439	100	432.9	3	429.9	3.9	429.0	0.9	11.8	Monzonite	3.0	11.0	8.0	28.6	2.0	Eluvial+Alluvial						
2136	46	438	100	432.4	1.8	430.6	6.0	426.4	4.2	11.2	Monzonite	1.8	11.0	9.2	32.1	6.9	Eluvial+Alluvial	2.8	4.0	1.2	62.8	18.4	Alluvial
2137	46	219	103	434.0	1.5	432.5	4.0	430.0	2.5	13.8	Monzonite	2.6	13.8	11.2	19.8	2.7	Eluvial+Alluvial	2.7	4.0	1.3	52.5	10.2	Alluvial
2138	46	437	103	435.0	2.8	432.2	5.2	429.8	2.4	13.5	Syenite	2.7	13.5	10.8	18.1	2.9	Eluvial+Alluvial						
2139	46	436	98	437.6	2.3	435.3	8.3	429.3	6.0	22.5	Syenite	5.5	20.0	14.5	18.5	2.7	Eluvial+Alluvial	7.3	8.4	1.1	71.5	19.0	Alluvial
2140	46	435	98	440.4	2.9	437.5	9.8	430.6	6.9	18.5	Syenite	7.0	18.5	11.5	16.1	3.6	Eluvial+Alluvial						
2141	46	434	108	442.9	3.2	439.7	10.9	432.0	7.7	30.0	Syenite	7.2	11.0	3.8	25.0	6.6	Alluvial						
2142	46	433	106	444.8	2.5	442.3	2.5	442.3		22.0	Syenite	2.5	22.0	19.5	14.5	4.2	Eluvial						
2143	46	1313	98	447.2	1.4	445.8	1.4	445.8		10.0	Syenite	1.4	10.0	8.6	21.3	3.0	Eluvial						
2144	46	1312	105	448.9	3.9	445.0	3.9	445.0		5.0	Granite												
2145	46	1311	104	449.5	1.0	448.5	1.0	448.5		5.7	Granite												
2146	46	1310	107	450.4	0.3	450.1	0.3	450.1		2.9	Granite												
2147	48	1468		441.2	4.0	437.2	4.0	437.2		13.0	Syenite	4.0	13.0	9.0	28.1	1.0	Eluvial						
2148	48	1467	100	439.8	3.5	436.3	3.5	436.3		8.5	Syenite	3.7	8.0	4.3	21.8	0.9	Eluvial						
2149	48	1466	102	440.7	4.6	436.1	9.8	430.9	5.2	11.3	Syenite	4.6	11.3	6.7	15.4	1.5	Eluvial+Alluvial						
2150	48	1465	107	441.3	6.0	435.3	13.3	428.0	7.3	13.3	Syenite	6.0	13.3	7.3	46.6	6.9	Alluvial	8.1	13.3	5.2	53.5	7.9	Alluvial
2151	48	1464	93	441.9	6.9	435.0	12.0	429.9	5.1	14.0	Granite	6.9	12.0	5.1	61.1	8.2	Alluvial	10.0	12.0	2.0	100.1	12.0	Alluvial
2152	48	1463	98	442.6	7.7	434.9	11.0	431.6	3.3	14.7	Granite	7.7	14.7	7.0	50.0	2.6	Eluvial+Alluvial	12.1	14.0	1.9	63.0	0.3	Eluvial
2153	48	1462	100	443.3	5.4	437.9	8.9	434.4	3.5	15.2	Granite	5.4	15.2	9.8	26.7	2.1	Eluvial+Alluvial	6.0	7.0	1.0	65.3	5.6	Alluvial
2154	48	1462A	98	443.8	6.0	437.8	6.0	437.8		11.1	Syenite	6.0	11.1	5.1	20.4	2.3	Eluvial						
2155	48	4296	102	444.3	7.8	436.5	9.9	434.4	2.1	18.5	Syenite	7.8	18.0	10.2	23.4	0.6	Eluvial+Alluvial						
2156	48	1797	272	443.4	1.0	442.4	1.0	442.4		3.0	Syenite	1.0	3.0	2.0	12.5	0.4	Eluvial						
2157	48	1796	202	440.5	2.8	437.7	2.8	437.7		7.5	Gabbro	5.0	7.5	2.5	24.6	0.6	Eluvial						
2158	48	1795	200	437.0	3.8	433.2	3.8	433.2		14.5	Syenite	3.7	10.0	6.3	19.8	0.7	Eluvial						
2159	48	1794	200	434.3	1.5	432.8	1.5	432.8		4.0	Gabbro	1.5	4.0	2.5	15.1	1.8	Eluvial						
2160	48	1793	200	433.9	4.1	429.8	4.1	429.8		15.0	Syenite	4.1	15.0	10.9	10.4	1.6	Eluvial						
2161	48	2507	98	434.3	4.0	430.3	13.2	421.1	9.2	15.0	Monzonite	8.0	14.5	6.5	46.8	8.2	Eluvial+Alluvial	11.0	13.2	2.2	114.4	19.5	Alluvial
2162	48	1792	104	434.2	4.0	430.2	10.0	424.2	6.0	12.0	Monzonite	4.0	12.0	8.0	44.5	6.2	Eluvial+Alluvial	6.0	10.6	4.6	63.6	9.4	Alluvial
2163	48	2508	100	434.2	4.6	429.6	10.5	423.7	5.9	11.8	Syenite	4.6	11.5	6.9	146.0	21.4	Eluvial+Alluvial	5.8	11.5	5.7	166.5	21.4	Eluvial+Alluvial
2164	48	1791	98	434.7	3.4	431.3	6.5	428.2	3.1	11.0	Syenite	3.4	7.0	3.6	30.0	5.0	Eluvial+Alluvial	6.5	6.9	0.4	115.4	17.8	Eluvial
2165	48	2509	100	435.7	4.0	431.7	8.0	427.7	4.0	16.0	Syenite	4.8	16.2	11.4	30.0	5.0	Eluvial+Alluvial	4.7	5.9	1.2	63.7	13.8	Alluvial
2166	48	1790	100	437.5	3.0	434.5	11.0	426.5	8.0	14.0	Monzonite	8.2	14.0	5.8	26.8	5.7	Eluvial+Alluvial						
2167	48	2510	100	438.2	4.2	434.0	16.8	421.4	12.6	28.6	Monzonite	8.0	28.5	20.5	28.9	6.1	Eluvial+Alluvial	9.8	15.4	5.6	57.0	14.5	Alluvial
2168	48	1789	98	438.8	2.8	436.0	7.0	431.8	4.2	28.0	Syenite	2.8	23.0	20.2	12.8	3.4	Eluvial+Alluvial						
2169	48	2511	104	440.4	2.0	438.4	7.5	432.9	5.5	30.1	Syenite	6.0	30.0	24.0	17.4	4.1	Eluvial+Alluvial						
2170	48	1788	98	443.0	2.5	440.5	2.5	440.5		21.0	Granite												
2171	48	2522	104	444.8	5.0	439.8	5.0	439.8		11.5	Granite												
2172	48	1787	194	447.3	4.0	443.3	4.0	443.3		14.0	Granite												
2173	48	1786	84	450.5	2.5	448.0	2.5	448.0		18.0	Granite												
2174	50	3549		480.0	2.0	478.0	11.4	468.6	9.4	25.5	Syenite												
2175	50	2034	82	479.0	3.2	475.8	7.5	471.5	4.3	22.0	Syenite	17.5	19.5	2.0	10.2	1.9	Eluvial						
2176	50	3548	104	478.7	3.0	475.7	7.2	471.5	4.2	15.7	Syenite												
2177	50	2033	96	477.7	2.3	475.4	15.0	462.7	12.7	24.1	Syenite	15.0	24.0	9.0	12.7	2.0	Eluvial						
2178	50	3547	112	477.0	2.0	475.0	8.0	469.0	6.0	19.0	Syenite	8.0	10.0	2.0	3.1	3.5	Eluvial						
2179	50	1972	112	476.7	2.0	474.7	14.4	462.3	12.4	23.3	Syenite												
2180	50	3546	96	476.1	6.4	469.7	20.2	455.9	13.8	29.0	Syenite	20.2	26.0	5.8	16.4	2.6	Eluvial+Alluvial						
2181	50	1971	106	475.5	3.0	472.5	10.4	465.1	7.4	21.1	Syenite	7.0	21.0	14.0	13.7	2.2	Eluvial+Alluvial						
2182	50	3545	100	475.2	2.2	473.0	6.5	468.7	4.3	21.0	Syenite	9.0	18.0	9.0	14.4	1.9	Eluvial+Alluvial						
2183	50	1970	100	475.7	4.0	471.7	7.8	467.9	3.8	24.0	Syenite	12.0	16.0	4.0	11.5	1.4	Eluvial						
2184	50	3544	100	475.7	2.8	472.9	11.2	464.5	8.4	27.9	Syenite	11.2	27.1	15.9	13.3	1.5	Eluvial						
2185	50	1969	100	474.7	5.9	468.8	18.6	456.1	12.7	27.2	Syenite	16.5	27.1	10.6	22.3	2.3	Eluvial+Alluvial						
2186	50	3543	98	473.6	0.8	472.8	11.5	462.1	10.7	33.2	Syenite	11.5	32.8	21.3	13.1	2.1	Eluvial						
2187	50	1968	106	472.2	1.0	471.2	9.5	462.7	8.5	23.0	Syenite	6.2	22.0	15.8	12.7	1.4	Eluvial+Alluvial						
2188	50	3542	94	470.3	1.5	468.8	4.3	466.0	2.8	16.4	Syenite	4.3	11.7	7.4	14.5	1.6	Eluvial						
2189	50	1967	102	467.9	3.0	464.9	3.0	464.9		11.0	Syenite	3.0	11.0	8.0	15.2	1.8	Eluvial						
2190	50	3541	90	465.9	3.0	462.9	3.0	462.9		24.0	Syenite	3.0	15.0	12.0	13.7	1.7	Eluvial						
2191	50	1966	114	463.0	4.8	458.2	4.8	458.2		13.5	Syenite	4.8	13.4	8.6	16.1	1.8	Eluvial						
2192	50	3540	100	460.6	3.8	456.8	3.8	456.8		18.5	Syenite	4.0	18.0	14.0	16.9	2.3	Eluvial						
2193	50	1965	100	458.3	3.0	455.3	3.0	455.3		14.5	Syenite	3.0	14.0	11.0	15.4	1.6	Eluvial						
2194	50	3539	90	458.1	1.8	456.3	1.8	456.3		13.4	Syenite	1.8	12.6	10.8	19.2	2.2	Eluvial						
2195	50	1964	108	453.5	0.5	453.0	6.6	446.9	6.1	10.7	Syenite	3.3	4.5	1.2	18.2	2.4	Alluvial						
2196	50	3538	100	452.4	3.5	448.9	13.7	438.7	10.2	19.1	Syenite	10.0	16.2	6.2	30.8	6.0	Eluvial+Alluvial	11.7	13.7	2.0	55.3	9.9	Alluvial
2197	50	1963	100	452.1	5.0	447.1	13.9	438.2	8.9	16.0	Syenite	3.9	13.9	10.0	25.1	4.6	Alluvial						
2198	50	4103	104	451.5	7.6	443.9	12.4	439.1	4.8	14.8	Syenite	11.8	14.7	2.9	17.4	3.0	Eluvial+Alluvial						
2199	50	1962	98	452.2	7.0	445.2	11.8	440.4	4.8	17.5	Syenite	10.0	11.8	1.8	12.4	1.4	Alluvial						
2200	50	3537	98	452.3	10.8	441.5	10.8	441.5		19.4	Syenite	15.0	17.0	2.0	16.5	0.2	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASE LIMIT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
2201	50	1961	102	451.8	9.0	442.8	10.6	441.2	1.6	20.1	Gabbro	9.0	20.0	11.0	28.1	0.8	Eluvial+Alluvial						
2202	50	3536	98	449.9	7.1	442.8	8.9	441.0	1.8	17.1	Syenite	7.1	13.0	5.9	18.1	0.9	Eluvial+Alluvial						
2203	50	1960	105	449.0	11.0	438.0	11.0	438.0		19.7	Gabbro	11.0	18.7	7.7	19.6	0.7	Eluvial						
2204	50	3535	92	447.4	5.0	442.4	5.0	442.4		25.3	Gabbro	5.0	24.8	19.8	27.7	1.0	Eluvial						
2205	50	1959	100	445.0	6.8	438.2	16.5	428.5	9.7	16.5	Gabbro	6.8	16.0	9.2	20.6	0.5	Eluvial						
2206	50	3534	96	441.3	3.1	438.2	11.8	429.5	8.7	16.1	Gabbro	3.1	11.8	8.7	37.9	5.6	Alluvial	9.0	10.8	1.8	54.4	7.4	Alluvial
2207	50	1958	108	437.5	3.5	434.0	3.5	434.0		15.5	Syenite	3.5	15.0	11.5	19.0	1.2	Eluvial						
2208	50	3533	100	436.3	6.0	430.3	11.1	425.2	5.1	15.3	Gabbro	6.0	13.0	7.0	48.7	7.9	Eluvial+Alluvial	5.8	11.2	5.4	60.7	9.8	Alluvial
2209	50	1957	94	437.6	3.4	434.2	10.2	427.4	6.8	12.0	Syenite	3.4	11.4	8.0	53.5	8.8	Eluvial+Alluvial	8.7	11.4	2.7	68.9	11.1	Alluvial
2210	50	3532	108	437.9	5.1	432.8	5.1	432.8		19.1	Syenite	7.0	15.0	8.0	15.5	1.0	Eluvial						
2211	50	1956	92	440.2	5.6	434.6	5.6	434.6		11.0	Syenite	5.1	7.0	1.9	23.8	2.0	Eluvial						
2212	50	4101	100	441.0	5.5	435.5	5.5	435.5		14.5	Syenite	5.5	14.0	8.5	16.6	0.8	Eluvial						
2213	50	1955	100	441.2	5.0	436.2	5.0	436.2		15.0	Syenite	6.3	8.0	1.7	19.5	0.5	Eluvial						
2214	50	1908	246	442.3	4.0	438.3	4.0	438.3		11.0	Syenite	4.0	11.0	7.0	17.6	1.7	Eluvial						
2215	50	1112	632	436.9	4.2	432.7	4.2	432.7		8.0	Syenite	4.2	8.0	3.8	18.6	0.8	Eluvial						
2216	50	1111	100	435.4	4.0	431.4	6.2	429.2	2.2	8.5	Syenite	4.0	5.1	1.1	12.1	2.2	Alluvial						
2217	50	1110	100	434.0	3.5	430.5	5.6	428.4	2.1	10.6	Syenite	3.5	10.6	7.1	29.8	4.1	Eluvial+Alluvial	3.5	4.5	1.0	60.7	12.6	Alluvial
2218	50	1109	100	433.4	3.5	429.9	5.5	427.9	2.0	20.0	Syenite	3.5	20.0	16.5	20.9	2.9	Eluvial+Alluvial						
2219	50	1108	98	433.2	4.7	428.5	11.7	421.5	7.0	21.0	Syenite	9.0	21.0	12.0	20.8	4.2	Eluvial+Alluvial	10.7	11.7	1.0	84.8	13.9	Alluvial
2220	50	1107	102	431.7	3.7	428.0	10.5	421.2	6.8	12.0	Syenite	6.0	12.0	6.0	32.5	5.3	Eluvial+Alluvial	9.3	10.3	1.0	93.1	16.3	Alluvial
2221	50	1106	98	413.8	2.2	411.6	10.5	403.3	8.3	13.5	Monzonite	6.0	13.5	7.5	73.4	12.4	Eluvial+Alluvial	7.0	10.5	3.5	127.8	22.5	Alluvial
2222	50	1105	102	434.7	6.0	428.7	11.0	423.7	5.0	18.0	Monzonite	7.0	18.0	11.0	47.1	8.2	Eluvial+Alluvial	7.8	10.9	3.1	124.7	23.0	Alluvial
2223	50	218	102	436.6	4.2	432.4	10.1	426.5	5.9	19.4	Syenite	4.2	14.0	9.8	28.5	4.5	Eluvial+Alluvial						
2224	50	1104	94	438.3	3.3	435.0	8.0	430.3	4.7	20.8	Syenite	5.0	20.8	15.8	14.7	3.9	Eluvial+Alluvial						
2225	50	1103	102	439.4	2.5	436.9	2.5	436.9		14.0	Granite												
2226	50	1102	104	440.1	2.8	437.3	2.8	437.3		20.0	Granite												
2227	50	1101	100	441.2	2.8	438.4	2.8	438.4		24.2	Granite												
2228	50	1100	98	441.9	3.5	438.4	3.5	438.4		20.0	Granite												
2229	50	1099	98	443.6	6.7	436.9	6.7	436.9		18.0	Granite												
2230	50	1098	104	445.6	6.0	439.6	6.0	439.6		17.0	Granite												
2231	50	1097	100	446.5	7.0	439.5	7.0	439.5		15.0	Granite												
2232	52	553		486.7	10.0	476.7	10.0	476.7		10.1	Hornfels												
2233	52	4250	100	485.7	11.0	474.7	11.0	474.7		11.2	Syenite												
2234	52	4010	102	481.7	4.1	477.6	13.4	468.3	9.3	19.0	Syenite												
2235	52	4249	103	477.8	7.9	469.9	32.0	445.8	24.1	34.0	Syenite	27.0	32.0	5.0	14.5	5.3	Alluvial						
2236	52	4011	104	475.7	3.6	472.1	27.8	447.9	24.2	30.2	Syenite	23.0	28.0	5.0	13.2	4.0	Alluvial						
2237	52	4012	98	474.7	4.5	470.2	24.0	450.7	19.5	26.7	Monzonite												
2238	52	4013	98	474.0	5.0	469.0	21.0	453.0	16.0	25.0	Syenite												
2239	52	4019	98	474.0	4.4	469.6	24.7	449.3	20.3	27.3	Monzonite	19.0	27.0	8.0	18.9	2.8	Eluvial+Alluvial						
2240	52	4020	92	472.8	4.2	468.6	21.0	451.8	16.8	30.0	Syenite	21.0	30.0	9.0	9.6	1.6	Eluvial						
2241	52	4021	102	471.0	2.3	468.7	14.8	456.2	12.5	22.5	Syenite	18.0	22.3	4.3	12.9	2.1	Eluvial						
2242	52	4025	90	471.2	3.2	468.0	23.0	448.2	19.8	27.0	Syenite	17.0	27.0	10.0	40.2	5.7	Eluvial+Alluvial	19.7	23.3	3.6	71.0	11.8	Alluvial
2243	52	4248	98	471.0	4.4	466.6	16.0	455.0	11.6	27.2	Syenite	16.0	22.0	6.0	14.2	1.1	Eluvial						
2244	52	277	91	470.3	6.2	464.1	10.0	460.3	3.8	12.0	Syenite												
2245	52	4247	80	470.1	5.6	464.5	17.4	452.7	11.8	24.4	Syenite	9.0	23.0	14.0	13.2	1.8	Eluvial+Alluvial						
2246	52	1289	124	470.0	5.7	464.3	19.8	450.2	14.1	22.5	Syenite	17.8	18.8	1.0	9.4	2.1	Alluvial						
2247	52	4246	88	469.9	5.0	464.9	24.5	445.4	19.5	30.0	Syenite	19.0	29.5	10.5	26.8	3.7	Eluvial+Alluvial	20.6	21.2	0.6	107.1	14.4	Alluvial
2248	52	1478	106	469.7	4.6	465.1	22.7	447.0	18.1	23.6	Syenite	14.0	23.6	9.6	18.4	4.0	Eluvial+Alluvial						
2249	52	1477	98	468.8	2.6	466.2	13.7	455.1	11.1	20.0	Syenite	12.0	20.0	8.0	16.8	3.2	Eluvial+Alluvial						
2250	52	1476	98	467.5	4.0	463.5	10.4	457.1	6.4	12.5	Syenite	10.0	12.5	2.5	14.5	2.6	Eluvial+Alluvial						
2251	52	1288	106	465.7	1.6	464.1	17.2	448.5	15.6	19.5	Syenite	8.0	19.5	11.5	14.9	2.5	Eluvial+Alluvial	15.6	16.2	0.6	72.3	11.5	Alluvial
2252	52	1587	116	463.9	2.0	461.9	11.0	452.9	9.0	15.0	Syenite	10.0	15.0	5.0	17.0	2.9	Eluvial+Alluvial						
2253	52	1586	206	460.2	2.0	458.2	6.9	453.3	4.9	16.0	Syenite	5.0	15.0	10.0	36.6	2.3	Eluvial+Alluvial	6.9	10.7	3.8	58.8	1.8	Eluvial
2254	52	4244	108	457.9	2.9	455.0	2.9	455.0		15.0	Syenite	2.9	14.6	11.7	15.4	1.6	Eluvial						
2255	52	1585	86	456.0	0.7	455.3	0.7	455.3		1.5	Syenite	0.7	1.5	0.8	13.6	1.8	Eluvial						
2256	52	1584	105	454.3	2.0	452.3	2.0	452.3		8.0	Syenite	2.0	8.0	6.0	25.0	2.6	Eluvial						
2257	52	453	56	450.5	1.0	449.5	1.0	449.5		2.8	Syenite												
2258	52	4243	100	448.7	0.2	448.5	0.2	448.5		12.5	Syenite		10.0	10.0	20.9	1.9	Eluvial						
2259	52	4245	100	446.4	2.0	444.4	4.1	442.3	2.1	13.0	Syenite	3.8	12.2	8.4	15.3	1.6	Eluvial						
2260	52	4242	84	446.8	2.1	444.7	13.5	433.3	11.4	15.4	Gabbro	7.0	15.0	8.0	34.0	6.3	Eluvial+Alluvial						
2261	52	275	104	447.4	1.9	445.5	3.9	443.5	2.0	9.7	Syenite	1.9	3.9	2.0	33.0	3.5	Alluvial						
2262	52	3959	98	447.5	3.7	443.8	14.8	432.7	11.1	29.0	Gabbro	14.8	28.5	13.7	31.7	0.9	Eluvial						
2263	52	273	102	446.9	3.9	443.0	15.1	431.8	11.2	19.0	Gabbro	10.8	15.1	4.3	49.6	8.8	Alluvial	13.6	15.1	1.5	57.6	11.0	Alluvial
2264	52	1582	100	445.8	5.4	440.4	5.4	440.4		22.0	Gabbro	5.4	22.0	16.6	15.3	1.0	Eluvial+Alluvial						
2265	52	274	100	444.8	6.9	437.9	6.9	437.9		20.4	Gabbro	19.4	20.4	1.0	22.1		Eluvial						
2266	52	272	202	442.2	6.0	436.2	6.0	436.2		16.5	Gabbro	6.0	12.0	6.0	15.9	0.6	Eluvial						
2267	52	2068	168	438.0	7.0	431.0	7.0	431.0		20.6	Gabbro	7.0	18.0	11.0	27.7	1.9	Eluvial	7.0	8.1	1.1	84.7	11.2	Eluvial
2268	52	271	32	437.6	7.0	430.6	7.0	430.6		12.5	Gabbro	7.0	12.5	5.5	16.0	0.7	Eluvial						
2269	52	1532	86	435.3	2.0	433.3	10.0	425.3	8.0	10.5	Gabbro	3.0	10.5	7.5	51.1	8.3	Eluvial+Alluvial	6.8	9.7	2.9	68.7	10.4	Alluvial
2270	52	270	112	433.9	2.0	431.9	10.2	423.7	8.2	11.0	Syenite	2.0	10.2	8.2	41.2	6.1	Alluvial	4.4	7.1	2.7	61.5	9.1	Alluvial
2271	52	1531	86	434.2	1.8	432.4	5.0	429.2	3.2	6.2	Syenite	1.8	6.2	4.4	44.4	6.8	Eluvial+Alluvial	1.8	4.9	3.1	52.6	8.3	Alluvial
2272	52	1286	96	434.3	3.0	431.3	3.0	431.3		7.2	Syenite	3.0	6.0	3.0	26.2	1.3	Eluvial						
2273	52	3659	112	432.8	2.5	430.3	2.5	430.3		11.0	Syenite	2.5	6.0	3.5	20.3	0.7	Eluvial						
2274	52	3658	112	435.0	6.1	428.9	6.1	428.9		15.0	Gabbro	12.0	14.5	2.5	22.3		Eluvial						
2275	52	3657	102	437.2	6.3	430.9	6.3	430.9		14.0	Gabbro	8.0	14.0	6.0	26.2		Eluvial						
2276	52	3656	100	438.3	6.7	431.6	6.7	431.6		14.1	Gabbro	6.7	13.5	6.8	20.4		Eluvial						
2277	52	3655	102	439.2	7.0	432.2	7.0	432.2		18.5	Syenite	10.0	18.0	8.0	23.3	0.5	Eluvial						
2278	52	3654	98	439.6	5.8	433.8	5.8	433.8		18.3	Syenite	5.8	13.0	7.2	26.8		Eluvial						
2279	52	3653	98	439.6	4.1	435.5	4.1	435.5		10.3	Gabbro	4.1	10.0	5.9	16.9	1.1	Eluvial						
2280	52	3652	100	439.2	5.1	434.1	5.1	434.1		6.0	Gabbro												
2281	52	3651	206	438.3	4.9	433.4	4.9	433.4		7.0	Gabbro												
2282	52	3650	100	438.6	4.0	434.6	4.0	434.6		7.0	Syenite	4.0	6.0	2.0	15.2	0.9	Eluvial						
2283	52	3649	96	438.6	7.5	431.1	7.5	431.1		11.0	Syenite	7.5	10.0	2.5	19.4	2.6	Eluvial						
2284	52	1785	100	438.0	8.0	430.0	17.8	420.2	9.8	23.0	Gabbro	8.0	15.0	7.0	19.2	2.5	Alluvial						
2285	52	3648	62	437.6	8.3	429.3	18.9	418.7	10.6	30.0	Gabbro	8.3	29.5	21.2	22.6	4.2	Eluvial+Alluvial						
2286	52	2499	46	437.6	8.0	429.6	15.0	422.6	7.0	29.2	Gabbro	8.0	29.0	21.0	27.4	3.6	Eluvial+Alluvial	9.2	10.9	1.7	77.4	20.2	Alluvial
2287	52	3647	50	437.7	7.8	429.9	14.9	422.8	7.1	27.0	Gabbro	7.8	26.5	18.7	18.5	2.9	Eluvial+Alluvial	7.8	10.2	2.4	51.1	13.0	Alluvial
2288	52	3626	42	437.8	9.0	428.8	17.0	420.8	8.0	22.3	Syenite	12.3	21.0	8.7	13.8	1.6	Eluvial+Alluvial						
2289	52	3646	56	437.7	8.8	428.9	17.0	420.7	8.2	20.3	Syenite	15.0	19.5	4.5	71.0	13.2	Eluvial+Alluvial	16.3	17.5	1.2	196.5	37.6	Alluvial
2290	52	2500	44	437.5	9.0	428.5	16.5	421.0	7.5	20.5	Syenite	10.4	20.5	10.1	36.4	6.9	Eluvial+Alluvial	14.0	16.4	2.4	91.1	15.5	Alluvial
2291	52	3645	58	437.8	7.5	430.3	16.5	421.3	9.0	20.0	Syenite	12.0	16.5	4.5	73.3	14.0	Alluvial	12.0	16.5	4.5	73.3	14.0	Alluvial
2292	52	1783	38	438.0	6.0	432.0	15.6	422.4	9.6	18.5	Syenite	9.3	16.5	7.2	59.6	10.3	Eluvial+Alluvial	8.9	15.5	6.6	62.3	10.9	Alluvial
2293	52	3644	46	438.3	8.5	429.8	14.1	424.2	5.6	22.0	Syenite	8.5	16.0	7.5	111.1	19.0	Eluvial+Alluvial	8.5	16.0	7.5	111.1	19.0	Alluvial
2294	52	3643	50	438.9	8.4	430.5	15.6	423.3	7.2	18.0	Granite	8.4	15.6	7.2	62.3	10.9	Alluvial	8.4	15.6	7.2	62.3	10.9	Alluvial
2295	52	2501	42	439.3	8.0	431.3	12.8	426.5	4.8	26.7	Granite	12.3	12.8	0.5	118.3	18.5	Alluvial	12.3	12.8	0.5	118.3	18.5	Alluvial
2296	52	1782	66	440.2	7.2	433.0	11.8	428.4	4.6	26.0	Granite	9.7	11.8	2.1	27.5	6.7	Alluvial	10.6	11.8	1.2	105.0	24.6	Alluvial
2297	52	3642	58	441.1	7.1	434.0	14.0	427.1	6.9	17.0	Granite	11.0	14.0	3.0	51.9	12.3	Alluvial	12.8	13.9	1.1	87.4	21.4	Alluvial
2298	52	2502	46	441.2	7.5	433.7	15.9	425.3	8.4	21.6	Granite	10.5	18.0	7.5	47.7	8.9	Eluvial+Alluvial	13.3	15.8	2.5	89.5	18.6	Alluvial
2299	52	3641	40	441.4	7.1	434.3	13.1	428.3	6.0	15.0	Granite	7.1	15.0	7.9	31.5	7.6	Eluvial+Alluvial	11.0	13.1	2.1	67.7	16.8	Alluvial
2300	52	1781	44	441.6	7.0	434.6	15.5	426.1	8.5	23.0	Granite	9.5	20.0	10.5	29.8	6.7	Eluvial+Alluvial	14.8	19.9	5.1	55.3	8.7	Alluvial
2301	52	3640	70	441.9	6.5	435.4	17.9	424.0	11.4	20.0	Granite	6.5	18.0	11.5	26.5	6.5	Alluvial	14.2	18.0	3.8	57.5	13.6	Alluvial
2302	52	2503	46	442.1	7.2	434.9	18.6	423.5	11.4	28.2	Granite	13.0	19.0	6.0	38.5	9.1	Eluvial+Alluvial	17.5	18.6	1.1	80.6	18.5	Alluvial
2303	52	3639	44	442.2	6.6	435.6	18.5	423.7	11.9	32.0	Granite	6.6	18.5	11.9	22.6	5.3	Alluvial	16.5	18.5	2.0	92.2	18.9	Alluvial
2304	52	1780	50	442.2	5.2	437.0	17.0	425.2	11.8	25.0	Granite	5.2	17.0	11.8	16.1	3.4	Alluvial	16.0	17.0	1.0	51.3	9.4	Alluvial
2305	52	2504	102	442.7	8.0	434.7	13.5	429.2	5.5	18.0	Granite	8.0	13.5	5.5	4.9	3.5	Alluvial						
2306	52	1779	98	443.6	7.8	435.8	9.5	434.1	1.7	18.0	Granite												
2307	52	2550	104	444.3	10.7	433.6	14.0	430.3	3.3	18.2	Granite												
2308	52	1778	74	445.0	7.0	438.0	10.4	434.6	3.4	14.0	Granite												
2309	54	2056		470.9	7.3	463.6	12.5	458.4	5.2	14.5	Syenite												
2310	54	3828	102	469.5	5.0	464.5	24.2	445.3	19.2	24.5	Syenite	20.0	24.1	4.1	18.5	4.5	Alluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
2311	54	2055	96	470.0	5.3	464.7	24.2	445.8	18.9	26.5	Syenite	17.7	24.5	6.8	18.5	3.0	Alluvial						
2312	54	3829	102	469.0	4.1	464.9	26.0	443.0	21.9	26.5	Syenite	23.8	25.7	1.9	21.5	3.9	Alluvial						
2313	54	2054	97	467.8	5.8	462.0	22.8	445.0	17.0	25.0	Monzonite	20.0	25.0	5.0	14.9	2.7	Eluvial+Alluvial						
2314	54	3830	86	466.3	2.6	463.7	22.5	443.8	19.9	24.0	Monzonite	18.0	22.5	4.5	10.1	2.1	Alluvial						
2315	54	2053	89	465.0	4.0	461.0	20.9	444.1	16.9	22.8	Syenite	18.0	21.0	3.0	19.5	3.6	Alluvial						
2316	54	3831	122	463.8	2.9	460.9	11.1	452.7	8.2	14.0	Syenite	11.0	13.0	2.0	11.5	1.4	Eluvial						
2317	54	2052	96	463.2	1.8	461.4	12.0	451.2	10.2	17.0	Syenite	15.0	16.9	1.9	12.3	1.7	Eluvial						
2318	54	3832	104	462.5	3.0	459.5	11.9	450.6	8.9	17.0	Syenite	14.0	16.0	2.0	10.3	1.5	Eluvial						
2319	54	2051	97	462.0	8.9	453.1	21.0	441.0	12.1	22.0	Syenite	14.0	21.0	7.0	21.3	3.9	Alluvial						
2320	54	3833	100	462.3	4.3	458.0	16.8	445.5	12.5	20.0	Syenite	14.7	20.0	5.3	12.7	1.9	Eluvial+Alluvial						
2321	54	2050	98	462.5	5.9	456.6	17.8	444.7	11.9	25.5	Syenite	14.0	25.4	11.4	12.5	1.7	Eluvial+Alluvial						
2322	54	3834	100	461.9	4.9	457.0	19.5	442.4	14.6	29.0	Syenite	17.8	21.0	3.2	11.6	2.1	Eluvial+Alluvial						
2323	54	2049	100	461.2	7.0	454.2	9.6	451.6	2.6	20.9	Syenite	11.7	20.9	9.2	16.8	1.8	Eluvial						
2324	54	3835	104	459.8	4.0	455.8	8.7	451.1	4.7	25.0	Syenite	8.7	17.5	8.8	12.1	1.8	Eluvial+Alluvial						
2325	54	2048	98	459.2	4.9	454.3	11.9	447.3	7.0	22.2	Syenite	14.0	22.0	8.0	17.3	1.8	Eluvial						
2326	54	3836	102	459.1	5.8	453.3	8.3	450.8	2.5	20.5	Syenite	12.5	18.5	6.0	12.1	1.5	Eluvial						
2327	54	2047	90	458.4	5.5	452.9	7.8	450.6	2.3	13.0	Syenite	7.8	13.0	5.2	11.5	2.0	Eluvial+Alluvial						
2328	54	3837	102	456.9	5.4	451.5	5.4	451.5		9.0	Syenite	5.4	7.2	1.8	10.0	1.6	Eluvial						
2329	54	2046	98	455.2	4.0	451.2	4.0	451.2		6.1	Syenite	4.0	6.0	2.0	15.0	1.4	Eluvial						
2330	54	3838	98	453.6	2.2	451.4	2.2	451.4		15.9	Syenite	3.1	8.5	5.4	17.2	2.3	Eluvial						
2331	54	2045	100	449.8	3.8	446.0	3.8	446.0		11.0	Syenite	3.8	11.0	7.2	16.2	3.1	Eluvial						
2332	54	3839	108	446.0	3.0	443.0	3.0	443.0		15.0	Syenite	3.0	10.8	7.8	13.1	2.2	Eluvial						
2333	54	2044	92	444.0	0.5	443.5	2.8	441.2	2.3	17.0	Gabbro	0.5	6.0	5.5	11.4	1.6	Eluvial+Alluvial						
2334	54	2043	195	442.2	5.0	437.2	13.7	428.5	8.7	18.0	Monzonite	5.0	13.2	8.2	46.2	7.4	Alluvial	6.0	10.0	4.0	55.8	8.7	Alluvial
2335	54	2042	199	441.7	1.0	440.7	12.0	429.7	11.0	22.5	Monzonite	6.3	20.0	13.7	18.3	1.4	Eluvial+Alluvial						
2336	54	2041	200	440.8	2.0	438.8	4.3	436.5	2.3	18.2	Gabbro	2.0	17.8	15.8	24.7	1.7	Eluvial	4.2	5.7	1.5	51.2	8.2	Eluvial
2337	54	2040	192	438.8	3.8	435.0	5.6	433.2	1.8	16.2	Gabbro	3.8	16.0	12.2	17.5	1.7	Eluvial+Alluvial						
2338	54	2039	200	435.4	3.5	431.9	17.0	418.4	13.5	21.0	Gabbro	7.0	20.4	13.4	39.4	8.0	Eluvial+Alluvial	12.0	17.0	5.0	60.1	8.2	Alluvial
2339	54	2038	200	432.8	1.1	431.7	7.9	424.9	6.8	12.0	Syenite												
2340	54	2037	190	432.9	2.2	430.7	2.2	430.7		16.7	Gabbro	2.2	16.5	14.3	18.8	0.6							
2341	54	1907	204	437.2	5.2	432.0	9.0	428.2	3.8	14.5	Gabbro	7.0	14.4	7.4	17.5	0.6	Eluvial+Alluvial						
2342	54	1181	220	437.9	5.6	432.3	5.6	432.3		7.0	Gabbro	5.6	7.0	1.4	23.5	6.6	Eluvial						
2343	54	1126	510	439.3	4.0	435.3	4.0	435.3		8.4	Syenite	4.0	8.4	4.4	20.4	3.7	Eluvial						
2344	54	1125	98.5	439.8	5.6	434.2	5.6	434.2		20.2	Syenite	5.6	20.2	14.6	14.3	3.1	Eluvial						
2345	54	1124	100	441.1	9.6	431.5	9.6	431.5		21.5	Syenite	9.6	21.5	11.9	23.3	2.0	Eluvial						
2346	54	1123	100	441.9	9.0	432.9	9.0	432.9		21.0	Granite												
2347	54	3329	48	442.1	10.6	431.5	10.6	431.5		25.5	Granite												
2348	54	1122	50	442.0	10.0	432.0	14.0	428.0	4.0	21.0	Granite	12.0	13.0	1.0	10.5	2.9	Alluvial						
2349	54	1121	98	441.9	12.0	429.9	18.0	423.9	6.0	22.5	Granite	12.0	18.0	6.0	48.7	8.1	Alluvial	15.8	18.0	2.2	95.6	17.7	Alluvial
2350	54	2393	46	441.6	9.0	432.6	18.9	422.7	9.9	27.0	Granite	9.0	18.9	9.9	43.8	7.1	Alluvial	14.0	18.9	4.9	69.7	11.7	Alluvial
2351	54	1120	54	441.3	10.0	431.3	16.2	425.1	6.2	19.9	Granite	10.0	16.2	6.2	79.0	15.1	Alluvial	10.0	16.2	6.2	79.0	15.1	Alluvial
2352	54	217	102	441.2	5.3	435.9	15.1	426.1	9.8	14.2	Granite	11.0	13.2	2.2	55.7	8.7	Alluvial	11.0	12.2	1.2	75.8	9.6	Alluvial
2353	54	3286	54	441.5	3.0	438.5	15.0	426.5	12.0	24.0	Granite	10.0	14.4	4.4	58.2	1.6	Alluvial	12.3	14.4	2.1	111.9	20.4	Alluvial
2354	54	1119	42	442.1	7.5	434.6	15.3	426.8	7.8	19.0	Granite	11.0	15.3	4.3	44.2	10.5	Alluvial	11.6	12.8	1.2	55.0	13.8	Alluvial
2355	54	1118	98	442.9	9.0	433.9	16.0	426.9	7.0	24.0	Granite	11.0	18.0	7.0	36.2	10.7	Eluvial+Alluvial	13.0	15.8	2.8	51.7	12.2	
2356	54	1870	70	443.2	5.0	438.2	12.0	431.2	7.0	18.0	Granite	5.0	12.0	7.0	16.5	2.4	Alluvial						
2357	54	1117	28	443.2	7.7	435.5	16.5	426.7	8.8	30.0	Granite	13.0	16.5	3.5	28.6	6.7	Alluvial	15.5	16.5	1.0	56.4	13.4	Alluvial
2358	54	1116	102	443.1	8.8	434.3	16.2	426.9	7.4	24.0	Granite	8.8	16.2	7.4	23.3	6.2	Alluvial						
2359	54	3234	47	443.2	11.0	432.2	17.0	426.2	6.0	27.0	Granite	11.0	17.0	6.0	25.7	6.5	Alluvial	15.0	17.0	2.0	61.2	1.2	Alluvial
2360	54	1115	55	442.7	7.0	435.7	16.4	426.3	9.4	19.0	Granite	10.0	16.4	6.4	16.7	4.7	Alluvial						
2361	54	1114	100	442.6	5.4	437.2	12.0	430.6	6.6	12.9	Granite	10.5	12.0	1.5	24.4	10.3	Alluvial						
2362	54	3171	72	442.8	7.7	435.1	8.5	434.3	0.8	19.5	Granite												
2363	54	1113	126	442.9	10.0	432.9	10.0	432.9		17.3	Granite	9.0	10.0	1.0	6.3	4.0	Alluvial						
2364	56	1581		454.9	1.4	453.5	8.0	446.9	6.6	13.0	Syenite	8.0	13.0	5.0	15.9	1.8	Eluvial						
2365	56	1580	196	454.0	1.9	452.1	4.2	449.8	2.3	8.0	Syenite	1.9	8.0	6.1	17.4	3.3	Eluvial+Alluvial						
2366	56	1579	202	454.2	3.4	450.8	10.3	443.9	6.9	12.2	Syenite	8.0	12.2	4.2	23.5	4.6	Eluvial+Alluvial						
2367	56	1578	193	452.9	3.0	449.9	8.0	444.9	5.0	18.5	Syenite	4.0	18.5	14.5	20.7	4.6	Eluvial+Alluvial						
2368	56	1577	215	448.7	2.0	446.7	4.7	444.0	2.7	15.0	Syenite	2.5	15.0	12.5	19.6	3.0	Eluvial+Alluvial						
2369	56	1576	205	442.4	1.2	441.2	1.2	441.2		11.0	Syenite	1.2	10.0	8.8	13.7	2.1	Eluvial						
2370	56	2344	212	440.3	1.8	438.5	16.2	424.1	14.4	20.2	Syenite	6.0	15.7	9.7	47.6	8.7	Alluvial	10.2	11.8	1.6	83.7	15.3	Alluvial
2371	56	522	190	439.2	3.4	435.8	11.5	427.7	8.1	18.0	Gabbro	5.8	18.0	12.2	23.2	2.1	Eluvial+Alluvial						
2372	56	1243	110	439.0	4.0	435.0	10.5	428.5	6.5	22.0	Gabbro	9.0	21.0	12.0	22.9	1.5	Eluvial+Alluvial	10.0	10.7	0.7	56.6	9.0	Alluvial
2373	56	2070	87	438.1	2.9	435.2	11.5	426.6	8.6	17.6	Gabbro	5.9	17.5	11.6	22.5	1.9	Eluvial+Alluvial						
2374	56	1241	107	437.0	3.2	433.8	12.0	425.0	8.8	15.1	Gabbro	8.0	15.1	7.1	28.5	3.0	Eluvial+Alluvial	9.0	10.0	1.0	51.3	6.7	Alluvial
2375	56	3485	92	435.4	1.7	433.7	15.3	420.1	13.6	17.6	Gabbro	9.0	17.6	8.6	44.4	6.8	Eluvial+Alluvial	12.0	14.0	2.0	75.9	1.7	Alluvial
2376	56	1239	100	436.2	2.8	433.4	16.7	419.5	13.9	17.7	Gabbro	8.0	17.7	9.7	59.0	9.1	Eluvial+Alluvial	8.0	16.7	8.7	63.4	10.4	Alluvial
2377	56	2526	98	435.5	3.2	432.3	11.9	423.6	8.7	16.9	Gabbro	4.6	16.0	11.4	53.5	6.0	Eluvial+Alluvial	5.6	11.9	6.3	81.9	10.0	Alluvial
2378	56	1237	98	434.5	2.3	432.2	9.0	425.5	6.7	13.3	Gabbro	3.4	13.3	9.9	34.4	3.1	Eluvial+Alluvial	6.7	7.7	1.0	60.8	7.6	Alluvial
2379	56	1236	103	433.4	3.0	430.4	4.0	429.4	1.0	8.0	Gabbro	3.0	8.0	5.0	25.4	2.3	Eluvial+Alluvial	3.0	3.7	0.7	63.6	10.8	Alluvial
2380	56	1235	110	432.4	2.0	430.4	2.8	429.6	0.8	7.8	Gabbro	2.0	7.8	5.8	22.2	1.1	Eluvial+Alluvial						
2381	56	3422	90	432.4	2.8	429.6	7.1	425.3	4.3	16.0	Gabbro	4.5	7.1	2.6	69.3	9.0	Alluvial	4.5	7.1	2.6	69.3	9.0	Alluvial
2382	56	1233	112	432.5	2.0	430.5	5.0	427.5	3.0	9.6	Gabbro	2.0	9.6	7.6	24.7	2.6	Eluvial+Alluvial	3.9	4.6	0.7	72.8	12.6	Alluvial
2383	56	1183	94	434.3	2.9	431.4	2.9	431.4		9.0	Syenite	2.9	9.0	6.1	22.6	1.0	Eluvial						
2384	58	3848		468.8	10.5	458.3	10.5	458.3		11.0	Syenite												
2385	58	3009	100	466.8	3.4	463.4	10.0	456.8	6.6	16.4	Syenite	5.6	12.6	7.0	29.1	4.8	Eluvial+Alluvial						
2386	58	3847	98	465.0	7.4	457.6	12.5	452.5	5.1	22.0	Syenite	8.8	20.0	11.2	20.0	1.9	Eluvial+Alluvial						
2387	58	3008A	110	463.7	5.1	458.6	5.1	458.6		6.0	Syenite												
2388	58	3846	104	462.5	6.7	455.8	6.7	455.8		8.0	Syenite	6.3	8.0	1.7	12.3	1.8	Eluvial						
2389	58	3008	48	461.4	7.2	454.2	7.2	454.2		14.0	Syenite	7.2	14.0	6.8	18.8	2.6	Eluvial						
2390	58	3845	102	460.2	5.0	455.2	5.0	455.2		6.0	Syenite												
2391	58	3844	96	458.7	5.2	453.5	5.2	453.5		14.0	Syenite	5.2	6.0	0.8	8.7	1.6	Eluvial						
2392	58	3843	100	457.2	3.2	454.0	8.5	448.7	5.3	22.5	Syenite	8.5	22.0	13.5	11.5	1.7	Eluvial						
2393	58	3007	100	456.6	6.0	450.6	6.0	450.6		6.0	Syenite												
2394	58	3842	102	456.2	4.7	451.5	4.7	451.5		12.0	Syenite	4.7	6.7	2.0	9.2	1.5	Eluvial						
2395	58	3010	98	455.5	2.5	453.0	10.7	444.8	8.2	15.0	Monzonite	9.0	15.0	6.0	15.4	1.7	Eluvial+Alluvial						
2396	58	3841	98	454.6	2.2	452.4	20.5	434.1	18.3	24.6	Syenite	12.3	24.1	11.8	24.2	3.6	Eluvial+Alluvial						
2397	58	3006	102	454.5	5.2	449.3	19.1	435.4	13.9	24.4	Syenite	13.3	24.2	10.9	16.9	3.3	Eluvial+Alluvial						
2398	58	3840	100	454.2	4.1	450.1	23.6	430.6	19.5	26.5	Syenite	13.1	25.0	11.9	32.4	5.8	Eluvial+Alluvial	21.3	23.3	2.0	62.5	0.9	Alluvial
2399	58	3005	76	453.7	3.6	450.1	16.2	437.5	12.6	25.0	Monzonite	15.0	24.9	9.9	16.6	2.8	Eluvial+Alluvial						
2400	58	3686	106	453.1	4.3	448.8	18.1	435.0	13.8	26.3	Syenite	8.2	25.6	17.4	14.7	3.1	Eluvial+Alluvial						
2401	58	3004	94	452.7	1.9	450.8	13.0	439.7	11.1	17.8	Syenite	13.0	17.6	4.6	16.7	1.2	Eluvial						
2402	58	3685	102	452.4	2.0	450.4	15.9	436.5	13.9	24.6	Syenite	6.9	24.8	17.9	16.0	3.8	Eluvial+Alluvial	12.8	13.6	0.8	54.8	5.3	Alluvial
2403	58	3003	96	452.4	1.9	450.5	13.1	439.3	11.2	21.0	Syenite	11.0	21.0	10.0	12.5	2.1	Eluvial+Alluvial						
2404	58	3684	100	452.4	2.9	449.5	10.0	442.4	7.1	21.7	Syenite	7.8	19.0	11.2	14.2	3.7	Eluvial+Alluvial						
2405	58	3002	96	452.3	3.0	449.3	10.5	441.8	7.5	27.5	Syenite	4.4	25.3	20.9	19.0	4.1	Eluvial+Alluvial						
2406	58	3683	120	451.6	4.5	447.1	10.5	441.1	6.0	25.5	Syenite	5.9	24.2	18.3	15.7	3.2	Eluvial+Alluvial						
2407	58	3001	98	450.1	3.2	446.9	10.9	439.2	7.7	17.0	Syenite	3.2	16.7	13.5	17.3	3.5	Eluvial+Alluvial						
2408	58	3776	80	448.8	5.0	443.8	11.0	437.8	6.0	23.8	Syenite	5.2	21.5	16.3	18.8	2.9	Eluvial+Alluvial						
2409	58	3000	98	446.8	2.0	444.8	4.5	442.3	2.5	21.0	Syenite	3.5	21.0	17.5	10.5	1.8	Eluvial+Alluvial						
2410	60	4192		471.4	1.7	469.7	1.7	469.7		2.0	Syenite												
2411	60	4193	84	470.2	3.2	467.0	3.2	467.0		3.5	Syenite												
2412	60	3849	87	468.7	5.8	462.9	5.8	462.9		13.0	Syenite	5.7	9.8	4.1	16.7	1.6	Eluvial						
2413	60	3850	100	467.0	8.0	459.0	8.0	459.0		14.5	Syenite	8.9	14.0	5.1	27.4	3.1	Eluvial						
2414	60	3851	95	465.3	9.8	455.5	9.8	455.5		25.0	Syenite	11.7	24.0	12.3	20.1	3.1	Eluvial						
2415	60	514	114	462.9	8.3	454.6	8.3	454.6		11.2	Syenite	5.0	10.0	5.0	16.5	1.3	Eluvial+Alluvial						
2416	60	3852	84	461.4	7.4	454.0	7.4	454.0		16.0	Syenite	7.4	15.5	8.1	12.4	1.9	Eluvial						
2417	60	512	108	459.7	5.7	454.0	5.7	454.0		7.1	Syenite	5.7	7.1	1.4	40.2	11.9	Eluvial						
2418	60	3853	120	457.4	4.8	452.6	4.8	452.6		8.0	Syenite	4.8	7.5	2.7	12.4	1.6	Eluvial						
2419	60	3696	98	455.8	3.7	452.1	3.7	452.1		8.8	Syenite	2.1	3.7	1.6	7.0	0.9	Alluvial						
2420	60	3695	98	454.7	5.1	449.6	5.1	449.6		8.5	Syenite	5.1	7.0	1.9	9.9	1.5	Eluvial						

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
2421	60	3988	94	453.7	2.9	450.8	2.9	450.8		7.0	Syenite	2.9	6.8	3.9	13.3	1.5	Eluvial						
2422	60	3694	104	453.0	4.5	448.5	4.5	448.5		21.5	Syenite	4.5	20.0	15.5	15.9	2.3	Eluvial						
2423	60	3987	92	452.5	5.2	447.3	5.2	447.3		14.4	Syenite	5.2	14.0	8.8	19.0	1.9	Eluvial						
2424	60	3693	98	451.7	3.0	448.7	3.0	448.7		16.9	Syenite	3.0	14.0	11.0	17.7	1.9	Eluvial						
2425	60	3986	98	450.9	3.0	447.9	5.0	445.9	2.0	16.0	Syenite	9.0	15.8	6.8	14.7	1.2	Eluvial						
2426	60	3692	102	450.3	0.3	450.0	17.1	433.2	16.8	22.0	Syenite	12.0	19.0	7.0	20.7	3.7	Eluvial+Alluvial						
2427	60	3691	98	449.5	1.0	448.5	18.4	431.1	17.4	21.0	Syenite	12.4	20.3	7.9	26.0	5.3	Eluvial+Alluvial						
2428	60	3854	100	449.0	3.0	446.0	18.4	430.6	15.4	21.0	Syenite	14.8	23.0	8.2	25.1	5.1	Eluvial+Alluvial						
2429	60	3690	98	449.2	3.0	446.2	21.9	427.3	18.9	23.5	Syenite	12.2	20.2	8.0	22.2	4.6	Alluvial						
2430	60	2230	88	449.8	2.4	447.4	20.2	429.6	17.8	21.0	Syenite	15.3	25.2	9.9	21.2	4.0	Eluvial+Alluvial						
2431	60	3689	98	450.1	5.9	444.2	22.0	428.1	16.1	25.3	Syenite	14.0	30.4	16.4	14.5	2.9	Eluvial+Alluvial						
2432	60	3688	94	450.3	4.8	445.5	23.0	427.3	18.2	31.0	Syenite	22.0	30.2	8.2	15.7	2.7	Eluvial+Alluvial						
2433	60	3687	94	450.4	5.1	445.3	24.0	426.4	18.9	30.8	Syenite	19.0	29.2	10.2	13.0	2.5	Eluvial						
2434	60	2079	118	449.7	5.1	444.6	13.0	436.7	7.9	22.0	Syenite	13.0	17.0	4.0	11.8	2.1	Eluvial						
2435	60	497	80	449.2	4.0	445.2	11.0	438.2	7.0	18.2	Syenite	11.0	18.0	7.0	17.4	2.5	Eluvial						
2436	60	228	116	447.5	3.3	444.2	8.8	438.7	5.5	22.0	Syenite	7.0	8.0	1.0	10.0	2.2	Alluvial						
2437	60	496	92	445.5	1.2	444.3	7.0	438.5	5.8	22.3	Syenite	3.5	22.3	18.8	16.4	1.1	Eluvial+Alluvial						
2438	60	2347	98	443.7	1.3	442.4	5.4	438.3	4.1	27.3	Syenite	3.9	27.0	23.1	23.5	4.2	Eluvial+Alluvial	3.9	6.2	2.3	58.7	13.0	Alluvial
2439	68	4471		479.9	9.0	470.9	19.6	460.3	10.6	20.1	Syenite	9.0	19.6	10.6	12.2	3.0	Alluvial						
2440	68	4470	54	478.8	9.2	469.6	13.9	464.9	4.7	16.0	Syenite	9.2	10.5	1.3	132.9	25.5	Alluvial	9.2	10.5	1.3	132.9	25.5	Alluvial
2441	68	4469	50	477.5	8.2	469.3	8.2	469.3		8.2	Syenite												
2442	70	4465		487.8	2.3	485.5	2.3	485.5		2.3	Granite												
2443	70	4466	77	486.2	5.2	481.0	5.2	481.0		5.2	Syenite												
2444	70	4461	50	484.9	6.5	478.4	8.2	476.7	1.7	8.2	Syenite												
2445	70	4468	50	483.3	7.0	476.3	11.4	471.9	4.4	11.4	Syenite												
2446	70	4448	46	482.3	9.4	472.9	19.2	463.1	9.8	19.2	Syenite	17.6	19.0	1.4	276.7	56.4	Alluvial	17.6	19.0	1.4	379.1	76.9	Alluvial
2447	70	4384	40	481.1	12.3	468.8	14.9	466.2	2.6	20.0	Syenite												
2448	70	4383	48	479.9	14.2	465.7	15.7	464.2	1.5	19.0	Syenite												
2449	70	4379	50	478.4	13.0	465.4	19.0	459.4	6.0	23.0	Syenite	17.0	19.0	2.0	6.0	7.3	Alluvial						
2450	72	4447		490.5	6.0	484.5	6.0	484.5		7.5	Syenite												
2451	72	4467	50	489.0	6.9	482.1	9.5	479.5	2.6	9.5	Syenite												
2452	72	4445	50	487.0	10.0	477.0	20.0	467.0	10.0	20.0	Syenite	12.0	20.0	8.0	33.5	7.1	Alluvial						
2453	72	4444	50	484.6	10.0	474.6	19.0	465.6	9.0	19.0	Syenite	15.0	16.0	1.0	154.7	25.5	Alluvial	15.0	16.0	1.0	154.7	25.5	Alluvial
2454	72	4443	47	482.9	9.8	473.1	35.5	447.4	25.7	35.5	Syenite	14.0	17.0	3.0	158.7	34.8	Alluvial	14.0	17.0	3.0	158.7	34.8	Alluvial
2455	72	4442	50	481.5	10.0	471.5	40.0	441.5	30.0	40.0	Syenite	10.0	15.0	5.0	63.0	12.0	Alluvial	11.9	15.0	3.1	85.5	16.3	Alluvial
2456	72	4441	57	480.6	10.0	470.6	40.0	440.6	30.0	40.0	Syenite	12.0	14.5	2.5	52.8	11.0	Alluvial	13.8	14.5	0.7	195.8	42.8	Alluvial
2457	72	4378	60	480.0	10.5	469.5	40.6	439.4	30.1	39.0	Syenite	10.5	12.0	1.5	11.0	1.6	Alluvial						
2458	72	4375	40	478.8	9.5	469.3	42.2	436.6	32.7	42.2	Syenite	11.0	12.8	1.8	137.2	29.8	Alluvial	11.0	12.8	1.8	137.4	29.8	Alluvial
2459	72	4370	40	477.9	8.6	469.3	41.6	436.3	33.0	13.7	Syenite	10.0	12.0	2.0	51.5	10.3	Alluvial	10.0	12.0	2.0	51.5	10.3	Alluvial
2460	72	4374	97	475.9	10.0	465.9	40.3	435.6	30.3	40.5	Syenite	36.0	40.3	4.3	22.4	4.6	Alluvial						
2461	72	4371	58	475.4	9.2	466.2	43.0	432.4	33.8	43.0	Syenite	32.0	40.5	8.5	17.7	2.9	Alluvial						
2462	72	2085		440.7	4.2	436.5	4.2	436.5		10.3	Monzonite	4.2	8.0	3.8	11.6	1.7	Eluvial						
2463	72	4027	200	438.2	4.5	433.7	4.5	433.7		13.5	Monzonite	4.5	13.2	8.7	13.8	2.3	Eluvial						
2464	72	4026	106	437.5	3.5	434.0	3.5	434.0		7.0	Monzonite	3.5	7.0	3.5	11.9	1.6	Eluvial						
2465	72	2244	90	437.4	6.0	431.4	6.0	431.4		18.0	Monzonite	6.0	18.0	12.0	16.3	2.9	Eluvial						
2466	74	4359		482.2	5.0	477.2	12.6	469.6	7.6	13.0	Syenite												
2467	74	4357	49	480.8	5.0	475.8	14.8	466.0	9.8	15.0	Syenite	9.4	15.0	5.6	75.2	18.5	Alluvial	13.2	14.5	1.3	236.5	61.4	Alluvial
2468	74	4363	63	479.4	4.9	474.5	16.7	462.7	11.8	16.7	Granite	10.0	11.8	1.8	183.9	36.2	Alluvial	10.0	11.8	1.8	183.9	36.2	Alluvial
2469	74	4362	122	476.1	6.4	469.7	26.0	450.1	19.6	26.0	Syenite	8.2	10.0	1.8	29.7	6.6	Alluvial						
2470	74	4365	40	475.1	6.0	469.1	39.5	435.6	33.5	39.8	Syenite	8.0	9.6	1.6	10.9	2.7	Alluvial						
2471	74	4367	60	474.1	5.0	469.1	35.5	438.6	30.5	36.2	Syenite	7.0	8.8	1.8	19.2	4.8	Alluvial						
2472	74	4372	46	473.1	5.5	467.6	32.0	441.1	26.5	35.5	Syenite	5.5	7.5	2.0	9.2	2.2	Alluvial						
2473	74	4373	54	472.1	4.2	467.9	30.5	441.6	26.3	32.0	Syenite						Alluvial						
2474	74	4376	64	471.1	5.4	465.7	27.9	443.2	22.5	29.2	Syenite	21.0	26.5	5.5	9.9	2.0	Alluvial						
2475	74	4377	42	471.1	4.0	467.1	29.8	441.3	25.8	31.2	Syenite	19.0	30.0	11.0	12.3	3.9	Alluvial						
2476	74	4564	100	469.4	4.6	464.8	5.1	464.3	0.5	7.0	Syenite	4.6	7.0	2.4	22.2	3.5	Eluvial						
2477	74	4565	52	469.4	2.4	467.0	3.1	466.3	0.7	5.4	Syenite	3.1	5.0	1.9	16.8	2.4	Eluvial						
2478	74	4566	50	469.1	3.5	465.6	3.5	465.6		5.0	Syenite						Eluvial						
2479	74	3881		441.8	7.0	434.8	8.5	433.3	1.5	14.0	Syenite	7.0	12.0	5.0	14.6	2.5	Eluvial+Alluvial						
2480	74	3880	90	440.0	6.0	434.0	6.0	434.0		8.3	Syenite	6.0	8.3	2.3	16.9	3.2	Eluvial						
2481	74	3775	86	437.1	4.6	432.5	4.6	432.5		7.6	Syenite	4.6	7.6	3.0	14.1	1.6	Eluvial						
2482	74	2446	112	439.1	4.9	434.2	17.0	422.1	12.1	18.6	Monzonite	8.7	18.5	9.8	19.0	3.7	Eluvial+Alluvial						
2483	74	3879	120	435.9	4.5	431.4	14.9	421.0	10.4	16.0	Monzonite	5.8	16.0	10.2	22.7	5.0	Eluvial+Alluvial						
2484	74	3774	86	435.5	2.0	433.5	11.1	424.4	9.1	11.8	Monzonite	2.0	11.8	9.8	21.1	3.9	Eluvial+Alluvial						
2485	76	4358		486.7	8.4	478.3	11.1	475.6	2.7	11.5	Syenite												
2486	76	4356	50	485.4	6.6	478.8	15.3	470.1	8.7	15.5	Syenite	14.0	15.3	1.3	15.1	2.9	Alluvial						
2487	76	4355	52	484.1	7.0	477.1	15.5	468.6	8.5	17.0	Granite	14.5	16.9	2.4	78.0	15.4	Alluvial	14.5	15.5	1.0	176.5	33.8	Alluvial
2488	76	4353	80	482.1	4.0	478.1	31.7	450.4	27.7	32.0	Granite	14.7	15.7	1.0	361.8	78.7	Alluvial						
2489	76	4360	130	478.7	6.2	472.5	35.4	443.3	29.2	36.0	Syenite	29.0	33.0	4.0	8.8	2.4	Alluvial						
2490	76	4354	56	477.8	4.3	473.5	31.0	446.8	26.7	34.0	Syenite	29.0	31.0	2.0	7.9	1.7	Alluvial						
2491	76	4361	54	477.2	3.5	473.7	30.8	446.4	27.3	31.5	Syenite	26.0	30.8	4.8	9.4	2.0	Alluvial						
2492	76	4364	54	476.5	7.2	469.3	28.0	448.5	20.8	28.5	Syenite	25.0	28.5	3.5	20.4	3.8	Alluvial						
2493	76	4366	56	476.4	7.0	469.4	17.8	458.6	10.8	34.0	Syenite	6.0	7.0	1.0	10.7	1.5	Alluvial						
2494	76	4368	62	475.4	6.0	469.4	11.0	464.4	5.0	19.7	Syenite	11.0	16.0	5.0	16.7	1.8	Eluvial						
2495	76	4369	44	475.0	7.9	467.1	10.5	464.5	2.6	13.5	Syenite	10.5	13.2	2.7	9.5	1.4	Eluvial						
2496	76	1265	134	472.6	6.0	466.6	6.0	466.6		6.1	Syenite												
2497	76	1259	206	470.8	8.0	462.8	8.0	462.8		21.0	Monzonite	8.2	21.0	12.8	32.2	2.9	Eluvial						
2498	76	1258	190	467.2	8.5	458.7	25.6	441.6	17.1	32.3	Monzonite	16.0	32.2	16.2	17.8	2.2	Eluvial+Alluvial						
2499	76	3862	186	464.1	8.2	455.9	28.7	435.4	20.5	40.0	Monzonite	25.5	40.0	14.5	21.9	2.0	Eluvial+Alluvial						
2500	76	1256	232	459.7	9.0	450.7	15.6	444.1	6.6	23.0	Monzonite	15.6	23.0	7.4	32.9	2.1	Eluvial						
2501	76	1255	200	456.2	9.8	446.4	9.8	446.4		20.5	Monzonite	9.8	20.5	10.7	47.2	2.0	Eluvial	9.8	15.0	5.2	52.6	2.4	Eluvial
2502	76	1254	194	453.4	11.0	442.4	11.0	442.4		18.0	Monzonite	11.0	18.0	7.0	22.0	1.3	Eluvial						
2503	76	1253	200	450.3	10.0	440.3	10.0	440.3		13.0	Monzonite	10.0	13.0	3.0	23.4	2.1	Eluvial						
2504	76	1252	196	446.3	7.0	439.3	7.0	439.3		11.0	Monzonite	7.0	11.0	4.0	25.4	1.5	Eluvial						
2505	76	1251	190	443.8	8.0	435.8	8.0	435.8		16.0	Monzonite	8.0	16.0	8.0	41.4	3.5	Eluvial	13.0	14.0	1.0	50.1	4.3	Eluvial
2506	76	1250	200	442.1	8.2	433.9	9.8	432.3	1.6	15.3	Monzonite	8.2	15.3	7.1	23.1	2.1	Eluvial+Alluvial						
2507	76	3982	96	440.5	6.9	433.6	19.0	421.5	12.1	23.0	Monzonite	11.0	22.8	11.8	18.5	2.1	Eluvial+Alluvial						
2508	76	2246	92	439.1	6.1	433.0	17.3	421.8	11.2	18.6	Monzonite	8.7	18.5	9.8	19.0	3.7	Eluvial+Alluvial						
2509	76	3983	108	439.1	6.5	432.6	12.6	426.5	6.1	15.2	Monzonite	11.5	14.0	2.5	19.5	3.5	Eluvial+Alluvial						
2510	76	540	102	437.8	7.0	430.8	7.0	430.8		7.4	Monzonite												
2511	78	4462		488.3	12.5	475.8	32.5	455.8	20.0	32.5	Syenite												
2512	78	4460	102	485.5	8.9	476.6	34.7	450.8	25.8	35.0	Granite	15.5	17.5	2.0	28.5	5.3	Alluvial						
2513	78	4446	50	484.5	10.2	474.3	47.3	437.2	37.1	47.5	Granite	10.2	13.3	3.1	17.9	2.6	Alluvial	16.7	17.8	1.1	260.8	49.6	Alluvial
2514	78	4177	70	484.0	12.0	472.0	28.8	455.2	16.8	29.2	Granite	16.0	18.0	2.0	79.1	18.1	Alluvial	16.0	17.2	1.2	135.0	31.9	Alluvial
2515	78	4385	29	484.1	12.0	472.1	17.0	467.1	5.0	17.5	Granite	15.0	17.0	2.0	79.5	13.7	Alluvial	15.0	16.8	1.8	79.5	13.7	Alluvial
2516	78	4382	171	483.0	12.3	470.7	16.5	466.5	4.2	19.0	Granite	14.0	16.5	2.5	13.5	2.8	Alluvial						
2517	78	4381	101	482.0	11.3	470.7	16.7	465.3	5.4	17.0	Syenite	15.0	17.0	2.0	12.1	3.0	Alluvial						
2518	78	4380	114	483.0	11.4	471.6	16.5	466.5	5.1	20.0	Granite	13.5	27.0	13.5	3.0	15.2	Alluvial						
2519	78	2247		453.4	8.5	444.9	8.5	444.9		16.5	Monzonite	8.5	16.4	7.9	29.9	1.3	Eluvial						
2520	78	3887	200	450.0	6.0	444.0	6.0	444.0		6.0	Monzonite	6.0	15.7	9.7	17.8	1.4	Eluvial						
2521	78	3886	100	448.7	6.6	442.1	6.6	442.1		12.5	Monzonite	6.6	12.0	5.4	23.7	2.1	Eluvial						
2522	78	2249	100	446.0	5.1	440.9	5.1	440.9		17.8	Monzonite	5.1	17.6	12.5	22.1	1.8	Eluvial						
2523	78	3885	100	445.7	6.5	439.2	12.3	433.4	5.8	12.5	Monzonite	9.6	12.3	2.7	18.5	2.9	Eluvial+Alluvial						
2524	78	2250	100	444.3	7.1	437.2	13.0	431.3	5.9	15.1	Monzonite	12.4	15.0	2.6	7.7	1.2	Eluvial+Alluvial						
2525	78	3884	104	442.8	6.5	436.3	17.6	425.2	11.1	19.5	Monzonite	13.0	19.0	6.0	22.3	3.6	Eluvial+Alluvial						
2526	78	2251	89	441.5	7.5	434.0	18.0	423.5	10.5	18.4	Monzonite	10.6	18.4	7.8	22.7	5.0	Eluvial+Alluvial						
2527	78	3883	140	440.2	7.7	432.5	16.1	424.1	8.4	16.2	Monzonite	9.3	16.1	6.8	23.6	4.2	Eluvial+Alluvial						
2528	78	3882	85	439.3	5.3	434.0	7.5	431.8	2.2	10.5	Monzonite	5.3	10.4	5.1	18.8	2.1	Eluvial+Alluvial						
2529	78	4014	99	438.4	7.0	431.4	7.0	431.4		14.0	Monzonite	7.0	14.0	7.0	34.5	1.9	Eluvial						
2530	80	4178		489.9	12.0	477.9	16.8	473.1	4.8	17.0	Hornfels												

Appendix 2-9 Mineralogical Analysis of The Karaotkel deposit

No.	LINE No.	DRILL HOLE No.	HOLE DISTANCE (m)	COLLAR ELEVATION (m)	QUATERNARY BASEMENT		TERTIARY BASEMENT			TOTAL DEPTH OF HOLE (m)	BED ROCK LITHOLOGY	HEAVY MINERAL CONCENTRATION						HEAVY MINERAL CONCENTRATION (OVER 50Kg/m³ ILMENITE)					
					QUATERNARY DEPTH (m)	QUATERNARY BASE ELEVATION (m)	TERTIARY DEPTH (m)	TERTIARY BASE ELEVATION (m)	Tertiary thickness (m)			HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE	HANGING-WALL DEPTH (m)	FOOT WALL DEPTH (m)	Ore Thickness (m)	ILMENITE (kg/m³)	ZIRCON (kg/m³)	DEPOSIT TYPE
2531	80	4386	166	486.7	14.0	472.7	20.7	466.0	6.7	21.5	Granite	18.9	21.4	2.5	14.9	3.3	Eluvial+Alluvial						
2532	80	4387	100	485.4	14.0	471.4	17.5	467.9	3.5	18.0	Granite	17.5	17.9	0.4	26.8	8.9	Eluvial						
2533	80	4388	116	484.1	15.4	468.7	20.5	463.6	5.1	21.0	Syenite												
2534	80	4140	128	483.1	14.5	468.6	16.8	466.3	2.3	19.0	Granite												
2535	80	4389	96	482.2	13.8	468.4	24.5	457.7	10.7	24.5	Granite	5.0	9.5	4.5	21.0	3.9	Alluvial	17.0	17.5	0.5	71.7	16.2	Alluvial
2536	80	4390	100	480.1	12.0	468.1	15.5	464.6	3.5	17.3	Syenite	13.6	15.6	2.0	20.4	4.4	Alluvial						
2537	80	4009	102	477.8	18.0	459.8	18.0	459.8		18.0	Syenite												
2538	80	4457	154	475.0	9.3	465.7	10.0	465.0	0.7	12.5	Syenite												
2539	80	4459	64	473.8	8.9	464.9	13.7	460.1	4.8	13.7	Syenite												
2540	80	4458	68	472.4	13.0	459.4	13.0	459.4		25.5	Syenite	13.0	25.5	12.5	13.5	1.3	Eluvial						
2541	80	4417	100	470.8	7.5	463.3	9.4	461.4	1.9	16.2	Syenite	8.2	14.0	5.8	29.6	5.4	Eluvial+Alluvial	8.2	9.2	1.0	87.2	22.1	Alluvial
2542	80	4427	80	469.2	6.0	463.2	6.0	463.2		12.6	Syenite	6.0	10.0	4.0	13.4	1.9	Eluvial						
2543	82	4449		489.3	15.0	474.3	15.0	474.3		15.0	Syenite												
2544	82	4418	99	487.7	14.6	473.1	20.7	467.0	6.1	21.0	Syenite												
2545	82	4141	99	486.5	15.0	471.5	21.4	465.1	6.4	23.2	Granite												
2546	82	4410	102	484.8	12.0	472.8	25.5	459.3	13.5	35.0	Syenite												
2547	82	4411	98	482.5	8.9	473.6	20.5	462.0	11.6	22.0	Granite												
2548	82	4391	99	479.6	10.6	469.0	19.1	460.5	8.5	19.3	Granite	18.4	19.2	0.8	23.8	5.2	Alluvial						
2549	82	4412	99	477.7	10.5	467.2	15.0	462.7	4.5	15.2	Syenite												
2550	82	4413	99	475.1	10.3	464.8	11.8	463.3	1.5	12.1	Syenite												
2551	82	4397	203	471.9	8.5	463.4	10.0	461.9	1.5	10.0	Syenite	8.5	10.0	1.5	29.4	8.4	Eluvial+Alluvial						
2552	82	4426	99	469.7	10.0	459.7	10.0	459.7		18.6	Syenite	5.7	7.2	1.5	31.0	6.5	Alluvial	6.6	7.4	0.8	73.3	14.8	Alluvial
2553	82	4428	98	467.2	7.3	459.9	7.3	459.9		8.0	Syenite	6.8	8.0	1.2	12.8	2.3	Eluvial						
2554	82	2252	201	462.8	2.8	460.0	2.8	460.0		11.5	Syenite	2.8	11.2	8.4	13.8	1.9	Eluvial						
2555	82	2253	393	455.8	4.0	451.8	8.1	447.7	4.1	9.1	Syenite	6.1	8.0	1.9	11.8	1.0	Eluvial						
2556	82	3892	106	453.9	5.0	448.9	11.5	442.4	6.5	26.0	Gabbro	11.5	24.1	12.6	16.7	1.9	Eluvial						
2557	82	2254	96	452.7	3.5	449.2	18.0	434.7	14.5	24.1	Gabbro	16.6	24.0	7.4	25.7	2.5	Eluvial+Alluvial						
2558	82	3891	104	450.7	6.9	443.8	13.0	437.7	6.1	19.5	Gabbro	7.7	19.3	11.6	21.3	2.4	Eluvial+Alluvial						
2559	82	2255	94	449.0	5.5	443.5	21.4	427.6	15.9	23.4	Syenite	11.4	23.3	11.9	20.0	2.9	Eluvial+Alluvial						
2560	82	3890	107	447.7	5.5	442.2	20.0	427.7	14.5	22.0	Syenite	9.8	21.9	12.1	19.6	4.1	Eluvial+Alluvial						
2561	82	2256	99	446.0	4.8	441.2	20.5	425.5	15.7	23.5	Syenite	11.4	23.3	11.9	23.3	4.6	Eluvial+Alluvial						
2562	82	3889	106	445.4	4.1	441.3	20.0	425.4	15.9	23.0	Monzonite	10.0	22.9	12.9	21.4	5.3	Eluvial+Alluvial						
2563	82	2257	90	444.4	4.6	439.8	10.7	433.7	6.1	17.5	Monzonite	12.0	17.5	5.5	25.7	2.0	Eluvial						
2564	82	3888	100	443.4	6.4	437.0	12.0	431.4	5.6	28.0	Gabbro	10.0	27.9	17.9	22.3	1.6	Eluvial+Alluvial						
2565	84	4143		489.1	12.5	476.6	12.5	476.6		12.5	Syenite												
2566	84	4409	98	487.0	13.5	473.5	13.8	473.2	0.3	24.0	Syenite	22.7	24.0	1.3	20.2	3.7	Eluvial+Alluvial						
2567	84	4408	98	484.0	11.5	472.5	22.2	461.8	10.7	23.0	Syenite	22.2	23.0	0.8	19.4	3.1	Eluvial						
2568	84	4392	100	481.8	10.0	471.8	17.8	464.0	7.8	18.0	Syenite	17.3	17.8	0.5	19.8	2.6	Alluvial						
2569	84	4407	100	479.0	8.3	470.7	16.7	462.3	8.4	21.5	Syenite												
2570	84	4406	96	476.9	6.8	470.1	13.1	463.8	6.3	13.1	Syenite	12.1	13.1	1.0	24.7	6.4	Alluvial						
2571	84	4398	204	474.9	7.7	467.2	10.9	464.0	3.2	13.0	Syenite	9.8	10.9	1.1	47.1	11.9	Alluvial						
2572	84	4425	102	471.6	6.9	464.7	8.4	463.2	1.5	11.5	Syenite	6.9	11.5	4.6	19.3	4.8	Eluvial+Alluvial						
2573	84	4429	102	468.8	6.9	461.9	6.9	461.9		7.5	Syenite	5.0	6.0	1.0	14.5	2.7	Alluvial						
2574	86	4452		497.2	10.0	487.2	10.0	487.2		10.0	Syenite												
2575	86	4450	100	494.8	19.1	475.7	21.0	473.8	1.9	21.0	Syenite												
2576	86	4420	100	498.0	16.5	481.5	27.0	471.0	10.5	27.0	Syenite	17.3	19.2	1.9	31.1	8.2	Alluvial						
2577	86	4396	100	489.2	16.5	472.7	24.2	465.0	7.7	25.0	Syenite	22.3	25.0	2.7	38.3	9.1	Alluvial	24.4	25.0	0.6	100.3	2.4	Alluvial
2578	86	4421	102	486.3	15.5	470.8	25.5	460.8	10.0	26.0	Syenite	21.0	22.0	1.0	47.9	11.9	Alluvial						
2579	86	4393	98	483.7	13.5	470.2	27.7	456.0	14.2	27.7	Syenite	15.0	20.2	5.2	11.2	3.8	Alluvial						
2580	86	4404	294	475.9	8.0	467.9	11.5	464.4	3.5	11.8	Syenite	11.6	11.8	0.2	12.3	2.3	Alluvial						
2581	86	4399	128	474.6	6.7	467.9	9.8	464.8	3.1	10.0	Syenite												
2582	86	4424	92	472.3	7.0	465.3	7.0	465.3		20.2	Granite												
2583	86	2258	298	465.2	3.2	462.0	3.2	462.0		3.8	Syenite												
2584	86	4080	196	467.0	5.0	462.0	5.0	462.0		6.3	Syenite												
2585	86	2259	204	457.8	6.4	451.4	6.4	451.4		7.0	Syenite												
2586	86	4081	92	456.3	3.0	453.3	3.0	453.3		8.2	Syenite	3.0	8.1	5.1	11.4	1.5	Eluvial						
2587	86	2260	100	454.8	3.7	451.1	5.3	449.5	1.6	11.1	Syenite	5.4	11.0	5.6	23.8	2.4	Eluvial						
2588	86	4082	102	452.9	3.0	449.9	22.4	430.5	19.4	22.5	Syenite	18.8	22.4	3.6	17.5	3.9	Eluvial+Alluvial						
2589	86	2261	100	452.0	1.4	450.6	23.5	428.5	22.1	27.2	Gabbro	17.0	27.2	10.2	23.3	3.5	Eluvial+Alluvial						
2590	86	4083	98	451.2	2.7	448.5	15.4	435.8	12.7	18.5	Syenite	16.5	18.3	1.8	1.9	0.8	Eluvial+Alluvial						
2591	86	2262	99	449.9	2.0	447.9	29.6	420.3	27.6	26.0	Gabbro	16.0	26.0	10.0	24.5	2.8	Eluvial+Alluvial						
2592	86	4075	100	448.8	2.8	446.0	5.1	443.7	2.3	8.0	Gabbro	2.8	7.8	5.0	25.1	1.4	Eluvial+Alluvial	5.0	6.4	1.4	52.9	1.2	Eluvial
2593	86	2262A	100	447.7	2.2	445.5	7.5	440.2	5.3	7.9	Syenite												
2594	88	4453		497.0	18.5	478.5	32.5	464.5	14.0	32.5	Syenite												
2595	88	4451	100	494.4	16.6	477.8	30.5	463.9	13.9	30.5	Syenite												
2596	88	4419	100	490.9	10.0	480.9	24.5	466.4	14.5	24.5	Syenite	16.0	17.0	1.0	43.7	10.0	Alluvial						
2597	88	4395	100	487.7	12.9	474.8	16.2	471.5	3.3	16.6	Syenite	12.9	14.2	1.3	30.5	7.8	Alluvial						
2598	88	4394	100	484.8	15.6	469.2	19.9	464.9	4.3	21.5	Syenite	18.9	21.5	2.6	18.0	2.6	Alluvial						
2599	88	4415	200	478.8	11.0	467.8	14.8	464.0	3.8	15.0	Syenite												
2600	88	4414	97	476.0	9.5	466.5	11.8	464.2	2.3	12.0	Syenite												
2601	88	4400	127	475.2	9.6	465.6	11.8	463.4	2.2	12.0	Syenite												
2602	90	4456		497.9	7.0	490.9	7.0	490.9		7.0	Syenite												
2603	90	4455	103	494.0	9.5	484.5	9.5	484.5		9.5	Syenite												
2604	90	4454	118	490.8	8.0	482.8	8.0	482.8		8.0	Hornfels												
2605	90	2263A		466.2	8.2	458.0	10.7	455.5	2.5	16.0	Syenite												
2606	90	4079	96	464.0	8.5	455.5	10.4	453.6	1.9	13.2	Syenite												
2607	90	2263	102	462.3	8.0	454.3	26.2	436.1	18.2	29.1	Syenite	25.0	28.0	3.0	10.1	3.5	Alluvial+Eluvial						
2608	90	4078	102	461.1	7.0	454.1	23.7	437.4	16.7	24.5	Syenite	22.7	23.7	1.0	16.1	4.3	Alluvial						
2609	90	2264	99	458.0	8.0	450.0	22.0	436.0	14.0	27.5	Syenite	22.0	27.4	5.4	10.1	3.1	Eluvial						
2610	90	4076	99	459.3	6.5	452.8	15.0	444.3	8.5	17.0	Syenite	11.0	15.0	4.0	8.0	2.2	Eluvial+Alluvial						
2611	90	2265	102	458.0	3.0	455.0	3.0	455.0		6.1	Syenite												
2612	90	4077	100	456.0	6.0	450.0	6.0	450.0		7.5	Syenite												
2613	90	2266	90	455.3	3.0	452.3	3.0	452.3		3.2	Syenite												
2614	90	2267	210	454.3	1.5	452.8	1.5	452.8		1.8	Syenite												
2615	92	4423		485.9	10.5	475.4	10.5	475.4		11.0	Syenite												
2616	92	4422	103	482.0	12.0	470.0	12.0	470.0		12.4	Syenite												
2617	92	4403	104	478.6	11.5	467.1	11.5	467.1		14.0	Syenite	11.5	14.0	2.5	12.9	2.9	Eluvial						