Area: Labuk Area   Grid: LMj

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
977	LMj01	Sungai Sungai	S. Wanyang	—	N_4By	1	2.0	3	3	L.B.
978	LMj02	Sungai Sungai	S. Wanyang	—	N_4By	1	3.0	3	3	L.B.
979	LMj03	Sungai Sungai	S. Wanyang	—	N_4By	1	1.5	2	3	L.B.
980	LMj04	Sungai Sungai	S. Wanyang	—	Q_2	2	2.0	2	3	Y.B.
981	LMj05	Sungai Sungai	—	—	Q_2	1	1.5	3	3	Y.B.
982	LMj06	Sungai Sungai	S. Wanyang	—	Q_2	1	5.0	2	4	B.
983	LMj07	Sungai Sungai	S. Wanyang	—	Q_2	1	4.0	3	4	B.
984	LMj08	Sungai Sungai	S. Wanyang	—	Q_2	2	8.0	3	3	G.
985	LMj09	Sungai Sungai	S. Wanyang	—	Q_2	1	4.0	2	4	D.B.
986	LMj10	Sungai Sungai	S. Wanyang	—	Q_2	1	2.0	2	4	L.G.B.

Area: Labuk Area   Grid: LMm

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
987	LMm01	Terusan Sapi	S. Pandan P.	sandstone	Q_2	3	12.0	1	3	L.G.

Area: Labuk Area   Grid: LMn

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
988	LMn01	Terusan Sapi	S. Mandaring	—	Q_2	2	12.0	2	3	G.
989	LMn02	Terusan Sapi	S. Mandaring	—	P_4Gr	1	4.0	3	3	G.
990	LMn03	Terusan Sapi	S. Mandaring	—	P_4Gr	1	8.0	2	3	L.G.
991	LMn04	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	2	2.0	3	3	B.G.
992	LMn05	Terusan Sapi	—	sandstone	P_4Gr	1	1.5	2	3	B.G.
993	LMn06	Terusan Sapi	—	—	P_4Gr	2	3.0	2	3	L.G.
994	LMn07	Terusan Sapi	—	sandstone	P_4Gr	2	1.5	2	3	L.G.
995	LMn08	Terusan Sapi	—	sandstone	P_4Gr	1	3.0	2	3	B.
996	LMn09	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	1	1.0	2	3	B.G.
997	LMn10	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	1	1.5	2	3	B.G.
998	LMn11	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	1	1.5	2	3	B.G.
999	LMn12	Terusan Sapi	S. Pandan P.	—	P_4Gr	2	3.0	3	3	G.
1000	LMn13	Terusan Sapi	S. Mandaring	—	Q_2	2	15.0	2	3	L.G.
1001	LMn14	Terusan Sapi	S. Mandaring	—	P_4Gr	1	2.0	2	2	B.G.
1002	LMn15	Terusan Sapi	—	sandstone	P_4Gr	1	1.5	2	3	L.G.
1003	LMn16	Terusan Sapi	—	sandstone	P_4Gr	1	1.5	2	3	L.G.
1004	LMn17	Terusan Sapi	—	sandstone	P_4Gr	1	3.0	2	3	B.G.
1005	LMn18	Terusan Sapi	—	—	P_4Gr	1	1.5	2	3	L.G.

Area: Labuk Area   Grid: LNn

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
1006	LNn01	Terusan Sapi	—	—	P_4Gr	1	1.0	2	2	L.G.
1007	LNn02	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	2	3.0	2	3	B.G.
1008	LNn03	Terusan Sapi	S. Pandan P.	sandstone	P_4Gr	1	1.0	2	1	B.G.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)
*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Appendix 21

Analytical results of stream sediment geochemical samples in the Kinabalu/Labuk area

List of Geochemical Analysis(1)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1	KFh01	12	3	144	11	266	42	141	.60	.72	119	1>	.38	82	5	.041	6.8	40	.18	1.8	4	29
2	KFh02	8	32	113	9	274	154	391	.58	1.05	88	6	.15	100	6	.083	3.5	25	.19	1.2	4	43
3	KFh03	15	1>	72	4	117	12	38	.35	.17	8	1>	.04	16	4	.019	3.0	15	.18	1.6	5	17
4	KFh04	8	1>	55	2	138	7	25	.23	.10	5>	1>	.02	14	2	.018	.2>	12	.13	.8	3	13
5	KFh05	3	1>	61	4	131	6	25	.24	.12	5>	1>	.04	15	5	.022	1.1	14	.14	1.0	5	15
6	KFh06	5	1>	82	3	176	7	26	.34	.13	5>	1>	.04	15	2>	.019	2.0	17	.16	1.2	3	15
7	KFh07	18	15	120	11	353	117	587	.59	1.08	124	5	.16	102	17	.078	5.2	27	.18	1.0	5	40
8	KFh08	5	1>	154	2	180	8	36	.50	.19	5>	1>	.16	15	4	.021	4.0	28	.18	1.4	2>	19
9	KFh09	14	1>	126	3	227	7	40	.42	.14	5>	1>	.18	22	5	.020	1.6	25	.16	1.2	2>	20
10	KFh10	7	1>	147	3	220	6	27	.47	.16	27	1>	.13	18	2	.020	.2>	25	.16	1.2	2>	17
11	KFh11	17	1>	105	4	226	6	21	.32	.13	5>	1>	.13	16	6	.019	2.8	21	.13	.6	2	16
12	KFh12	1>	1>	118	3	181	6	19	.41	.12	5>	1>	.12	13	3	.019	.2>	22	.14	1.2	4	15
13	KFj01	12	1>	64	3	239	7	21	.31	.13	21	1>	.02	12	4	.021	1.7	14	.16	1.4	2>	15
14	KFj02	15	1>	76	1>	213	9	24	.40	.17	35	1	.05	16	2>	.018	.2	16	.17	1.4	3	20
15	KFj03	5	1>	82	6	164	10	21	.51	.19	15	1>	.04	15	7	.019	1.6	17	.19	1.4	2>	20
16	KFj04	1	1>	76	3	176	8	18	.34	.14	81	1>	.04	16	5	.019	.2>	14	.16	1.2	4	17
17	KFj05	1>	1>	49	1>	215	5	15	.16	.05	7	1>	.01>	10	2	.018	.4	8	.14	.6	2	8
18	KGg01	4	1>	83	3	235	8	18	.32	.17	68	1>	.05	15	6	.019	1.4	16	.16	.8	4	18
19	KGg02	9	1>	99	5	227	9	24	.44	.22	59	1>	.07	18	5	.018	2.5	20	.19	1.4	4	23
20	KGg03	6	1>	101	6	223	10	25	.44	.23	57	1>	.07	18	11	.019	2.9	20	.20	1.4	5	24
21	KGg04	15	1>	90	5	146	8	17	.36	.19	60	1>	.06	13	4	.019	.5	18	.18	1.2	2	21
22	KGg05	5	1>	182	2	185	7	19	.63	.13	5>	1>	.09	15	4	.020	2.1	27	.17	.8	4	17
23	KGg06	1	1>	95	2	184	8	23	.31	.10	9	1>	.03	12	6	.020	.2>	18	.16	1.2	3	14
24	KGg07	18	1>	66	1>	174	7	19	.25	.09	5>	1>	.01	14	5	.020	.2>	13	.16	1.6	2	13
25	KGg08	10	1>	90	4	139	7	23	.29	.10	120	1>	.02	12	3	.021	1.2	18	.16	.8	2>	15
26	KGg09	7	1>	80	2	215	6	21	.23	.07	5>	1>	.02	14	9	.019	.2>	15	.12	1.0	4	11
27	KGg10	7	1>	151	1	242	6	17	.46	.07	41	1>	.04	11	2	.019	.8	22	.15	1.2	2>	12
28	KGg11	8	1>	73	3	275	7	21	.27	.11	13	1	.03	14	11	.024	2.0	16	.15	1.4	6	13
29	KGg12	17	1>	95	3	214	6	26	.34	.11	5>	1>	.04	13	3	.020	.2>	21	.16	1.0	7	14
30	KGg13	7	1>	59	1>	174	6	18	.21	.08	5>	1>	.01	14	2>	.019	.2>	13	.12	1.0	2>	11
31	KGg14	19	1>	82	3	131	7	18	.31	.12	30	1>	.04	12	5	.021	1.2	17	.19	1.8	2>	14
32	KGg15	10	1>	76	3	121	7	19	.30	.10	23	1>	.02	15	2	.020	.2	14	.14	1.2	4	12
33	KGg16	8	1>	59	2	206	7	19	.20	.09	61	1>	.03	12	8	.021	1.4	13	.12	1.0	3	12
34	KGg17	20	1>	85	2	208	9	20	.41	.23	65	1>	.04	15	2>	.021	2.3	17	.19	1.2	2>	21
35	KGg18	5	1>	73	3	140	6	25	.29	.09	5>	1>	.02	12	7	.020	.2>	15	.12	1.0	3	12
36	KGg19	12	1>	48	2	233	6	20	.17	.07	5>	1>	.01	13	7	.019	2.8	11	.12	1.0	4	11
37	KGg20	3	1>	58	1>	191	6	23	.21	.09	18	1>	.01	13	2>	.020	1.8	13	.11	1.0	2>	12
38	KGg21	14	1>	101	2	173	8	24	.39	.17	70	1>	.10	19	7	.020	2.2	19	.15	1.2	3	18
39	KGg22	9	1>	62	2	222	20	19	.22	.10	8	1	.01	14	5	.019	.6	13	.12	1.0	5	16
40	KGg23	17	1>	199	1>	181	6	31	.65	.12	5>	1	.09	14	5	.021	.2>	28	.17	1.2	5	16
41	KGg24	15	1>	63	1	143	6	27	.23	.10	8	1>	.02	13	2>	.020	2.0	14	.14	1.0	2	13
42	KGg25	6	1>	121	2	207	6	26	.36	.09	5>	1>	.10	14	3	.021	2.7	23	.14	.6	2>	13
43	KGg26	11	1>	114	3	194	9	19	.49	.19	5>	1>	.08	16	5	.022	.2>	22	.19	1.2	2	21
44	KGg27	14	1>	111	4	153	7	19	.40	.14	50	1>	.06	13	6	.021	2.9	20	.14	.8	3	17
45	KGg28	13	1>	73	3	233	7	18	.27	.11	17	1>	.03	12	2>	.023	2.2	15	.16	1.2	3	14
46	KGg29	6	1>	79	1>	169	7	19	.30	.12	5>	1>	.02	12	4	.020	2.3	16	.15	.8	3	15
47	KGg30	14	1>	106	4	212	7	17	.36	.12	5>	1>	.09	16	6	.021	.2>	22	.15	1.2	2>	15
48	KGg31	11	1>	87	3	145	8	18	.35	.14	5>	1>	.03	13	5	.020	3.1	18	.18	1.2	4	16
49	KGg32	27	1>	73	13	1391	11	17	.30	.11	35	1>	.02	499	9	.024	3.1	16	.18	1.4	2>	16
50	KGg33	8	1>	62	4	205	7	16	.22	.09	5>	1>	.02	11	25	.023	.3	15	.16	1.4	2	12

List of Geochemical Analysis(2)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
51	KGg34	13	1>	87	1>	120	7	16	.34	.13	5>	1>	.03	18	6	.019	1.3	17	.16	1.0	3	17
52	KGg35	15	1>	93	2	114	8	14	.37	.14	5>	1>	.03	32	6	.019	.3	18	.17	1.0	3	18
53	KGg36	14	1>	109	2	115	7	16	.40	.13	5>	1>	.04	22	4	.019	1.7	20	.16	1.2	3	16
54	KGg37	13	1>	50	1>	270	7	13	.18	.06	5>	1>	.01	23	11	.020	2.7	12	.15	1.2	2>	11
55	KGg38	20	1>	48	3	125	7	11	.17	.07	5	1>	.01	20	8	.018	3.2	12	.13	.8	4	12
56	KGg39	14	1>	80	1>	184	7	15	.30	.13	10	1>	.04	16	2>	.017	.2>	17	.15	1.2	2>	17
57	KGg40	6	1>	111	1	133	7	16	.37	.13	53	1>	.07	19	6	.019	.6	21	.16	1.0	2>	15
58	KGg41	9	1>	105	3	112	6	10>	.31	.08	63	1	.05	18	5	.018	2.4	18	.13	1.2	2>	12
59	KGg42	10	1>	101	2	119	7	10>	.32	.12	25	1>	.06	18	5	.018	.2>	20	.15	1.4	2>	14
60	KGg43	9	1>	156	3	171	7	10	.50	.14	56	1>	.11	18	6	.020	1.4	27	.16	1.0	2>	17
61	KGg44	13	1>	127	3	133	8	10>	.44	.21	50	1>	.17	16	5	.023	2.3	27	.14	1.2	2>	19
62	KGg45	13	1>	63	2	132	5	10>	.14	.07	222	1>	.01	12	5	.019	1.6	15	.10	1.4	2>	11
63	KGg46	7	3	126	4	140	8	10>	.42	.19	14	1>	.16	19	6	.024	2.2	26	.14	1.0	2>	18
64	KGg47	6	1>	164	2	89	5	16	.47	.09	25	1>	.04	10	5	.018	.8	24	.17	1.2	2>	13
65	KGg48	9	1>	155	1	88	6	10>	.46	.12	5>	1>	.09	14	6	.020	.2>	26	.15	1.0	2>	14
66	KGh01	5	1>	53	3	99	6	10>	.19	.09	26	1>	.03	13	3	.018	.9	12	.13	.8	2>	11
67	KGh02	9	1>	136	3	98	5	10>	.45	.08	5>	1>	.05	14	5	.018	3.0	21	.15	1.6	2>	11
68	KGh03	6	1>	40	2	91	5	10>	.14	.05	5>	1>	.01>	13	7	.017	.2>	11	.11	1.2	2>	7
69	KGh04	16	1>	116	2	145	7	10>	.40	.12	5>	2	.04	15	8	.019	1.3	21	.16	1.2	2>	15
70	KGh05	6	1>	96	1>	164	6	10>	.31	.08	5>	1>	.03	20	3	.020	.2>	17	.14	1.0	2>	10
71	KGh06	9	1>	167	2	95	6	10	.54	.10	5>	1>	.05	11	3	.018	1.4	24	.18	1.0	2>	13
72	KGh07	14	1>	169	3	70	6	10>	.55	.11	5>	1	.07	10	6	.018	.3	24	.18	1.6	2>	13
73	KGh08	3	1>	73	1	78	5	10>	.20	.05	5>	1>	.02	9	6	.017	.2>	13	.13	.8	2>	8
74	KGh09	10	1>	190	1	80	5	10>	.56	.08	5>	1>	.07	17	3	.020	.6	24	.19	1.2	2>	11
75	KGh10	10	3	59	4	99	8	14	.23	.12	78	1>	.03	24	3	.017	.2>	12	.16	.8	2>	13
76	KGh11	6	1	54	2	90	7	10>	.21	.11	5>	1	.02	15	5	.019	2.6	15	.14	1.0	2>	9
77	KGh12	12	1>	74	8	228	7	11	.20	.20	62	1>	.10	59	5	.019	2.7	19	.11	.8	2>	12
78	KGh13	18	1>	65	4	98	7	10	.24	.12	27	1>	.03	13	4	.019	1.6	14	.12	.8	2>	14
79	KGh14	8	1>	83	3	79	11	10	.50	.24	5>	1>	.06	17	6	.018	1.2	19	.21	1.2	2>	26
80	KGh15	12	1>	61	2	97	6	10	.21	.10	36	1>	.03	15	3	.018	1.4	13	.13	1.2	2>	12
81	KGh16	6	1>	71	2	67	6	13	.24	.12	34	1>	.06	11	5	.018	.2>	15	.15	1.4	2>	14
82	KGh17	5	1>	69	4	101	9	18	.28	.12	65	1>	.04	13	5	.021	.8	15	.13	.8	2>	15
83	KGh18	6	1>	66	2	127	8	56	.25	.12	30	1>	.03	15	4	.017	1.8	14	.13	1.0	2>	15
84	KGh19	18	1>	97	3	107	8	16	.37	.14	5>	1>	.05	14	5	.019	1.4	19	.18	1.2	2>	16
85	KGh20	5	1>	70	4	227	8	10	.26	.12	36	1>	.03	16	2>	.019	.2>	14	.15	1.2	2>	15
86	KGh21	7	1>	42	1>	110	6	10>	.17	.06	5>	1>	.01>	11	2>	.019	3.3	12	.13	1.2	2>	10
87	KGh22	3	9	111	6	195	107	284	.46	.75	71	2	.14	75	5	.088	3.3	25	.17	1.2	2>	35
88	KGh23	16	16	104	9	162	136	277	.52	.80	102	3	.12	84	8	.082	4.4	24	.20	1.2	2	37
89	KGh24	10	1>	78	4	93	11	17	.40	.22	6	1>	.06	14	8	.018	4.4	19	.21	1.2	2>	20
90	KGh25	17	1>	83	4	123	9	19	.33	.18	5>	2	.03	16	5	.019	.2	16	.16	1.6	2>	19
91	KGh26	13	1>	66	1	133	9	10	.26	.14	7	1>	.02	17	9	.018	.7	15	.15	1.2	2>	16
92	KGh27	18	1>	61	4	127	7	10>	.20	.10	5>	1>	.02	12	5	.021	1.7	12	.14	.6	2>	12
93	KGh28	11	1>	65	2	127	7	10>	.22	.12	44	1>	.03	13	2>	.019	.3	15	.17	1.2	2>	15
94	KGh29	20	1>	41	1>	98	5	10>	.11	.04	15	1>	.01>	12	5	.018	.5	9	.09	.8	2>	8
95	KGh30	10	1>	59	3	105	7	10>	.20	.09	9	1>	.01	12	6	.018	.6	12	.17	1.4	2>	11
96	KGh31	8	1>	49	1	100	5	10>	.12	.04	12	1>	.01	8	8	.019	1.0	10	.11	.6	2>	8
97	KGh32	15	1>	64	4	123	6	10>	.22	.11	34	1>	.04	12	2>	.018	4.1	14	.17	1.4	2>	14
98	KGh33	9	1>	53	2	117	6	10>	.16	.06	9	1>	.01	11	4	.019	1.4	12	.12	1.0	2>	9
99	KGh34	18	1>	56	1	155	6	10>	.18	.07	20	1>	.01	18	2>	.018	.3	12	.11	.8	2>	10
100	KGh35	8	1>	51	1>	142	5	10>	.15	.06	5	1>	.01	13	6	.019	.8	11	.11	.8	2>	9

List of Geochemical Analysis(3)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
101	KGh36	9	1>	87	4	167	6	10>	.32	.09	5>	1>	.03	8	3	.018	1.6	17	.16	1.6	2>	11
102	KGh37	12	1>	78	3	112	7	10>	.28	.08	5>	1>	.03	11	9	.016	1.9	16	.16	1.2	2>	10
103	KGh38	1>	1>	60	3	118	6	10>	.22	.08	5>	1>	.01	9	2>	.018	1.0	15	.14	.8	2>	10
104	KGh39	5	1>	74	6	108	9	10>	.35	.20	42	1>	.10	13	6	.019	.2>	18	.16	1.0	2>	17
105	KGh40	4	1>	101	2	103	7	10>	.42	.15	5>	1>	.05	12	5	.019	.2>	19	.18	1.2	2>	15
106	KGh41	12	1>	93	4	100	8	10>	.39	.14	5>	1>	.04	22	2>	.021	1.3	18	.17	1.4	2>	15
107	KGh42	5	1>	85	2	139	6	10>	.29	.10	5>	1	.06	10	2>	.022	.5	17	.14	1.0	2>	14
108	KGh43	9	1>	81	4	116	7	10>	.30	.14	5>	1>	.06	9	2>	.019	1.0	18	.18	1.2	2>	15
109	KGh44	15	1>	51	1>	112	5	10>	.15	.05	10	1>	.01>	11	2>	.017	1.7	11	.14	1.0	2>	8
110	KGh45	15	1>	67	3	129	5	10>	.24	.06	5>	1>	.01	9	4	.020	1.0	12	.16	1.2	2>	9
111	KGh46	12	1>	83	3	113	6	10>	.29	.07	5>	1	.02	14	12	.020	.2>	12	.18	1.2	2>	10
112	KGh47	13	1>	72	3	109	6	10>	.29	.09	5>	1>	.01	10	7	.017	.7	15	.15	1.4	2>	13
113	KGh48	12	1>	116	3	92	6	10>	.46	.12	5>	1	.05	8	3	.020	.6	18	.19	1.0	2>	12
114	KGh49	12	1>	64	1>	95	7	10>	.29	.12	19	1>	.02	9	4	.017	.8	14	.13	1.0	2>	14
115	KGh50	6	1>	62	3	93	7	10>	.28	.12	5>	1>	.02	10	2>	.017	.6	15	.16	1.2	2>	14
116	KGj01	12	1>	51	1>	91	7	10>	.16	.06	5>	1>	.01	8	2>	.018	.2>	12	.12	1.2	2>	9
117	KGj02	16	1>	50	1	103	6	10>	.16	.06	5>	1>	.01	11	6	.018	2.2	12	.12	1.4	2>	10
118	KGj03	13	1>	55	1>	88	6	10>	.20	.08	5>	1>	.01	8	2	.018	1.5	11	.17	1.4	2>	11
119	KGj04	17	1>	65	3	108	7	10>	.25	.12	35	1>	.04	12	6	.018	.2>	14	.16	.8	2>	14
120	KGj05	18	1>	55	3	106	6	10>	.20	.09	5>	1>	.02	8	4	.018	3.3	12	.12	.8	2>	11
121	KGj06	11	1>	57	3	105	8	10>	.27	.12	5>	1>	.02	9	3	.019	1.4	14	.17	1.8	2>	14
122	KGj07	15	1>	47	1>	94	5	10>	.12	.04	5>	1>	.01	7	2>	.019	1.6	11	.12	.8	2>	7
123	KGj08	19	1>	50	1>	91	5	10>	.16	.06	10	1>	.01	8	3	.019	1.4	11	.12	.4	2>	9
124	KGj09	20	1>	65	1	97	6	10>	.27	.11	5>	1>	.04	8	3	.018	1.4	15	.15	.8	2>	13
125	KGj10	12	1>	43	1	88	5	10>	.21	.07	5>	1	.01	8	2>	.018	1.3	12	.15	1.0	2>	8
126	KGj11	12	1>	47	1>	103	6	10>	.17	.06	11	1>	.01>	25	7	.020	.2>	10	.11	.8	2>	9
127	KGj12	11	1>	61	4	101	6	10>	.24	.10	23	1>	.02	8	8	.017	.8	14	.17	1.2	2>	14
128	KGj13	14	1>	68	3	103	7	10>	.25	.12	28	1>	.03	9	6	.019	4.5	15	.13	1.0	2>	13
129	KGj14	10	1>	51	1	102	6	10>	.20	.09	9	1>	.01	7	2>	.017	1.5	12	.13	1.2	2>	11
130	KGj15	5	1>	75	4	91	7	10>	.33	.13	20	1>	.04	11	6	.017	.2>	15	.17	1.0	2>	15
131	KGj16	18	1>	91	4	129	8	10>	.38	.17	5>	1>	.09	23	2>	.019	3.8	19	.16	1.2	2>	18
132	KGj17	16	1>	79	2	95	7	10>	.32	.13	33	1>	.05	9	2>	.017	3.4	15	.14	.8	2>	15
133	KGj18	17	1>	62	2	129	7	10>	.24	.10	63	1>	.01	22	2	.020	.2>	12	.13	.8	2>	15
134	KGj19	4	1>	58	4	89	6	10>	.21	.09	52	1>	.02	8	3	.017	.8	13	.14	1.2	2>	11
135	KGj20	18	1>	53	1	112	6	10>	.20	.08	18	1	.01	15	2>	.018	1.1	13	.13	1.0	2>	11
136	KGj21	20	1>	68	4	91	7	10>	.28	.12	63	1>	.02	12	6	.017	1.9	13	.16	1.2	2>	15
137	KGj22	1>	1>	39	3	101	6	10>	.15	.05	12	1>	.01>	8	5	.016	1.6	9	.12	1.0	2>	6
138	KGj23	10	1>	40	1	156	6	10>	.15	.05	11	1>	.01	18	2>	.018	.8	9	.12	1.0	2>	8
139	KGj24	11	1>	72	1	208	8	10>	.34	.15	8	1>	.04	37	11	.018	1.6	16	.19	1.4	2>	20
140	KGj25	26	1>	71	3	93	8	10>	.35	.14	6	1>	.04	14	4	.019	2.6	16	.19	1.6	2>	16
141	KGj26	13	1>	71	4	72	8	10>	.35	.15	6	1>	.04	10	5	.018	1.3	16	.19	1.8	2>	16
142	KGj27	11	1>	65	5	89	7	10>	.29	.12	22	1	.03	10	2>	.019	1.8	14	.15	1.0	2>	17
143	KGj28	12	1>	68	4	85	7	10>	.32	.14	6	1>	.04	11	8	.019	.2>	16	.19	1.2	2>	16
144	KGj29	21	1>	65	4	85	7	10>	.32	.13	5>	1>	.04	10	2>	.019	1.4	15	.19	1.6	2>	15
145	KGj30	14	1>	66	1	90	7	10>	.30	.12	28	1>	.03	11	5	.018	.6	14	.16	1.0	2>	15
146	KGj31	13	1>	63	2	83	6	10>	.22	.09	58	1>	.02	8	3	.018	1.3	13	.13	1.0	2>	12
147	KGj32	11	1>	50	4	80	5	10>	.19	.08	5>	1>	.02	10	5	.018	1.9	12	.12	.8	2>	12
148	KGj33	10	1>	61	1	92	6	10>	.25	.11	11	1>	.02	9	2>	.018	1.6	13	.13	1.0	2>	13
149	KGj34	15	1>	62	1	88	7	10>	.30	.12	11	1>	.02	10	2>	.018	1.4	14	.15	1.0	2>	13
150	KGj35	8	1>	38	3	102	4	10>	.10	.04	5>	1>	.01	7	2>	.018	1.4	10	.11	.8	2>	10

List of Geochemical Analysis(4)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
151	KGj36	1>	1>	63	3	114	7	12	.33	.12	15	1>	.02	14	5	.019	5.1	15	.16	.8	2	14
152	KGj37	2	1	59	3	109	8	15	.31	.11	11	1>	.02	21	3	.018	.8	14	.16	1.0	2>	14
153	KGj38	9	1>	59	3	104	48	14	.29	.11	18	1	.02	72	9	.023	2.9	15	.18	1.4	2	15
154	KGj39	1>	1>	57	5	92	5	12	.20	.07	37	1>	.03	14	5	.018	3.5	14	.15	1.2	2>	11
155	KGj40	1>	1>	74	5	91	8	12	.37	.15	60	1>	.03	16	5	.018	3.8	15	.16	1.2	2>	17
156	KGj41	9	1>	68	5	87	7	13	.35	.12	5>	1>	.04	17	7	.018	2.5	15	.17	1.8	4	15
157	KGj42	4	1>	74	4	88	7	16	.36	.13	49	1	.02	16	5	.020	3.2	14	.14	1.0	3	17
158	KGj43	1>	1>	71	4	97	7	16	.37	.12	5>	1>	.06	19	5	.019	3.8	15	.15	1.2	2>	15
159	KGj44	1>	1>	88	6	234	7	11	.47	.13	5>	1>	.13	59	6	.020	3.6	17	.15	1.2	2>	16
160	KGj45	1>	1>	67	3	86	7	15	.34	.12	21	1>	.03	15	5	.018	1.1	14	.16	1.0	2>	15
161	KHg01	4	3	105	5	88	55	66	.50	.56	48	3	.12	57	7	.050	2.7	23	.15	1.0	5	27
162	KHg02	1>	1>	80	3	92	5	14	.22	.03	5>	1>	.02	17	2	.018	2.4	14	.11	.6	2>	8
163	KHg03	6	1>	55	1	116	5	14	.15	.03	6	1>	.01	14	6	.020	3.8	11	.12	.8	2>	7
164	KHg04	1>	11	119	9	158	80	229	.60	.75	60	2	.13	71	10	.031	7.0	26	.18	1.4	2>	36
165	KHg05	19	15	140	19	1283	139	486	.73	1.00	190	4	.20	395	52	.027	10.1	33	.20	1.2	3	48
166	KHg06	3	1>	93	1>	81	6	23	.29	.06	5>	1>	.04	13	8	.019	2.1	19	.15	1.0	4	10
167	KHg07	4	1>	124	3	84	5	22	.36	.05	5>	1>	.05	16	9	.021	2.2	20	.16	1.2	2>	9
168	KHg08	1	1>	274	1>	102	6	14	.85	.06	5>	1>	.12	16	9	.019	1.5	37	.19	1.2	2>	10
169	KHg09	1>	1>	97	3	78	6	15	.31	.07	5>	1>	.03	13	11	.024	2.1	19	.18	2.4	2	11
170	KHg10	9	1>	104	2	85	9	17	.36	.08	5>	1	.04	19	10	.023	3.8	20	.17	1.2	6	13
171	KHg11	1>	1>	103	2	81	6	11	.34	.07	5>	1>	.04	16	12	.025	2.4	19	.13	.8	3	12
172	KHg12	8	1>	80	3	109	7	15	.27	.08	15	1	.04	16	8	.020	2.8	17	.15	1.4	4	12
173	KHg13	1>	1>	105	4	85	7	16	.41	.11	5>	1>	.05	16	11	.019	1.5	21	.14	1.0	2	14
174	KHg14	1>	1>	93	2	107	8	13	.32	.09	5>	1>	.04	17	8	.020	1.0	18	.18	1.2	2>	12
175	KHg15	4	1>	91	4	118	7	15	.33	.08	5>	1>	.04	18	3	.026	.9	18	.16	.8	2>	12
176	KHg16	3	1>	88	4	103	9	15	.37	.12	5>	1>	.04	20	7	.022	3.6	20	.16	1.2	2>	15
177	KHg17	1>	1>	83	4	114	9	20	.31	.10	5	1>	.03	18	4	.019	1.1	16	.14	.8	3	14
178	KHg18	1>	1>	139	3	90	8	16	.50	.15	5>	1>	.07	15	6	.034	.8	23	.13	1.2	2	20
179	KHg19	1>	1>	80	2	90	6	15	.24	.07	5>	1>	.04	14	10	.021	1.1	15	.12	1.0	3	11
180	KHg20	5	1>	102	3	89	6	15	.37	.08	5>	1>	.04	16	8	.020	3.1	19	.16	1.4	2>	13
181	KHg21	3	1>	57	4	109	6	14	.19	.06	5>	1	.01	18	11	.018	.2	14	.12	1.0	3	11
182	KHg22	1>	1>	85	2	165	6	15	.29	.07	5>	1>	.03	25	9	.021	1.0	16	.16	1.4	3	11
183	KHg23	1>	1>	160	4	92	6	23	.54	.07	5>	1>	.07	14	7	.035	.2>	25	.16	1.2	2>	11
184	KHg24	1>	1>	82	4	124	6	16	.27	.08	18	1>	.03	14	10	.021	1.2	17	.16	1.2	2>	12
185	KHg25	1>	1>	96	4	100	7	17	.34	.09	12	1>	.04	18	8	.020	3.7	18	.14	1.0	3	14
186	KHg26	1>	1>	61	3	116	6	14	.19	.06	24	1>	.02	22	10	.019	2.5	14	.15	1.4	2>	12
187	KHg27	2	1>	100	2	108	6	16	.36	.09	8	2	.06	20	7	.022	4.1	20	.16	1.8	2>	14
188	KHg28	6	1>	112	4	97	6	20	.36	.07	5>	1>	.05	15	8	.018	1.6	20	.15	1.2	2	13
189	KHg29	1>	1>	51	3	91	5	22	.16	.04	5>	1>	.01>	17	11	.019	2.2	12	.14	1.6	3	8
190	KHg30	1>	1>	49	5	96	6	18	.16	.04	5>	1>	.01	15	6	.027	3.3	12	.12	1.0	3	9
191	KHg31	1>	1>	87	3	136	6	12	.27	.05	5>	1	.04	42	10	.021	3.5	17	.13	1.2	2>	11
192	KHg32	1>	1>	126	3	100	7	12	.44	.10	5>	1>	.06	16	7	.019	3.0	22	.15	1.2	3	14
193	KHg33	3	1>	106	4	75	6	10>	.37	.08	5>	1>	.05	13	8	.019	3.2	20	.16	2.0	2>	12
194	KHg34	3	1>	127	3	83	5	12	.40	.05	5>	1>	.07	15	3	.020	3.9	23	.16	1.4	2>	10
195	KHg35	1>	1>	92	4	96	5	10>	.29	.06	26	1	.04	17	7	.019	2.9	19	.17	1.6	3	12
196	KHg36	7	1>	95	3	81	6	10	.30	.06	17	1>	.04	15	10	.019	2.5	19	.13	.8	2>	11
197	KHg37	1>	1>	83	4	86	7	11	.29	.08	23	1	.05	17	12	.022	1.0	18	.13	.8	3	12
198	KHg38	3	1>	120	5	99	8	18	.49	.16	5>	2	.10	18	11	.055	2.7	26	.15	1.2	3	20
199	KHg39	1>	1>	106	2	97	9	12	.43	.13	20	1>	.05	21	10	.020	1.5	20	.16	1.4	3	19
200	KHg40	1>	1>	80	3	115	6	11	.28	.07	5>	1>	.03	19	7	.024	2.2	16	.13	1.0	2	11

List of Geochemical Analysis(5)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
201	KHg41	8	1>	83	2	100	8	14	.32	.12	5>	1>	.06	15	9	.029	.2>	20	.13	1.0	2>	15
202	KHg42	1>	1>	78	4	112	7	12	.33	.12	5>	1>	.06	12	11	.030	2.5	20	.12	1.2	4	16
203	KHg43	3	2	93	6	93	7	12	.40	.11	5>	1	.05	13	7	.020	4.2	22	.19	2.2	5	12
204	KHg44	2	1>	65	3	165	6	10>	.23	.08	5>	1>	.02	20	8	.018	3.9	15	.14	1.0	2>	12
205	KHg45	2	1>	78	3	204	6	11	.26	.09	5>	1	.04	12	3	.018	5.7	17	.12	1.0	3	12
206	KHg46	1>	1>	100	4	219	6	16	.34	.10	36	1	.05	12	12	.018	3.4	19	.15	1.2	2	14
207	KHg47	8	1>	78	3	208	6	15	.26	.09	34	1	.04	12	10	.024	2.7	16	.12	.8	3	13
208	KHg48	1>	1>	116	2	183	8	15	.42	.10	5>	1>	.08	9	3	.030	4.6	23	.17	1.6	2>	13
209	KHh01	1>	19	122	9	319	106	138	.69	.97	100	1>	.18	88	10	.055	5.8	27	.20	1.6	2>	37
210	KHh02	1>	1>	145	15	206	20	47	.70	.95	40	1>	.30	99	9	.044	4.6	34	.18	1.4	2>	30
211	KHh03	1>	19	101	6	220	66	98	.53	.70	64	2	.13	64	4	.047	5.0	23	.16	1.0	2>	30
212	KHh04	1	1>	93	4	128	6	31	.29	.08	5>	1>	.06	15	6	.019	3.3	18	.11	.8	2>	9
213	KHh05	5	1>	121	4	122	4	23	.39	.05	5>	1>	.03	10	3	.018	1.3	17	.13	1.0	2>	11
214	KHh06	1>	1>	80	1>	111	5	25	.29	.06	5>	1>	.03	13	4	.019	5.6	14	.14	1.4	3	10
215	KHh07	1>	1>	80	1>	106	5	16	.30	.07	5>	1>	.03	9	2	.019	2.1	15	.14	1.2	2>	10
216	KHh08	4	1>	75	2	109	9	34	.25	.06	5>	1>	.03	10	2>	.020	1.5	14	.13	.8	2>	8
217	KHh09	1>	1>	99	3	165	4	14	.33	.05	5>	1>	.04	9	4	.023	.8	16	.14	1.6	2>	8
218	KHh10	1>	1>	48	1	138	4	15	.14	.03	5>	1>	.01	8	4	.017	3.7	12	.11	.8	2>	7
219	KHh11	5	1>	49	3	160	4	14	.16	.04	5>	1>	.02	11	2>	.016	.8	11	.10	.6	2>	7
220	KHh12	3	1>	54	1>	147	4	12	.17	.04	17	1>	.02	8	8	.018	2.5	12	.11	.8	2>	7
221	KHh13	1>	1>	65	1>	100	5	14	.22	.06	5>	1>	.01	11	10	.018	2.4	14	.15	1.4	2>	9
222	KHh14	9	1>	27	1>	90	4	10>	.07	.01	5>	1>	.01>	7	5	.017	2.8	8	.10	.8	2>	3
223	KHh15	1>	1>	109	4	86	10	12	.62	.21	24	1>	.07	16	2>	.026	3.7	29	.19	1.6	2>	23
224	KHh16	3	1>	86	1	95	5	13	.28	.08	36	1>	.03	10	2>	.017	1.7	17	.13	.8	2>	11
225	KHh17	1>	1>	56	3	101	6	15	.21	.06	37	1>	.01	9	2>	.020	3.3	14	.13	1.2	2>	7
226	KHh18	1>	1>	96	1	170	6	14	.36	.07	5>	1>	.04	9	7	.021	3.4	17	.15	1.0	2>	10
227	KHh19	5	40	113	8	354	84	244	.61	.67	122	1>	.13	67	7	.066	6.6	25	.20	2.0	2>	35
228	KHh20	2	1>	126	1	158	6	24	.43	.05	5>	1>	.04	8	4	.018	2.7	16	.14	1.0	2>	8
229	KHh21	4	1	95	2	120	5	20	.32	.07	24	1>	.05	10	4	.018	3.4	18	.13	.8	2>	10
230	KHh22	1>	1>	55	1>	115	5	44	.20	.06	5>	1>	.01	14	2	.018	3.3	11	.13	.8	2>	8
231	KHh23	7	1>	66	2	102	5	14	.26	.07	5>	1>	.04	10	4	.018	2.0	15	.13	.8	2>	11
232	KHh24	1	1>	61	2	107	6	16	.25	.07	5>	1>	.03	7	4	.018	.3	14	.13	1.4	2>	10
233	KHh25	10	1>	60	1>	99	5	21	.23	.06	5>	1>	.03	8	6	.018	2.3	14	.13	1.2	2>	9
234	KHh26	4	1>	44	1>	215	4	17	.15	.04	5>	1>	.02	8	3	.017	2.6	10	.11	.6	2>	7
235	KHh27	1>	1>	56	1>	260	5	25	.20	.05	5>	1>	.02	8	3	.018	4.3	12	.13	1.2	2>	9
236	KHh28	3	1>	69	1>	229	4	20	.23	.04	5>	1>	.04	8	3	.017	2.9	14	.11	.8	2>	7
237	KHh29	1>	1>	71	1>	168	7	54	.32	.10	5>	1>	.03	9	2>	.019	3.0	15	.14	.8	2>	12
238	KHh30	1>	1>	103	1	106	5	20	.37	.06	5>	1>	.03	7	4	.018	1.6	15	.15	.6	2>	9
239	KHh31	6	1>	112	1>	101	5	10	.40	.07	5>	1>	.03	8	3	.020	1.7	16	.16	1.0	2>	11
240	KHh32	1>	1>	62	3	101	6	16	.29	.10	5>	1>	.03	8	4	.021	1.7	14	.16	1.2	2>	11
241	KHh33	1>	1>	42	1	148	5	10>	.16	.05	5>	1>	.01>	28	6	.017	3.1	11	.10	.8	2>	8
242	KHh34	1>	1>	86	1>	148	6	10>	.31	.07	5>	1>	.04	8	2	.022	2.1	15	.14	1.0	2>	10
243	KHh35	1>	1>	26	1	252	3	10>	.05	.01>	5>	1>	.01>	6	4	.017	2.0	9	.08	.6	2>	3
244	KHh36	1>	1>	98	4	177	8	14	.43	.13	5>	1>	.04	11	4	.019	1.9	19	.19	1.2	2>	15
245	KHh37	2	1>	84	4	210	7	10>	.36	.12	35	1>	.03	12	5	.018	3.7	17	.15	.8	2>	14
246	KHh38	6	1>	95	1	141	8	13	.42	.14	9	1>	.04	11	4	.019	3.7	19	.19	1.8	2>	16
247	KHh39	1>	1>	73	2	107	6	10>	.29	.09	5>	1>	.02	9	6	.019	2.2	16	.16	1.2	2>	12
248	KHh40	8	1>	77	2	149	7	10>	.33	.11	11	1>	.03	12	7	.018	1.2	16	.14	.8	2>	13
249	KHh41	1>	1>	61	4	107	6	10>	.27	.10	5>	1>	.02	8	2>	.018	1.6	14	.15	1.0	2>	13
250	KHh42	1>	1>	61	1>	181	6	10>	.27	.09	5>	1>	.02	9	7	.018	3.6	14	.13	.6	2>	11

List of Geochemical Analysis(6)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
251	KHh43	7	1>	87	1	119	9	10>	.50	.18	5>	1>	.08	24	6	.019	4.8	19	.19	1.4	2>	20
252	KHh44	1>	1>	75	2	80	5	10>	.30	.09	5>	1>	.03	12	2>	.018	6.1	13	.16	1.0	2>	12
253	KHh45	4	1>	54	2	94	7	10>	.27	.10	5>	1>	.02	13	5	.019	5.3	12	.14	.6	2>	11
254	KHh46	1>	1>	59	2	90	7	10	.28	.11	6	1>	.03	16	6	.020	2.4	14	.13	1.0	2>	22
255	KHh47	1>	1>	42	1>	159	6	10>	.21	.08	5>	1>	.01	9	8	.016	4.1	10	.15	1.2	2>	8
256	KHh48	10	1>	57	4	99	6	10>	.25	.11	17	1>	.03	11	3	.017	2.8	13	.16	1.8	2>	12
257	KHh49	4	1>	85	4	98	8	12	.35	.19	5>	1>	.05	15	4	.019	3.7	16	.16	1.0	2>	18
258	KHh50	1>	1>	63	2	85	8	12	.33	.14	5>	1>	.02	12	4	.017	1.4	13	.17	1.0	2>	13
259	KHj01	4	1>	62	1>	74	6	10>	.31	.11	5>	1>	.03	8	4	.017	2.3	13	.15	.8	2>	12
260	KHj02	1>	1>	58	1	81	5	10	.28	.07	5>	1>	.01	12	2>	.018	2.6	9	.17	1.2	2>	8
261	KHj03	3	1>	38	1>	63	5	15	.16	.05	5>	1>	.01>	8	2>	.018	2.9	11	.10	.6	2>	7
262	KHj04	2	1>	49	1>	126	5	14	.17	.06	5>	1>	.01	11	4	.018	3.2	11	.12	1.0	2>	11
263	KHj05	1>	1>	48	2	96	6	10>	.22	.07	5>	1>	.02	9	2	.017	2.7	12	.15	1.2	2>	9
264	KHj06	3	1>	54	1	91	6	10	.23	.09	5>	1>	.03	11	2>	.017	1.5	13	.14	1.4	2>	11
265	KHj07	2	1>	64	4	108	7	10>	.30	.11	5>	1	.04	42	2	.024	3.7	15	.18	1.6	2>	14
266	KHj08	3	1>	60	4	104	8	13	.27	.12	15	1>	.03	15	5	.018	4.2	14	.15	1.0	2>	14
267	KHj09	1>	1>	67	2	76	6	11	.33	.12	5>	1>	.04	14	2>	.019	.9	15	.15	.8	2>	13
268	KHj10	1>	1>	49	1>	97	5	10>	.20	.07	5>	1>	.03	11	2>	.017	2.3	11	.11	.8	2>	10
269	KHj11	3	1>	27	3	101	4	10>	.10	.02	5>	1>	.01>	10	4	.017	1.3	9	.12	.8	2>	6
270	KHj12	1>	1>	51	2	140	7	10>	.23	.08	5>	1>	.02	12	4	.023	.2>	12	.12	.8	2>	10
271	KHj13	1>	1>	70	3	82	6	11	.35	.10	5>	1>	.03	10	3	.021	2.0	14	.14	1.0	2>	11
272	KHj14	1	1>	35	2	109	5	14	.14	.04	5>	1>	.01>	7	2>	.018	2.4	10	.11	1.0	2>	8
273	KHj15	1	1>	52	4	95	6	10>	.24	.08	5>	1>	.02	12	3	.019	1.8	15	.13	1.2	2>	10
274	KHj16	3	1>	58	3	102	6	10>	.33	.09	5>	1>	.01	11	2>	.020	3.8	19	.16	.8	2>	10
275	KHj17	1>	1>	51	2	108	6	12	.23	.09	24	1>	.02	9	2>	.017	2.8	13	.14	.6	2>	11
276	KHj18	1>	1>	46	2	121	6	10>	.20	.08	30	1>	.02	16	3	.018	1.8	12	.13	.8	2>	11
277	KHj19	7	1>	57	2	119	7	10>	.29	.11	5>	1>	.03	12	4	.017	2.6	14	.18	1.0	2>	13
278	KHj20	1	1>	45	2	105	5	10>	.21	.08	5>	1>	.02	8	2>	.018	2.5	12	.13	1.0	2>	9
279	KHj21	8	1>	38	1>	93	4	10>	.14	.04	5>	1>	.01	8	2>	.018	2.0	9	.10	1.0	2>	9
280	KHj22	1>	1>	40	1>	138	5	12	.19	.05	5>	1>	.01>	11	2>	.033	3.3	15	.15	1.8	2>	7
281	KHj23	4	1>	50	2	86	5	12	.22	.08	5>	1>	.03	8	2	.017	1.2	12	.13	1.0	2>	12
282	KHj24	1>	1>	51	1	81	5	10>	.24	.08	5>	1>	.03	10	6	.017	2.2	11	.14	1.0	2>	11
283	KHj25	14	1>	63	3	81	5	10>	.27	.08	5>	1>	.03	10	3	.018	3.2	13	.13	1.0	2>	10
284	KHj26	1>	1>	79	10	135	11	12	.56	.39	108	1>	.09	53	2>	.020	4.2	19	.22	1.4	2>	26
285	KHj27	1>	1>	19	52	703	22	10>	.12	5.39	978	1>	1.62	261	2>	.068	5.4	96	.79	.2	2>	73
286	KHj28	2	1>	89	33	1255	31	13	.66	3.16	638	1>	.29	366	2>	.028	9.8	29	.26	.8	2>	74
287	KHj29	1>	1>	64	29	1358	16	15	.45	1.36	445	1>	.16	220	2>	.031	7.0	24	.20	1.2	2>	58
288	KHj30	6	1>	32	80	8802	29	12	.29	7.03	1250	1>	.38	822	2>	.037	37.1	44	.29	.2	2>	181
289	KHj31	1>	1>	55	91	20712	12	15	.24	4.68	972	1>	.11	709	2>	.028	96.1	14	.12	.4	2>	207
290	KHj32	1>	1>	20	126	25654	23	15	.09	7.04	1306	1>	.16	1193	2>	.032	124.1	18	.34	.2>	2>	274
291	KHj33	4	1>	10>	172	21776	27	30	.01>	5.19	661	1>	.09	1318	2>	.024	96.5	6	.15	.2>	2>	336
292	KHj34	1>	1>	19	95	7894	13	11	.11	12.92	1134	1>	.09	1605	2>	.028	17.1	7	.10	.2	2>	165
293	KHj35	8	1>	10>	119	26267	11	10	.01>	15.15	1280	1>	.06	1881	2>	.027	113.4	3	.07	.2>	2>	280
294	KHj36	1>	1>	10>	128	19232	10	10>	.01>	11.81	1349	1>	.11	1689	2>	.029	59.9	6	.09	.2>	2>	263
295	KHj37	1>	1	49	71	3715	16	10>	.26	6.25	984	1>	.07	949	2>	.025	18.4	11	.15	.6	2>	100
296	KHj38	10	1>	10>	142	7990	18	12	.01>	12.82	1975	1>	.17	2015	2>	.033	23.3	8	.13	.2>	2>	185
297	KHj39	3	1>	48	55	4418	12	10>	.21	4.45	837	1>	.06	630	2>	.024	16.9	10	.14	.6	2>	96
298	KHj40	7	1>	10>	102	7922	11	10>	.01>	18.03	1214	1>	.12	1838	2>	.032	5.2	4	.10	.2>	2>	199
299	KJg01	13	1	125	4	158	51	77	.53	.57	58	1>	.14	74	8	.030	4.0	26	.16	1.0	2>	28
300	KJg02	1>	23	126	7	182	71	151	.55	.72	117	1>	.19	76	7	.043	6.9	30	.18	1.8	2>	32

List of Geochemical Analysis(7)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
301	KJg03	1>	1>	52	5	173	8	13	.16	.11	94	1>	.04	23	6	.018	3.6	14	.13	1.0	2>	9
302	KJg04	1>	1>	92	2	85	5	10>	.35	.07	5>	1>	.02	9	4	.018	.4	16	.14	1.2	2>	10
303	KJg05	1>	1>	41	1>	104	6	10>	.13	.05	5>	1>	.01>	7	2	.017	3.8	10	.15	1.8	2	7
304	KJg06	1>	1>	49	1>	88	6	10>	.17	.07	5>	1>	.01>	8	5	.020	.2>	13	.13	1.0	2>	9
305	KJg07	1>	1>	61	4	75	7	10>	.25	.09	5>	1>	.01	11	5	.017	2.5	14	.15	1.0	2>	11
306	KJg08	1>	8	125	9	166	75	92	.60	.68	40	1>	.15	64	11	.036	6.2	27	.18	1.2	2>	31
307	KJg09	1>	2	123	9	166	56	76	.59	.45	31	1>	.14	40	7	.050	3.4	25	.19	1.6	2>	26
308	KJg10	1>	1>	95	7	223	7	12	.31	.19	80	1>	.15	30	5	.017	1.9	24	.11	.8	2>	11
309	KJg11	1>	1>	68	1	93	8	12	.23	.11	5>	1>	.05	15	9	.017	2.5	17	.15	1.0	3	9
310	KJg12	1>	12	232	20	158	40	75	1.01	.75	907	2	.38	110	15	.025	6.7	47	.29	2.4	2>	46
311	KJg13	1>	16	276	17	186	179	235	1.64	1.30	373	4	.35	123	33	.035	7.5	53	.37	3.0	2>	72
312	KJg14	1>	12	315	15	133	102	144	1.68	.98	86	3	.35	81	20	.036	6.4	60	.42	2.8	2>	71
313	KJg15	1>	1	47	2	117	5	12	.13	.03	5>	1>	.01>	13	5	.017	1.4	11	.12	1.2	2>	8
314	KJg16	1>	2	227	7	131	27	40	.77	.27	377	1>	.18	36	19	.022	3.1	38	.17	1.6	2>	20
315	KJg17	1>	1>	133	7	203	19	26	.42	.20	89	1>	.07	30	3	.020	4.8	21	.12	.8	2>	15
316	KJg18	1>	32	260	32	229	225	320	1.48	1.50	1258	4	.31	173	40	.037	5.6	49	.37	2.6	2>	74
317	KJg19	1>	34	143	11	254	137	219	.79	1.11	239	4	.20	108	11	.036	8.4	31	.25	2.0	2>	42
318	KJg20	1>	1>	137	6	104	20	36	.45	.23	115	1>	.08	36	8	.023	2.4	22	.13	1.0	2	16
319	KJg21	1>	9	175	7	149	121	167	.83	1.13	131	2	.36	116	10	.022	9.4	41	.19	1.2	2>	46
320	KJg22	1>	15	160	9	171	121	212	.83	1.02	92	3	.25	93	17	.023	2.8	36	.22	1.8	2	42
321	KJg23	1>	21	161	6	152	118	214	.84	1.02	89	3	.26	96	15	.023	1.3	36	.20	1.8	3	43
322	KJg24	1>	25	159	18	239	184	214	.91	1.39	311	5	.22	137	14	.039	2.1	34	.26	2.4	2>	53
323	KJg25	1>	26	158	16	264	169	240	.91	1.35	343	4	.22	137	19	.039	9.2	33	.26	1.8	2	54
324	KJh01	1>	1>	86	3	204	5	17	.23	.04	5>	1>	.02	10	2	.021	2.0	14	.15	1.6	2>	8
325	KJh02	1>	1>	189	3	77	8	14	.71	.13	5>	1>	.08	10	8	.020	.2>	28	.17	1.0	2>	18
326	KJh03	1>	1>	37	1>	89	3	10>	.08	.01>	5>	1>	.01>	8	3	.016	3.5	6	.10	.6	2>	3
327	KJh04	1>	1>	61	2	89	5	14	.16	.03	5>	1>	.01	10	3	.019	1.4	12	.11	.6	2>	7
328	KJh05	1>	1>	91	2	99	5	11	.30	.07	5>	1>	.05	9	6	.020	1.9	17	.13	.8	2>	11
329	KJh06	1>	1>	110	1>	101	5	13	.36	.06	5>	1>	.03	7	3	.020	.7	17	.18	4.0	2>	9
330	KJh07	1>	1>	59	1>	179	5	10>	.16	.03	5>	1>	.02	8	5	.018	2.9	12	.11	.8	2>	7
331	KJh08	1>	1>	54	3	138	5	10>	.18	.04	5>	1>	.01	8	5	.019	1.4	12	.13	1.0	2>	6
332	KJh09	1>	1>	78	2	113	6	10	.26	.07	5>	1>	.02	9	5	.018	2.2	14	.14	.8	2	10
333	KJh10	1>	1>	55	1	101	4	10>	.16	.04	5>	1>	.01	11	3	.017	2.0	10	.12	.8	2>	7
334	KJh11	1>	1>	81	2	110	6	10	.28	.08	7	1>	.03	11	10	.019	4.6	16	.14	1.0	2>	11
335	KJh12	1>	1>	106	4	97	6	17	.38	.09	5>	1>	.05	12	6	.022	2.2	18	.15	.6	2>	12
336	KJh13	1>	1>	116	2	122	8	10>	.47	.12	5>	1>	.06	15	10	.024	.5	22	.17	1.4	2>	15
337	KJh14	1>	1>	69	1	114	5	10>	.27	.06	5>	1>	.01	10	4	.018	3.0	12	.15	.8	2>	8
338	KJh15	1>	2	47	1>	173	6	10>	.18	.06	5>	1>	.01	13	6	.019	4.2	13	.11	1.0	2>	9
339	KJh16	1>	1>	32	2	166	4	10>	.07	.01	5>	1>	.01>	8	2>	.016	.2>	8	.10	.6	2>	4
340	KJh17	1>	1>	67	1>	119	4	10>	.17	.03	35	1	.01	12	9	.018	.2>	12	.10	.6	3	8
341	KJh18	1>	1>	90	3	119	5	12	.33	.08	5>	1>	.05	9	6	.020	1.6	17	.13	1.4	2>	11
342	KJh19	1>	1>	55	2	137	4	10>	.18	.05	5>	1>	.02	13	2>	.018	.7	12	.10	.8	2>	8
343	KJh20	1>	1>	66	4	154	8	10>	.35	.17	5>	1>	.07	13	4	.018	2.5	15	.20	1.8	2>	16
344	KJh21	1>	1>	101	2	190	6	10>	.39	.10	5>	1>	.05	13	5	.019	1.4	18	.14	1.0	3	13
345	KJh22	1>	1>	56	1>	186	4	10>	.17	.04	5>	1>	.02	11	4	.017	2.4	10	.11	1.0	2>	7
346	KJh23	1>	1>	95	3	101	6	10>	.41	.11	5>	1>	.04	13	3	.019	.3	17	.18	1.4	2>	12
347	KJh24	1>	1>	82	2	127	6	10>	.33	.09	5>	1>	.03	9	7	.018	1.5	15	.14	1.2	2	11
348	KJh25	1>	1>	79	1>	144	6	10>	.33	.09	5>	1>	.04	8	7	.019	1.8	18	.13	.8	2	12
349	KJj01	1>	1>	47	40	2340	22	10>	.28	2.92	612	1>	.19	357	2>	.022	16.1	16	.21	.4	2	66
350	KJj02	1>	1>	62	4	129	8	10>	.32	.15	25	1>	.01	13	5	.018	5.6	13	.14	1.0	3	13

List of Geochemical Analysis(8)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
351	KJj03	1>	1>	68	1	130	8	10>	.31	.12	5>	1>	.03	20	3	.017	.6	13	.15	1.4	2>	13
352	KJj04	1>	1>	43	32	1407	9	10>	.24	2.21	297	1>	.09	320	2>	.019	8.6	13	.15	.8	4	50
353	KJj05	1>	1>	49	19	961	8	10>	.25	.88	75	1>	.08	160	4	.017	3.3	14	.15	1.0	2>	39
354	KJj06	1>	1>	18	97	5445	14	10>	.11	10.58	1180	1>	.19	1263	2>	.028	21.0	12	.11	.2	2>	160
355	KJj07	3	1>	10>	135	6782	18	10	.01>	13.93	1632	1>	.21	1801	2>	.030	6.6	11	.11	.2>	2>	192
356	KJj08	1>	1>	59	12	344	7	13	.27	.52	184	1>	.11	86	4	.015	6.4	16	.22	1.4	2>	26
357	KJj09	1>	1>	51	4	104	7	10>	.31	.10	5>	1>	.01	13	2>	.015	1.1	12	.16	1.8	2>	11
358	KJj10	1>	1>	45	61	3947	21	10>	.27	4.01	536	1>	.16	560	2>	.019	17.3	16	.24	.4	2>	111
359	KJj11	1>	1>	48	153	2117	92	26	.60	2.34	2065	1>	.32	718	2>	.023	11.3	25	.91	.2	2>	133
360	KJj12	1>	1>	33	133	2889	62	27	.28	2.58	1501	1>	.23	1059	2>	.025	24.6	26	1.92	.4	2>	98
361	KJj13	1>	1>	45	1	71	4	11	.15	.03	5>	1>	.02	9	7	.016	.2>	10	.08	.6	2>	8
362	KJj14	1>	1>	59	1	65	9	11	.41	.16	5>	1	.01	8	10	.019	4.2	15	.19	1.6	2>	20
363	KJj15	1>	1>	62	1>	69	5	10>	.22	.06	5>	1>	.03	7	5	.016	.3	13	.11	.4	2>	9
364	KJj16	1>	1>	71	26	339	37	17	.33	.94	722	1>	.49	79	2>	.036	6.8	80	.38	.4	2>	49
365	KJj17	1>	1>	104	11	201	43	16	.43	.51	576	1>	.08	42	2>	.019	2.9	22	.27	.4	2>	34
366	KJj18	1>	1>	69	1	75	6	10>	.29	.08	5>	1>	.05	11	6	.017	.3	15	.15	1.2	2>	12
367	LFj01	1>	1>	61	2	106	7	10	.29	.10	68	1>	.02	13	8	.017	1.0	14	.13	.8	2>	14
368	LFj02	1>	1>	67	4	79	8	10	.36	.14	51	1>	.02	13	5	.017	.2	14	.14	.8	2>	17
369	LFj03	1>	1>	70	3	84	7	10>	.31	.12	85	1>	.02	11	3	.017	.9	15	.14	.8	2>	17
370	LFj04	1>	1>	58	6	76	6	10>	.29	.11	36	1>	.01	11	8	.016	.4	13	.14	.6	2>	14
371	LFj05	1>	1>	65	3	131	6	10>	.31	.12	63	1	.02	23	10	.017	.7	15	.14	1.0	2>	16
372	LFj06	1>	1>	65	4	80	7	10>	.35	.12	61	1>	.02	13	8	.017	.2>	15	.14	1.0	2>	15
373	LFk01	1>	1>	69	7	358	20	10>	.41	.27	5>	2	.03	63	6	.018	2.4	15	.19	1.4	2>	25
374	LFk02	1>	1>	59	4	153	8	10>	.35	.17	35	2	.02	24	2	.021	3.0	14	.15	.8	2>	17
375	LFk03	1>	1>	40	1	108	4	10>	.19	.06	5>	1>	.01	11	2>	.016	.3	10	.10	1.4	2>	11
376	LFk04	1>	1>	79	5	102	10	10>	.53	.24	68	1>	.01	23	4	.017	.2>	15	.18	1.4	2>	20
377	LFk05	1>	1>	97	6	87	12	10>	.77	.31	62	1>	.02	25	5	.016	.2>	18	.22	1.6	2>	24
378	LFk06	1>	1>	42	5	84	7	10>	.26	.10	5>	1>	.01	11	5	.015	1.6	12	.15	1.0	2>	10
379	LFk07	1>	1>	78	6	112	9	10>	.50	.18	75	1>	.01	18	2>	.018	.9	17	.16	1.4	2>	19
380	LFk08	1>	1>	75	3	84	10	10>	.53	.19	94	1>	.02	13	7	.017	.2>	16	.16	1.2	2>	19
381	LFk09	1>	1>	78	5	84	9	10>	.55	.20	72	1>	.02	14	6	.018	.2>	17	.17	1.2	2>	20
382	LFk10	1>	1>	63	3	94	7	10>	.31	.12	35	1>	.02	13	5	.017	.2>	15	.14	1.0	2>	15
383	LFk11	1>	1>	71	5	102	8	10>	.41	.15	63	1>	.03	14	9	.018	.2	16	.16	1.2	2>	17
384	LFk12	1>	1>	58	5	128	8	10>	.39	.14	19	1>	.02	27	7	.017	.7	15	.15	1.0	2>	17
385	LFk13	1>	1>	64	2	83	8	10>	.35	.12	34	1>	.01	12	2>	.017	.7	14	.15	1.2	2>	16
386	LFk14	1>	1>	78	9	194	11	10>	.45	.35	145	1>	.18	39	2>	.020	5.3	22	.21	1.0	2>	27
387	LFk15	1>	1>	72	6	113	9	10>	.50	.27	46	1>	.05	24	5	.019	1.1	17	.23	.8	2>	22
388	LFk16	1>	1>	80	30	604	27	10>	.64	1.54	792	1>	.41	181	2>	.027	8.1	34	.61	1.0	2>	61
389	LFk17	1>	1>	37	14	889	8	13	.14	.47	53	1>	.08	135	3	.019	5.6	12	.18	.6	2>	36
390	LFk18	1>	1>	76	17	340	26	13	.52	.58	1128	1>	.30	55	8	.021	12.7	30	2.11	1.2	2>	41
391	LFk19	1>	1>	64	5	83	8	10>	.44	.18	43	1>	.04	16	10	.018	.3	15	.19	.8	2>	19
392	LFk20	1>	1>	12	110	3407	23	10>	.10	15.77	1201	1>	.17	1847	2>	.034	.2>	9	.11	.2>	2>	175
393	LFm01	1>	1>	99	23	384	29	10	.72	1.27	768	1>	.41	120	3	.027	7.7	38	.59	1.2	2>	58
394	LFm02	1>	1>	87	26	476	27	13	.63	1.22	785	1>	.39	131	5	.026	9.0	35	.73	1.0	2>	56
395	LFm03	1>	1>	48	68	3330	23	11	.41	7.59	1048	1>	.31	887	2>	.033	15.7	21	.37	.8	2>	136
396	LFm04	1>	1>	41	89	3947	26	11	.33	8.84	1295	1>	.30	1127	2>	.034	12.6	20	.33	.6	2>	145
397	LFm05	1>	1>	52	71	2738	26	10>	.43	6.90	1125	1>	.34	876	2>	.033	14.0	23	.39	.4	2>	124
398	LFm06	1>	1>	121	79	7868	27	10	.25	6.14	1985	1>	.64	925	2>	.039	37.2	29	2.40	.2	2>	207
399	LFm07	1>	1>	346	25	635	26	13	.66	.90	631	1>	.27	144	5	.033	3.7	28	.52	1.2	2>	62
400	LFm08	1>	1>	99	17	525	25	10	.67	1.04	818	1>	.30	93	2	.031	10.7	37	.75	1.0	2>	53

List of Geochemical Analysis(9)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
401	LFm09	1>	1>	106	17	461	28	12	.74	1.09	816	1>	.33	96	2>	.026	4.7	36	.60	1.2	2>	52
402	LFm10	1>	1>	15	47	1027	47	25	.05	1.59	1451	1>	.89	196	2>	.037	15.9	33	2.20	.2>	2>	50
403	LFm11	1>	1>	22	36	597	37	25	.18	2.52	1373	1>	1.00	135	2>	.046	17.7	42	2.24	.4	2>	67
404	LFm12	1>	1>	10>	57	907	42	20	.01	2.03	2314	1>	.28	155	2>	.040	30.1	32	5.23	.2>	2>	61
405	LFm13	1>	1>	15	36	362	31	12	.08	2.87	1191	1>	1.46	110	2>	.048	14.7	57	1.87	.2>	2>	61
406	LFm14	1>	1>	10>	31	861	56	49	.03	1.99	686	1>	1.18	209	2>	.040	10.8	32	1.37	.2>	2>	60
407	LFm15	1>	1>	24	37	405	31	14	.22	2.41	1213	1>	1.01	100	2>	.046	14.7	42	1.88	.4	2>	62
408	LFm16	1>	1>	46	59	1296	46	13	.18	4.42	1914	1>	.84	362	2>	.046	18.1	33	1.21	.2	2>	92
409	LFn01	1>	1>	10>	51	681	24	10>	.01	3.68	3048	1>	.69	121	2>	.055	30.2	39	4.70	.2	2>	87
410	LFn02	1>	1>	10>	23	514	40	28	.01>	.22	2531	1>	.06	72	2>	.021	29.0	2	6.60	.2	2>	40
411	LFn03	1>	1>	303	35	586	35	15	.19	2.43	1361	1>	.99	132	2>	.047	15.7	46	2.35	.4	2>	67
412	LFn04	1>	1>	10>	19	580	5	14	.01>	.31	2334	1>	.05	51	2	.018	18.1	4	3.23	.4	2>	30
413	LFn05	1>	1>	10>	53	743	11	10>	.01	2.75	4557	1>	.47	99	2>	.044	44.1	29	8.17	.2	2>	104
414	LFn06	1>	1>	10>	50	708	20	10>	.01	3.28	3875	1>	.58	117	2>	.048	38.6	34	6.13	.2>	2>	96
415	LFn07	1>	1>	10>	71	2884	34	13	.01>	1.35	3550	1>	.19	232	2>	.027	52.4	15	8.72	.4	2>	104
416	LFn08	1>	1>	10>	12	188	1>	13	.01>	.01	1845	1>	.01	12	2>	.017	22.8	3	4.54	.2	2>	22
417	LFn09	1>	1>	10>	16	223	9	25	.01>	.16	1333	1>	.12	34	2>	.021	20.4	9	3.69	.2	2>	29
418	LFn10	1>	1>	10>	54	75	1>	12	.03	.67	2006	1>	.82	21	2>	.025	30.3	32	5.36	.2	2>	37
419	LFn11	1>	1>	10>	30	94	23	15	.03	.44	1135	1>	.66	9	2>	.031	26.1	34	4.03	.2	2>	36
420	LFn12	1>	1>	10>	41	518	17	14	.01	1.59	2316	1>	.77	91	2>	.034	24.8	34	4.03	.2	2>	52
421	LFn13	1>	1>	12	36	599	22	15	.09	2.19	2190	1>	.78	99	2>	.043	26.4	37	3.50	.2	2>	68
422	LFn14	1>	1>	11	20	128	24	21	.04	.65	672	1>	.77	25	2>	.031	8.6	30	1.01	.2	2>	74
423	LFn15	1>	1>	10>	8	88	13	20	.02	.18	369	1	.42	14	2>	.023	2.1	13	.37	.2	2>	52
424	LGj01	1>	1>	62	4	93	7	10>	.36	.13	17	1>	.03	13	5	.019	.2>	14	.15	1.2	2>	14
425	LGj02	1>	1>	56	4	87	6	10>	.31	.10	8	1	.02	13	10	.018	1.0	14	.14	1.0	2>	13
426	LGj03	1>	1>	55	3	95	5	10>	.24	.08	61	1	.03	10	7	.020	2.6	11	.10	.6	2>	14
427	LGj04	1>	1>	60	4	127	5	10>	.25	.09	51	1>	.02	15	2>	.020	.2>	12	.11	.6	2>	11
428	LGj05	1>	1>	64	4	103	7	10>	.36	.13	7	1>	.04	10	6	.020	.2>	14	.14	1.0	2>	14
429	LGk01	1>	1>	86	5	111	10	10>	.55	.25	87	1>	.10	17	9	.022	.2>	20	.17	1.2	2>	25
430	LGk02	1>	1>	86	6	213	13	16	.49	.22	175	1	.07	20	4	.025	1.3	18	.15	1.0	2>	28
431	LGk03	1>	1>	66	1	120	6	10	.35	.16	5>	1>	.06	11	10	.022	.2>	16	.14	1.2	2>	19
432	LGk04	1>	1>	66	8	118	7	10>	.35	.16	56	1>	.06	13	5	.020	2.1	15	.14	1.2	2>	17
433	LGk05	1>	1>	122	158	6051	36	41	.27	1.32	1792	1>	.06	953	2>	.025	23.4	13	.18	1.0	2>	98
434	LGk06	1>	1>	61	131	11582	32	34	.28	9.23	858	1>	.09	1675	2>	.030	35.8	9	.18	.4	2>	192
435	LGk07	1>	1>	190	93	3496	79	17	.75	5.50	1121	1>	.41	982	2>	.033	16.1	32	.33	.6	2>	139
436	LGk08	1>	1>	374	15	130	33	10>	1.04	.61	538	2	.14	48	7	.021	2.5	30	.27	1.6	2>	48
437	LGk09	1>	1>	150	14	689	16	14	.51	.67	452	1>	.18	84	5	.025	5.0	24	.27	.8	2>	41
438	LGk10	1>	2	121	31	2017	24	15	.52	1.40	721	1>	.36	184	2>	.028	11.9	32	.53	1.2	2>	72
439	LGk11	1>	1>	122	9	715	17	14	.43	.43	192	2	.10	48	7	.024	4.1	21	.34	1.2	2>	32
440	LGk12	1>	1>	86	153	19062	26	15	.27	7.63	1117	1>	.26	1759	2>	.039	74.1	23	.19	.4	2>	232
441	LGk13	1>	1>	255	111	12295	48	27	.84	4.59	1062	1>	.25	1067	2>	.034	43.1	29	.27	.6	2>	173
442	LGk14	1>	1>	101	9	134	9	10>	.49	.32	80	1>	.07	35	2	.021	1.6	16	.24	1.4	2>	25
443	LGk15	1>	1>	73	74	4766	20	12	.12	3.59	2885	1>	.60	570	2>	.044	52.2	32	5.91	.4	2>	135
444	LGk16	1>	1>	153	48	1562	29	16	.18	2.93	1835	1>	.92	294	2>	.047	27.8	45	3.10	.4	2>	91
445	LGk17	1>	1>	157	223	13156	40	38	.14	4.08	2389	1>	.16	1722	2>	.034	55.4	17	.75	.4	2>	199
446	LGk18	1>	1>	10>	175	14595	17	15	.01>	11.04	2045	1>	.08	1693	2>	.035	47.1	3	.11	.2>	2>	235
447	LGk19	1>	1>	83	238	15631	44	46	.01	2.02	1201	1>	.02	1663	2>	.026	62.2	2	.17	.2	2>	250
448	LGk20	1>	1>	66	323	19041	38	32	.01	8.84	2705	1>	.06	2769	2>	.033	66.9	3	.14	.2>	2>	255
449	LGk21	1>	1>	447	56	488	122	17	.11	2.40	1567	1>	1.36	98	2>	.202	12.2	104	1.53	.2	2>	106
450	LGk22	1>	1>	34	45	1394	20	13	.10	2.68	2120	1>	.77	216	2>	.043	30.0	37	3.37	.4	2>	86

List of Geochemical Analysis(10)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
451	LGk23	1>	1>	33	47	1266	16	11	.06	3.18	2544	1>	1.11	193	2>	.047	13.0	47	2.66	.2	2>	97
452	LGk24	1>	1>	52	53	1205	21	10>	.06	2.93	2444	1>	1.19	203	2>	.043	18.3	50	2.76	.2	2>	96
453	LGk25	1>	1>	114	66	2098	28	11	.21	3.48	1252	1>	.94	458	2>	.034	15.6	38	1.76	.6	2>	103
454	LGk26	1>	1>	105	72	5050	22	10>	.14	6.34	1875	1>	.91	693	2>	.035	27.4	35	2.76	.2	2>	152
455	LGk27	3	1>	109	9	120	11	10>	.52	.35	67	1>	.07	42	6	.020	4.5	18	.25	1.8	2>	26
456	LGk28	4	1>	69	3	174	8	10>	.33	.26	95	1>	.04	34	8	.020	3.3	14	.25	1.4	2>	21
457	LGk29	1>	1>	32	81	3770	33	10>	.03	4.06	3235	1>	.76	393	2>	.051	24.6	44	4.25	.2	2>	148
458	LGk30	11	1>	79	7	125	9	10	.40	.33	98	1>	.06	30	9	.021	.2>	16	.34	1.6	2>	24
459	LGk31	10	1>	61	3	123	7	10>	.27	.15	48	1>	.02	18	8	.018	.5	14	.16	1.2	2>	15
460	LGk32	13	1>	64	3	148	6	10>	.25	.14	52	1>	.02	17	3	.019	1.7	13	.19	1.8	2>	15
461	LGk33	2	1>	74	4	96	13	10>	.36	.28	113	1>	.05	38	10	.020	.2	14	.18	1.0	2>	20
462	LGk34	6	1>	31	3	151	10	10>	.12	.19	89	1>	.04	25	6	.020	2.8	8	.13	.8	2>	12
463	LGk35	14	1>	162	2	106	10	10>	.56	.24	5>	1	.03	11	13	.020	3.0	17	.23	1.6	2>	23
464	LGk36	6	1>	86	4	96	9	10>	.43	.19	5>	1>	.01	11	11	.020	2.0	15	.22	1.6	2>	18
465	LGk37	13	1>	51	4	85	6	10>	.20	.10	19	1>	.02	10	2	.019	4.1	12	.12	.8	2>	13
466	LGk38	14	1>	29	3	124	5	10>	.10	.05	5>	1>	.01>	23	4	.019	1.2	7	.10	1.0	2>	7
467	LGk39	7	1>	82	5	92	6	10>	.29	.14	5>	1>	.05	15	9	.020	2.4	15	.16	1.0	2>	18
468	LGk40	11	1>	75	4	98	7	10>	.35	.16	16	1>	.03	14	10	.021	.6	14	.15	1.0	2>	18
469	LGk41	1	1>	80	3	124	7	10>	.33	.16	53	1>	.03	15	8	.019	3.1	14	.15	1.2	2>	18
470	LGk42	1>	1>	40	1>	100	4	10>	.14	.06	5>	1>	.01	10	3	.022	.2>	9	.11	1.6	2>	9
471	LGk43	12	1>	78	3	109	7	10>	.30	.14	5>	1>	.03	12	5	.022	1.6	13	.15	1.2	2>	16
472	LGk44	1>	1>	249	40	1341	9	10>	.05	1.52	5091	1>	.74	103	2>	.044	35.0	35	6.22	.2	2>	117
473	LGk45	1>	1>	12	35	1134	11	10>	.03	1.71	3737	1>	.85	94	2>	.034	16.0	37	2.61	.4	2	106
474	LGk46	1>	1>	218	25	606	8	11	.04	1.27	5205	1>	.72	40	2>	.044	31.2	37	5.88	.6	2>	109
475	LGk47	1>	1>	71	49	1114	46	10>	.11	2.83	1601	1>	.96	214	2>	.051	14.1	41	1.37	.4	2>	151
476	LGk48	1>	2	187	44	408	48	10>	.09	1.74	1591	1>	.80	137	2>	.035	13.4	39	1.39	.4	2>	116
477	LGk49	8	1>	157	4	88	10	10>	.52	.29	45	1	.07	27	8	.020	2.2	19	.24	1.4	2>	27
478	LGk50	4	1>	46	39	1204	15	10>	.26	2.24	654	1>	.39	377	2>	.032	9.1	25	.74	1.2	2>	84
479	LGm01	1>	1>	86	43	893	53	10>	.12	2.62	1384	1>	.95	196	2>	.045	12.3	41	1.25	.4	2>	147
480	LGm02	1>	1>	34	52	1983	12	10>	.04	2.98	3111	1>	.95	247	2>	.043	18.6	45	2.96	.4	2>	109
481	LGm03	3	1>	29	78	4061	27	22	.13	2.99	1256	1>	.62	548	2>	.032	24.5	29	1.83	.4	2>	122
482	LGm04	7	1>	10>	181	54658	14	10>	.01>	7.47	1342	1>	.01>	2156	2>	.028	316.4	1>	.04	.2>	2>	505
483	LGm05	1>	1>	10>	127	15592	16	10>	.01	10.83	1696	1>	.14	1539	2>	.031	45.7	6	1.43	.2	2>	240
484	LGm06	1>	1>	10>	131	10859	17	11	.02	11.73	1674	1>	.16	1551	2>	.031	29.3	7	1.14	.2	2>	212
485	LGm07	3	1>	10	321	24783	45	38	.01>	7.48	2844	1>	.06	3273	2>	.031	91.5	2	.17	.2>	2>	322
486	LGm08	4	1>	10>	152	22171	15	13	.01	10.47	1440	1>	.11	1852	2>	.031	76.0	5	.93	.2	2>	288
487	LGm09	1>	1>	18	73	4104	22	15	.12	8.03	1553	1>	.66	917	2>	.037	14.4	29	1.33	.4	2>	140
488	LGm10	1>	1>	10>	67	3007	16	10>	.02	4.56	3063	1>	.97	401	2>	.037	24.9	41	2.71	.2>	2>	120
489	LGm11	1>	1>	17	44	1167	9	11	.10	2.68	3168	1>	.61	155	2>	.037	13.4	37	2.58	.4	2>	105
490	LGm12	1>	1>	15	45	153	36	23	.08	1.35	1781	1>	1.21	41	2>	.038	7.9	46	1.91	.2	2>	133
491	LGm13	1>	1>	14	58	123	36	13	.13	1.85	1711	1>	1.17	37	2>	.041	10.3	55	1.30	.2>	2>	111
492	LGm14	1>	1>	15	45	405	17	19	.09	1.67	2732	1>	.97	85	2>	.039	15.6	45	4.30	.4	2>	86
493	LGm15	1>	1>	82	56	1260	25	19	.61	2.67	1770	1>	.59	322	2>	.045	12.3	49	2.78	1.2	2>	124
494	LGm16	1>	1>	11	52	441	1>	14	.05	1.14	4952	1>	.56	55	2>	.032	23.1	30	7.45	.2	2>	95
495	LGm17	11	1>	34	40	520	30	12	.22	2.77	1501	1>	.85	175	2>	.043	12.5	45	1.97	.6	2>	97
496	LGm18	2	1>	10>	53	1834	30	11	.04	2.70	1748	1>	1.10	255	2>	.036	13.8	38	1.38	.2	2>	98
497	LGm19	1>	1>	10>	60	764	11	11	.03	3.12	1911	1>	1.79	240	2>	.044	9.3	55	1.41	.2	2>	78
498	LGm20	1>	1>	10>	66	3041	23	10>	.03	5.99	1980	1>	1.14	632	2>	.039	10.6	36	1.81	.2>	2>	113
499	LGm21	1>	1>	10>	47	1942	21	10>	.05	2.41	2749	1>	.96	189	2>	.039	18.7	37	2.74	.4	2>	106
500	LGm22	7	1>	10>	99	5827	14	10>	.01	15.10	1490	1>	.35	1734	2>	.039	6.3	10	.71	.2>	2>	182

List of Geochemical Analysis(11)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
501	LGm23	1>	1>	10>	37	109	17	10>	.03	1.02	1645	1>	1.45	20	2>	.032	8.9	45	1.53	.2	2>	64
502	LGm24	1>	1>	28	46	809	27	10>	.21	2.84	2349	1>	.73	144	2>	.042	12.3	43	2.45	.4	2>	95
503	LGm25	1>	1>	10>	56	925	3	10>	.03	2.15	4021	1>	.75	79	2>	.035	24.4	31	6.07	.2	2>	102
504	LGm26	1>	1>	10>	31	57	39	10>	.03	.88	1440	1>	1.28	13	2>	.039	8.2	65	1.16	.2	2>	70
505	LGm27	1>	1>	10>	34	70	1>	10>	.05	1.49	3016	1>	1.66	11	2>	.035	21.3	59	5.12	.2	2>	56
506	LGm28	1>	1>	10>	46	242	6	10>	.05	2.22	2333	1>	1.83	45	2>	.037	20.5	59	3.76	.2>	2>	69
507	LGm29	1>	1>	10>	54	1214	13	10>	.05	5.21	2479	1>	1.24	199	2>	.052	14.1	46	3.37	.2	2>	104
508	LGm30	1>	1>	10>	51	485	18	10>	.05	2.79	2659	1>	1.09	66	2>	.041	22.0	40	4.64	.2	4	94
509	LGm31	1>	1>	10>	69	342	5	10>	.03	2.53	4253	1>	.50	44	2>	.035	35.2	25	12.45	.2	2>	131
510	LGm32	1>	1>	10>	68	391	20	10>	.02	1.66	3269	1>	.57	65	2>	.030	33.1	31	11.64	.2	2>	105
511	LGm33	1>	1>	67	43	327	39	10>	.49	1.90	1040	1>	.83	141	2>	.035	8.6	51	.81	.8	2>	80
512	LGm34	1>	1>	89	33	292	37	10>	.76	2.12	994	1>	.83	196	2>	.034	6.9	56	.62	1.0	2>	68
513	LGm35	3	1>	97	23	134	16	10	.69	.61	467	1>	.35	31	2>	.028	4.6	37	.35	1.4	2>	53
514	LGm36	9	1>	163	21	134	28	13	1.25	1.13	790	1>	.36	46	4	.053	3.2	39	.38	1.6	2>	64
515	LGm37	1>	1>	101	32	828	42	11	.91	1.34	1639	1>	.57	165	2>	.038	9.5	49	1.42	1.4	2>	79
516	LGm38	1>	1>	34	50	389	41	14	.39	2.45	1489	1>	.78	83	2>	.048	6.0	57	1.12	.6	2>	106
517	LGm39	1>	1>	91	29	229	41	10>	.82	1.60	1078	1>	.94	93	2>	.034	7.8	69	.74	1.2	2>	69
518	LGm40	1>	1>	15	64	1801	33	10>	.24	10.52	1276	1>	.71	897	2>	.050	3.8	49	.59	.2	2>	139
519	LGm41	2	1>	96	18	306	24	10>	.59	1.13	498	1>	.52	98	3	.030	7.2	31	.35	1.2	2>	52
520	LGm42	1>	1>	19	36	585	32	12	.11	1.95	1370	1>	.78	92	2>	.038	9.4	34	1.77	.4	2>	96
521	LGm43	1>	1>	23	40	604	35	10	.14	2.01	1317	1>	.70	110	2>	.039	12.7	33	1.82	.6	3	93
522	LGm44	1	1>	16	41	62	36	15	.06	1.12	1424	1>	1.30	25	2>	.027	7.5	44	1.09	.4	2>	89
523	LGm45	1>	1>	10>	32	92	31	11	.04	1.50	1100	1>	1.62	24	2>	.042	7.6	56	1.26	.2	2>	121
524	LGm46	1>	1>	73	19	176	16	21	.44	.94	462	1>	.52	32	2>	.039	5.5	38	.53	1.2	2>	56
525	LGm47	3	1>	49	49	2001	19	12	.37	4.23	743	1>	.42	433	2>	.042	14.7	34	.54	.6	2>	104
526	LGm48	1>	1>	26	36	800	19	10>	.17	1.77	2799	1>	.51	99	2>	.045	13.8	33	4.03	.4	2>	92
527	LGm49	1>	1>	10>	48	825	23	14	.02	2.49	2898	1>	.91	160	2>	.041	16.7	39	3.93	.2	2>	83
528	LGm50	1>	1>	23	34	276	21	23	.04	.44	5872	1>	.56	33	2>	.028	26.4	24	14.04	.2	2>	92
529	LGn01	1>	1>	10	37	570	20	10>	.05	1.92	2264	1>	.76	91	2>	.039	16.3	36	3.83	.4	2	62
530	LGn02	1>	1>	10>	35	567	1>	10	.01	.91	5273	1>	.37	53	2>	.026	23.9	20	12.04	.2	2>	74
531	LGn03	1>	1>	10>	29	381	11	18	.01	.68	2920	1>	.84	42	2>	.029	15.3	33	5.72	.2	2>	56
532	LGn04	1>	1>	10>	44	549	4	17	.01	.40	4551	1>	.24	54	2>	.022	19.8	12	11.65	.2	2>	65
533	LGn05	1>	1>	10>	33	277	1>	18	.01	.46	3289	1>	.46	32	2>	.025	20.5	20	6.72	.2	2>	45
534	LGn06	1>	1>	12	41	379	24	13	.06	1.25	2013	1>	1.97	63	2>	.035	7.7	57	3.02	.2	2>	57
535	LGn07	1>	1>	10>	43	354	38	24	.04	1.77	1878	1>	1.47	83	2>	.038	7.5	53	2.82	.2>	2>	76
536	LGn08	1>	1>	12	26	177	30	25	.04	.85	2458	1>	1.19	34	2>	.040	14.5	36	3.88	.4	2>	91
537	LGn09	1>	1>	10>	28	73	3	12	.03	1.43	1442	1>	2.89	23	2>	.046	9.9	93	2.59	.2	2>	36
538	LGn10	1>	1>	11	35	314	37	10>	.04	2.71	1562	1>	2.23	82	2>	.047	9.0	77	1.36	.2>	2	51
539	LGn11	1>	1>	10>	33	96	20	10>	.02	1.08	1468	1>	1.96	20	2>	.040	10.7	68	2.11	.4	2>	33
540	LGn12	1>	1>	14	59	335	37	33	.16	1.28	1413	1>	.45	63	2>	.046	9.4	48	1.36	.4	2>	93
541	LGn13	1>	1>	13	66	295	40	39	.09	1.05	1311	1>	.46	65	2>	.037	7.1	43	1.05	.4	2>	99
542	LGn14	1>	1>	38	37	193	32	14	.44	1.55	1169	1>	.80	58	2>	.040	5.5	61	.97	.4	2>	93
543	LGn15	1>	1>	45	24	339	16	19	.28	.97	985	1>	.39	30	2>	.032	7.9	41	1.23	.8	2>	67
544	LGn16	1>	1>	18	42	162	28	10>	.13	1.55	1280	1>	2.54	41	27	.039	15.1	81	1.28	.2>	2>	86
545	LGn17	1>	1>	40	29	159	23	17	.33	1.50	1076	1>	.56	35	2>	.041	7.3	55	1.00	.4	2>	93
546	LGn18	1>	1>	19	56	151	24	17	.19	1.11	1400	1>	1.19	32	2>	.034	7.7	46	1.03	.4	2>	73
547	LGn19	1>	1>	29	37	211	30	10>	.19	2.27	1089	1>	1.93	51	2>	.049	9.1	74	1.18	.2	2>	92
548	LGn20	1>	1>	10>	37	419	24	10	.07	2.02	1573	1>	1.86	53	2>	.040	6.5	60	1.88	.2	2>	118
549	LHj01	1	1>	158	13	134	24	17	.57	.39	407	1>	.15	25	15	.091	3.6	28	.18	1.6	2	80
550	LHj02	1>	1>	36	17	1148	5	10>	.05	.26	254	1>	.01	80	2>	.020	3.0	7	.08	.6	2>	20

List of Geochemical Analysis(12)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
551	LHj03	11	1>	35	25	2245	7	10>	.09	1.08	300	1>	.04	275	8	.022	10.0	8	.11	.6	2>	42
552	LHj04	3	1>	77	34	4008	17	10>	.30	.97	675	1	.06	263	10	.033	17.2	19	.16	1.0	2>	62
553	LHj05	1>	1>	10>	139	28534	6	10>	.01>	15.03	1260	1>	.01	1707	2>	.024	124.0	1>	.04	.2>	2>	309
554	LHj06	1>	1>	10>	134	14219	8	10>	.01>	12.38	1349	1>	.11	1649	2>	.031	46.0	5	.08	.2	2>	229
555	LHj07	9	1>	10>	154	20754	18	10>	.01>	15.16	1613	1>	.05	2277	2	.031	68.7	2	.07	.2	2>	261
556	LHj08	1>	1>	10>	123	43670	11	10>	.01	8.76	1157	2	.06	1045	2>	.033	266.9	3	.17	.2	2>	468
557	LHj09	1>	1>	10>	108	25242	8	10>	.01>	12.69	1160	1>	.05	1332	2>	.032	109.9	2	.11	.2	2>	287
558	LHj10	1>	1>	58	43	4476	12	10>	.25	2.16	659	1>	.05	405	4	.023	21.4	12	.16	1.0	2>	96
559	LHk01	12	1>	63	4	185	11	10>	.42	.31	5>	2	.03	38	3	.022	5.2	12	.21	1.4	2>	22
560	LHk02	23	2	48	132	8618	55	50	.36	1.13	461	1>	.10	1341	2>	.027	36.0	12	.28	1.0	2>	131
561	LHk03	1>	1>	10>	156	15586	19	13	.06	14.63	1401	1>	.06	1969	2>	.031	46.3	4	.11	.2	2>	241
562	LHk04	1>	1>	10>	179	25086	12	10>	.01>	13.52	1730	1>	.01	2433	2>	.026	99.3	1>	.04	.2	2>	291
563	LHk05	1>	1>	10>	142	11145	12	10>	.01>	15.15	1499	1>	.08	1589	2>	.035	29.2	2	.12	.2>	2>	222
564	LHk06	13	1>	10>	124	12271	10	10>	.01>	15.94	1356	1>	.05	1787	2>	.033	27.2	1	.10	.2	2>	222
565	LHk07	1>	1>	10>	140	13922	13	10>	.01>	15.46	1468	1>	.04	2099	2>	.032	32.1	1	.08	.2	2>	236
566	LHk08	1>	1>	10>	238	22037	24	20	.01>	12.74	2331	1>	.03	2514	2>	.032	84.7	1>	.08	.4	2>	253
567	LHk09	1>	1>	10>	222	16174	24	25	.01>	12.18	2610	1>	.04	2330	2>	.033	44.4	1>	.08	.4	2>	212
568	LHk10	12	1>	10>	181	16227	24	13	.03	11.37	1218	1>	.16	2295	2>	.037	50.5	9	.14	.2>	2>	249
569	LHk11	1>	1>	36	125	10218	39	10	.51	5.68	1319	1>	.56	1231	2>	.040	41.1	56	.38	.4	2>	199
570	LHk12	11	1>	13	282	23641	36	20	.08	8.26	1484	1>	.10	2803	2>	.030	107.6	6	.16	.2	2>	328
571	LHk13	18	1>	18	139	9966	29	23	.20	11.76	1646	1>	.11	1843	2>	.040	37.5	8	.24	.6	2>	208
572	LHk14	1>	1>	29	127	10281	21	10>	.16	9.48	1741	1>	.10	1333	2>	.036	40.7	9	.21	.6	3	197
573	LHk15	12	1>	12	196	8497	27	15	.06	12.57	2096	1>	.13	2217	2>	.038	24.2	5	.19	.2	2>	197
574	LHk16	1>	1>	10>	129	12760	13	10>	.01>	15.09	1563	1>	.10	1873	2>	.040	31.0	3	.14	.2>	2>	233
575	LHk17	1>	1>	10>	140	16469	28	10>	.02	9.95	1452	1>	.09	1579	2>	.051	54.7	5	.18	.2	2>	264
576	LHk18	1>	1>	10>	137	18269	19	10>	.01	8.04	2660	1>	.11	1466	2>	.051	62.9	5	.22	.4	2>	354
577	LHk19	4	1>	13	208	22048	42	17	.05	7.12	1764	1>	.05	1648	2>	.048	99.6	6	.17	.8	2>	298
578	LHk20	1>	1>	10>	163	45921	11	10>	.01>	10.93	1638	1>	.05	1732	2>	.032	254.9	2	.14	.2	2>	366
579	LHk21	1>	1>	10>	177	31064	12	10>	.01>	11.75	1684	1>	.04	1851	2>	.033	147.3	1	.12	.2>	2>	367
580	LHk22	3	1>	10>	117	14189	8	10>	.01>	15.09	1280	1>	.07	1512	2>	.038	38.5	2	.11	.2>	2>	252
581	LHk23	1>	1>	10>	190	23498	21	19	.01>	11.70	1980	1>	.04	2328	2>	.037	86.7	1>	.12	.2>	2>	293
582	LHk24	1>	1>	10>	198	26237	17	12	.01>	11.85	1811	1>	.03	1810	2>	.031	113.1	1>	.07	.2	2>	293
583	LHk25	1>	1>	10>	118	11824	10	10>	.01>	14.22	1484	1>	.09	1539	2>	.059	31.6	1	.13	.2	2>	216
584	LHk26	1>	1>	10>	154	24146	17	10>	.01>	11.25	1764	1>	.08	1753	2>	.036	97.5	2	.16	.2>	2>	315
585	LHk27	1	1>	10>	150	11852	12	10>	.01>	15.17	1668	1>	.13	1829	2>	.041	35.1	4	.16	.2	2>	233
586	LHk28	1>	1>	10>	135	19427	13	10>	.01>	13.63	1653	1>	.10	1601	2>	.038	55.0	2	.17	.2>	2>	264
587	LHk29	1>	1>	10>	142	20431	10	10>	.01>	14.23	1482	1>	.12	1539	2>	.039	66.8	4	.18	.4	2>	305
588	LHk30	1>	1>	10>	134	14514	11	10>	.01>	14.26	1600	1>	.14	1665	2>	.041	42.7	4	.17	.2>	2>	255
589	LHk31	1>	1>	10	250	51936	25	17	.03	6.53	2324	1>	.07	1860	2>	.030	317.9	4	.43	.4	2>	535
590	LHk32	1>	1>	10>	141	31926	12	10>	.02	9.90	1606	1>	.14	1342	2>	.039	151.0	5	.51	.6	2>	352
591	LHk33	1>	1>	10>	122	7818	11	10>	.01>	18.51	1454	1>	.07	2002	2>	.035	5.5	3	.10	.2>	2>	212
592	LHk34	1>	1>	10>	122	20674	13	10>	.01>	12.79	1376	1>	.09	1440	2>	.036	72.0	3	.13	.2	2>	278
593	LHk35	3	1>	10>	111	12264	9	10>	.01>	17.54	1235	1>	.09	1818	2>	.035	29.4	3	.11	.2>	2>	237
594	LHk36	1>	1>	10>	126	15860	9	10>	.01>	17.48	1312	1>	.04	1765	2>	.030	31.0	2	.09	.2	2>	250
595	LHk37	7	1>	10>	299	27530	27	15	.01>	12.34	2541	1>	.02	3455	4	.035	117.9	2	.09	.2	2>	302
596	LHk38	11	1>	17	300	30070	40	34	.11	7.60	2467	1>	.07	3265	2>	.036	151.3	9	.12	.2	2>	290
597	LHk39	24	1>	10>	269	44751	14	10>	.01>	8.33	2686	1>	.01>	3179	2>	.027	254.9	1>	.02	.2	2>	335
598	LHk40	15	1>	10>	306	25064	19	10>	.01>	10.01	3099	1>	.01	3007	2>	.030	109.5	1>	.03	.2>	2>	269
599	LHk41	1>	1>	10>	110	5201	10	10>	.01>	18.59	1358	1>	.09	1857	2>	.038	.2>	4	.11	.2>	2>	185
600	LHk42	17	1>	10>	139	6596	16	10>	.01>	15.33	1749	1>	.10	1807	2>	.043	10.5	3	.19	.2>	2>	173

List of Geochemical Analysis(13)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
601	LHk43	1>	1>	11	244	23921	31	56	.03	8.81	2918	1>	.07	2169	2>	.032	102.2	3	.36	.4	2>	293
602	LHk44	1	1>	10>	138	6723	18	16	.01>	14.75	1776	1>	.15	1950	2>	.040	12.3	5	.20	.2>	2>	192
603	LHk45	14	1>	10>	133	10207	14	15	.01>	15.45	1799	1>	.08	1541	2>	.038	27.8	3	.17	.2>	2>	227
604	LHk46	4	1>	10>	138	8127	14	16	.01>	15.67	1672	1>	.09	1636	2>	.045	17.2	3	.16	.2	2>	210
605	LHk47	1>	1>	10>	197	24716	22	23	.01>	13.28	2309	1>	.07	1933	3	.038	96.0	2	.20	.2	2>	293
606	LHk48	1>	1>	10>	131	12061	12	16	.01>	14.54	1536	1>	.08	1261	2>	.037	38.8	2	.18	.2	2>	234
607	LHk49	1>	1>	10>	120	8417	12	13	.01>	16.13	1569	1>	.11	1666	2>	.039	23.1	4	.16	.2	2>	224
608	LHk50	31	1>	10>	223	28670	28	20	.01>	10.91	1544	1>	.07	2823	2>	.043	143.1	2	.36	.2	2>	337
609	LHk51	1>	1>	124	178	6491	114	83	.79	1.26	13316	6	.17	1124	16	.026	34.8	48	.47	.2	2>	141
610	LHm01	1>	1>	11	91	4722	16	19	.06	10.37	2170	1>	.63	947	2>	.043	32.7	27	2.41	.2>	2>	161
611	LHm02	1>	1>	10>	91	3766	13	16	.03	9.90	2503	1>	.48	858	2>	.045	37.4	22	3.34	.2>	2>	153
612	LHm03	1>	1>	10>	89	4851	9	10>	.02	11.75	1814	1>	.62	1024	2>	.045	29.1	26	1.93	.2>	2>	174
613	LHm04	1>	1>	10>	105	3824	17	12	.02	13.02	1728	1>	.61	1518	2>	.044	11.5	22	.85	.2>	2>	180
614	LHm05	1>	1>	10>	64	1195	18	27	.12	4.46	3194	1>	.56	173	2>	.050	47.6	36	4.34	.2>	2>	99
615	LHm06	1>	1>	10>	165	19377	26	33	.02	5.04	2825	1>	.30	1202	2>	.040	98.2	19	3.64	.2>	2>	212
616	LHm07	1>	1>	10>	139	17000	20	23	.02	4.54	2962	1>	.27	867	2>	.039	97.5	17	4.43	.2>	2>	190
617	LHm08	1>	1>	10>	107	9644	22	24	.03	5.28	2625	1>	.43	698	2>	.046	67.6	24	4.08	.2>	2>	159
618	LHm09	1>	1>	10>	238	10397	29	49	.01>	13.74	2739	1>	.04	2921	2>	.034	37.8	2	.16	.2>	2>	224
619	LHm10	1>	1>	10>	159	11955	16	31	.01>	15.34	1875	1>	.05	2125	2>	.033	37.7	2	.14	.2>	2>	239
620	LHm11	6	1>	10>	160	9717	13	10>	.01>	18.85	1785	1>	.04	2240	2>	.028	21.8	2	.10	.2>	2>	257
621	LHm12	1>	1>	10>	132	7785	12	10>	.01>	16.95	1653	1>	.09	1831	2>	.034	18.0	3	.13	.2>	2>	235
622	LHm13	1>	1>	10>	125	5838	14	10>	.01>	17.48	1623	1>	.10	1965	2>	.037	4.6	4	.14	.2>	2>	220
623	LHm14	1>	1>	10>	161	7819	19	10>	.01>	14.84	2104	1>	.08	2127	2>	.037	20.5	3	.16	.2>	2>	213
624	LHm15	1>	1>	10>	225	29731	14	21	.01>	14.15	2099	1>	.04	2460	2>	.029	145.1	1>	.09	.2>	2>	353
625	LHm16	10	1>	10>	208	12106	21	25	.01>	16.50	2021	1>	.05	2877	2>	.030	34.0	2	.08	.2>	2>	256
626	LHm17	28	1>	10>	142	9151	12	12	.01>	16.86	1628	1>	.06	2222	2>	.032	20.4	2	.09	.2>	2>	233
627	LHm18	15	1>	10>	187	8678	16	16	.01>	17.50	1977	1>	.06	2854	2>	.031	20.7	3	.08	.2>	2>	243
628	LHm19	1>	1>	10>	167	9481	17	17	.01>	15.37	2025	1>	.08	2299	2>	.036	26.6	3	.14	.2>	2>	237
629	LHm20	6	1>	10>	142	6488	14	14	.01>	17.25	1557	1>	.11	2127	2>	.035	13.6	4	.17	.2>	2>	227
630	LHm21	9	1>	66	109	18183	16	23	.38	3.86	815	1>	.12	1346	2>	.028	90.9	15	.20	.8	2>	213
631	LHm22	1>	1>	10>	130	10264	11	15	.01	15.32	1729	1>	.11	1519	2>	.036	30.7	3	.15	.2	2>	240
632	LHm23	7	1>	10>	160	11402	13	11	.01>	18.04	1709	1>	.04	2260	2>	.033	25.5	1	.09	.2>	2>	258
633	LHm24	1>	1>	10>	134	13961	11	10>	.01>	16.94	1612	1>	.07	1746	2>	.035	44.6	2	.12	.2>	2>	269
634	LHm25	1>	1>	10>	135	14161	10	10>	.01>	17.45	1454	1>	.06	1950	2>	.034	38.3	2	.10	.2	2>	270
635	LHm26	1	1>	10>	155	13829	16	10>	.01	13.96	1710	1>	.11	1923	2>	.030	49.7	4	.45	.2	2>	257
636	LHm27	1>	1>	10>	279	49198	33	49	.01>	7.26	1952	2	.01	2037	2>	.024	330.6	1>	.11	.2>	2>	491
637	LHm28	1>	1>	10>	116	12729	9	10>	.01>	17.14	1322	1>	.08	1795	2>	.033	34.9	2	.10	.4	2>	265
638	LHm29	14	1>	10>	213	20313	28	18	.01>	10.88	2241	1>	.08	2296	2>	.034	83.0	3	.17	.2>	2>	325
639	LHm30	31	1>	10>	224	16323	28	20	.01>	12.11	2251	1>	.07	2730	2>	.036	61.5	2	.16	.2	2>	271
640	LHm31	19	1>	10>	549	31608	40	84	.01>	4.18	5694	1>	.02	5087	2>	.029	182.0	2	.10	.2	2>	326
641	LHm32	1>	1>	10>	130	8038	13	12	.01>	17.09	1545	1>	.10	1964	2>	.039	19.9	5	.12	.2>	2>	226
642	LHm33	1>	1>	10>	112	9188	10	21	.01>	17.94	1392	1>	.09	1850	2>	.035	15.8	3	.13	.2>	2>	243
643	LHm34	1>	1>	10>	352	61574	25	72	.01>	6.84	3214	1>	.05	2941	2>	.025	423.9	3	1.27	.2	2>	428
644	LHm35	1>	1>	18	174	9620	49	79	.03	4.51	1960	1>	.35	1443	2>	.030	60.8	10	.99	.2	2>	170
645	LHm36	2	1>	22	310	47499	26	52	.06	3.54	2114	1>	.02	2547	2>	.025	324.8	4	.13	.4	2>	342
646	LHm37	1>	1>	10>	235	25137	19	53	.01	12.86	1989	1>	.04	2804	2>	.029	121.5	3	.09	.2	2>	299
647	LHm38	1>	1>	10>	119	17897	10	21	.02	4.34	4509	1>	.11	821	2>	.025	131.0	6	13.29	.2>	2>	230
648	LHm39	1>	1>	10>	124	17880	21	28	.02	8.38	2384	1>	.34	1204	2>	.043	82.3	16	2.86	.2>	2>	233
649	LHm40	12	1	11	204	9552	40	53	.02	7.44	2523	1>	.32	2036	2>	.038	57.2	8	1.57	.2	2>	201
650	LHm41	1>	1>	10>	162	8208	22	40	.01>	13.30	2152	1>	.13	2025	2>	.041	31.5	6	.83	.2	2>	211

List of Geochemical Analysis(14)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
651	LHm42	1>	1>	60	102	5790	12	25	.03	5.70	3398	1>	.48	661	17	.039	39.0	31	6.14	.4	2>	145
652	LHm43	1>	1>	12	147	6871	20	32	.04	5.04	3557	1>	.51	828	2>	.036	43.8	28	5.94	.2	2>	148
653	LHm44	1>	1>	10>	67	3212	7	24	.03	2.77	4995	1>	.64	250	2>	.033	49.1	44	8.58	.2>	2>	137
654	LHm45	1>	1>	10>	108	5691	20	30	.03	4.55	3147	1>	.73	657	2>	.039	45.8	48	6.04	.2>	2>	135
655	LHm46	1>	1>	11	155	4880	39	33	.04	6.89	2018	1>	.67	1213	2>	.040	27.0	25	1.55	.2>	2>	133
656	LHm47	1>	1>	21	86	2892	15	21	.09	6.76	2443	1>	.55	616	2>	.045	29.6	27	4.26	.2	2>	118
657	LHm48	1>	1>	10>	124	6105	18	35	.02	3.04	4533	1>	.33	681	2>	.027	47.6	22	9.68	.2	2>	141
658	LHm49	1>	1>	10>	109	3443	34	38	.02	5.11	3394	1>	.46	631	2>	.056	24.3	42	2.66	.2	2>	139
659	LHm50	1>	1>	10>	87	6410	26	29	.03	3.40	4256	1>	.48	403	2>	.036	51.0	33	9.48	.2	2>	140
660	LJg01	1>	14	126	10	109	72	116	.59	.63	122	2	.15	64	8	.030	4.5	27	.19	1.2	2>	30
661	LJg02	5	76	114	5	81	55	128	.49	.52	31	1>	.12	46	2>	.037	4.7	24	.16	1.2	2>	26
662	LJg03	1>	30	145	10	122	117	234	.73	.91	45	2	.20	83	10	.023	6.2	31	.21	1.6	2>	41
663	LJg04	1>	8	126	7	115	72	175	.62	.69	56	2	.15	62	5	.040	4.0	27	.20	1.8	2>	32
664	LJg05	5	11	155	8	137	54	126	.69	.81	97	1	.29	90	8	.027	5.6	38	.20	1.6	2>	33
665	LJg06	8	7	118	4	204	65	190	.50	.53	87	1	.14	54	4	.034	1.9	25	.16	1.4	2>	26
666	LJg07	1>	6	146	6	184	35	81	.59	.61	179	1>	.32	71	2>	.025	5.0	38	.19	1.6	2>	27
667	LJg08	14	27	158	20	243	212	314	.93	1.77	356	3	.26	182	16	.036	6.6	34	.28	2.2	2>	60
668	LJg09	1>	18	126	10	193	87	132	.60	.68	86	2	.15	69	7	.033	1.9	26	.17	1.2	2>	32
669	LJg10	6	8	126	2	151	57	146	.56	.69	95	1	.17	64	3	.027	3.3	29	.17	1.6	2>	30
670	LJg11	1>	4	128	9	105	70	81	.56	.58	89	1>	.14	59	6	.031	2.7	26	.17	1.4	2>	30
671	LJg12	4	5	135	7	88	59	75	.61	.59	44	1>	.16	52	3	.038	5.6	28	.17	1.4	2>	32
672	LJg13	7	4	124	5	130	51	74	.56	.54	42	1>	.14	56	5	.035	5.5	27	.17	1.4	2>	28
673	LJg14	1>	2	133	4	222	58	106	.57	.59	58	1>	.16	54	2>	.029	3.1	28	.17	1.6	2>	29
674	LJg15	1>	1>	58	1	177	6	16	.20	.09	5>	1>	.01	9	4	.018	3.0	12	.15	1.4	2>	11
675	LJg16	6	12	143	7	237	32	95	.62	.77	98	2	.27	79	5	.023	1.7	37	.17	1.8	2>	30
676	LJg17	6	8	129	8	174	98	169	.60	.76	172	2	.15	80	9	.038	3.4	27	.18	1.4	2>	36
677	LJg18	1>	21	120	8	253	121	378	.63	.89	141	3	.17	84	14	.042	3.6	27	.24	2.0	2>	36
678	LJg19	1>	1>	169	4	91	7	19	.55	.12	5>	1>	.11	9	2>	.020	1.7	29	.15	1.2	2>	14
679	LJg20	4	1>	141	3	118	6	10>	.45	.10	5>	1>	.09	8	2	.020	2.7	26	.14	1.2	2>	13
680	LJg21	4	1>	118	5	192	5	15	.32	.05	6	1>	.06	7	2>	.019	.2>	21	.11	1.6	2>	8
681	LJg22	5	1>	114	2	72	6	14	.29	.04	5>	1	.06	18	2>	.020	.6	19	.11	1.0	2>	11
682	LJh01	1>	1>	62	1>	107	6	10>	.20	.06	5>	1>	.01	20	2>	.020	2.3	15	.18	1.4	2>	10
683	LJh02	1>	1>	57	2	63	6	10>	.19	.07	5>	1>	.01	10	4	.021	3.0	14	.13	1.4	2>	11
684	LJh03	3	1>	149	1>	87	6	10>	.47	.10	5>	1	.09	13	3	.019	1.1	25	.12	.8	2>	13
685	LJh04	5	1>	65	1	117	6	10>	.21	.06	5>	1	.02	17	6	.022	2.5	14	.13	1.4	2>	9
686	LJh05	6	1>	102	1>	76	4	10>	.28	.05	59	1>	.04	11	2>	.019	.5	18	.09	.8	2>	9
687	LJh06	3	1>	111	1>	91	5	10>	.34	.06	5>	1>	.04	16	2>	.021	2.9	19	.11	1.2	2>	10
688	LJh07	6	1>	100	1>	88	4	10>	.28	.05	24	1>	.04	13	4	.020	1.5	18	.13	1.2	2>	9
689	LJh08	1>	1>	129	2	86	5	10>	.41	.07	5>	1>	.05	17	7	.021	2.4	21	.14	1.2	2>	11
690	LJh09	1>	1>	70	1>	86	5	10>	.21	.04	5>	1>	.02	11	5	.018	.2	15	.14	1.4	2>	8
691	LJh10	1>	1>	59	1>	85	5	10>	.18	.05	5>	1>	.01	10	2>	.020	2.0	14	.15	1.4	2>	10
692	LJh11	3	1>	57	3	165	11	10>	.14	.03	16	1>	.01	24	3	.019	1.9	14	.17	1.6	2>	8
693	LJh12	3	1>	80	1	123	5	10>	.24	.05	13	1>	.03	14	2>	.019	.4	17	.18	1.8	2>	9
694	LJh13	1>	1>	59	3	93	4	10>	.16	.03	5>	1>	.01	13	2>	.019	1.2	12	.14	1.4	2>	6
695	LJh14	2	1>	63	1	82	4	10>	.19	.04	5>	1>	.01	14	5	.019	.4	13	.13	1.0	2>	7
696	LJh15	1>	1>	89	2	98	6	10>	.26	.04	5>	1>	.03	12	2>	.019	1.9	16	.12	1.0	2>	8
697	LJh16	1>	1>	56	2	150	11	10>	.16	.03	9	1>	.01	50	5	.024	1.8	13	.18	2.8	2>	10
698	LJh17	1>	1>	59	1	138	8	10>	.16	.04	5>	1>	.01	25	7	.021	2.3	12	.12	1.2	2>	7
699	LJh18	1>	1>	46	1>	110	5	10>	.12	.02	5>	1>	.01	22	2	.018	2.4	11	.11	1.4	2>	7
700	LJh19	1>	1>	52	2	138	6	10>	.14	.03	5>	1>	.01	22	3	.019	2.7	13	.16	1.6	2>	8

List of Geochemical Analysis(15)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
701	LJh20	1>	1>	112	2	70	5	10>	.41	.09	5>	1>	.07	11	5	.022	1.4	19	.15	1.4	2>	13
702	LJh21	1>	1>	103	1>	71	5	10>	.39	.09	5>	1	.06	14	2>	.021	1.7	20	.15	1.6	2>	12
703	LJh22	1>	1>	57	1>	59	4	10>	.17	.04	5>	1>	.01	12	3	.019	2.9	11	.12	1.2	2>	9
704	LJh23	1	1>	87	1>	107	5	10>	.27	.06	5>	1>	.04	26	5	.020	2.8	16	.11	1.4	2>	10
705	LJh24	4	1>	107	1>	88	14	10>	.32	.06	5>	1>	.04	20	2>	.022	2.0	18	.12	1.2	2>	10
706	LJh25	2	1>	103	3	127	6	10>	.28	.05	5>	1>	.04	30	3	.019	.3	18	.10	1.0	2>	9
707	LJj01	1>	1>	22	1>	140	3	10>	.05	.01>	5>	1>	.01>	30	2>	.019	.2>	6	.07	1.0	2>	3
708	LJj02	1>	1>	52	7	120	5	10>	.15	.09	183	1>	.04	31	2>	.019	1.8	12	.11	1.2	2>	10
709	LJj03	5	1>	46	4	82	6	10>	.17	.19	24	1>	.02	27	2>	.019	3.7	12	.12	1.2	2>	11
710	LJj04	1>	1>	42	5	216	6	10>	.20	.37	56	1>	.01	48	2>	.019	3.2	12	.12	1.0	2>	16
711	LJj05	1>	1>	56	16	217	15	10>	.19	.20	488	1>	.08	82	4	.020	2.8	15	.20	1.8	2>	18
712	LJj06	5	1>	38	1	109	5	10>	.13	.05	5>	1>	.02	23	3	.020	1.8	10	.12	1.0	2>	8
713	LJj07	1>	1>	34	1>	94	4	10>	.11	.04	5>	1>	.01	24	2>	.018	2.8	9	.10	1.2	2>	6
714	LJj08	1>	1>	36	1>	102	4	10>	.09	.03	11	1>	.01	16	2>	.021	1.5	9	.11	1.2	2>	7
715	LJj09	4	1>	28	2	161	4	10>	.09	.12	5	1>	.01>	32	2>	.019	3.1	8	.09	.8	2>	6
716	LJj10	1>	1>	36	44	1499	9	10>	.17	2.98	503	1>	.09	523	2	.025	9.1	11	.11	.6	2>	58
717	LJj11	7	1>	78	7	171	6	10>	.29	.17	162	1>	.06	52	3	.020	3.3	17	.15	1.6	2>	14
718	LJj12	5	1>	41	1>	123	5	10>	.12	.04	68	1>	.01>	22	2>	.019	.9	10	.10	1.4	2>	7
719	LJj13	6	1>	28	1>	103	4	10>	.08	.02	5>	1>	.01>	24	4	.019	.9	8	.11	1.0	2>	5
720	LJj14	1>	22	80	1>	102	4	10>	.27	.06	5>	1>	.04	35	2>	.020	4.0	15	.14	1.2	2>	10
721	LJj15	1>	1>	77	60	1276	78	23	.41	4.06	1601	1>	.61	425	2>	.028	12.7	28	.66	.6	2>	91
722	LJj16	1>	1>	40	38	3035	9	10>	.24	2.57	307	1>	.08	402	2>	.026	15.5	12	.13	1.0	2>	72
723	LJj17	1>	1>	38	27	1105	10	10>	.22	2.30	307	1>	.07	290	2>	.023	8.4	13	.15	1.0	2>	46
724	LJj18	1>	1>	10>	212	13645	18	32	.01>	12.61	2541	1>	.12	2305	2>	.032	31.8	4	.11	.2	2>	231
725	LJj19	13	1>	44	38	1756	14	10>	.20	1.85	484	1>	.08	361	2>	.023	11.3	13	.16	.2	2>	61
726	LJj20	1>	1>	10>	186	6284	22	29	.01	11.46	2214	1>	.14	1950	2>	.032	16.4	7	.13	.4	2>	171
727	LJj21	1>	1>	26	42	2612	8	11	.10	2.32	411	1>	.08	405	2>	.025	12.5	11	.12	.6	2>	71
728	LJj22	3	1>	61	1>	72	5	10>	.22	.08	5>	1>	.03	15	2>	.020	.2>	14	.12	1.0	2>	10
729	LJj23	1>	1>	72	1>	65	7	10>	.32	.13	5>	1>	.04	12	3	.023	1.3	16	.13	1.4	2>	14
730	LJj24	1>	1>	10>	186	7699	24	32	.01>	12.67	2334	1>	.19	2374	2>	.036	16.3	6	.13	.4	2>	196
731	LJj25	1>	1>	10>	146	10269	15	12	.01	9.35	1734	1>	.19	1658	2>	.029	27.4	7	.11	.2	2>	234
732	LJj26	1>	1>	10>	142	5773	19	13	.01>	14.82	1750	1>	.17	1907	2>	.030	4.1	6	.12	.2	2>	201
733	LJj27	1>	1>	10>	110	5706	15	10>	.01>	16.53	1237	1>	.14	1905	2>	.032	5.3	6	.10	.2	2>	191
734	LJj28	1>	1>	10	138	21708	17	10>	.01>	10.66	1572	1>	.13	1530	2	.029	72.7	4	.14	.2>	2>	295
735	LJj29	5	6	38	66	8281	11	10>	.23	8.21	1067	1>	.19	902	2>	.027	28.8	14	.17	.6	2>	196
736	LJj30	1>	1>	10>	112	5103	10	10>	.01>	17.89	1187	1>	.17	1878	2>	.025	.2>	7	.09	.2>	2>	206
737	LJj31	1>	1>	32	73	2530	12	10>	.16	5.02	786	1>	.12	791	2>	.019	12.1	11	.11	.6	2>	91
738	LJk01	1>	8	19	113	14395	15	10>	.10	10.18	1354	1>	.14	1424	2>	.024	41.8	8	.29	.4	2>	221
739	LJk02	1>	1>	16	149	11824	20	11	.09	10.96	1664	1>	.13	1727	2>	.027	29.3	7	.28	.2	2>	215
740	LJk03	1>	1>	10>	139	14342	18	10>	.01	11.96	1677	1>	.10	1546	2>	.026	39.6	3	.32	.4	2>	224
741	LJk04	1>	1>	21	156	20611	20	13	.10	9.26	1608	1>	.15	1612	2>	.033	65.2	8	.29	.6	2>	267
742	LJk05	1>	3	23	93	12911	12	11	.11	8.77	989	1>	.11	1165	2>	.033	48.6	9	.15	.4	2>	201
743	LJk06	1>	1>	27	94	7909	14	10>	.15	10.39	1052	1>	.14	1339	2>	.034	21.9	10	.14	.4	2>	170
744	LJk07	1>	1>	19	89	13909	10	10>	.08	10.62	890	1>	.11	1168	2>	.032	41.1	7	.14	.4	2>	229
745	LJk08	1>	1>	41	134	11231	26	16	.22	7.76	1770	1>	.20	1269	8	.034	44.1	19	.18	.8	2>	220
746	LJk09	1>	1>	114	75	5376	36	13	.89	5.00	1255	1>	.36	742	2>	.047	13.3	33	.28	1.2	2>	164
747	LJk10	1>	1>	37	157	8480	31	20	.16	8.74	1847	1>	.16	1527	2>	.032	33.9	20	.19	.8	2>	194
748	LJk11	1>	1>	97	42	1880	14	10>	.36	1.14	577	1	.06	368	8	.021	10.1	16	.16	1.2	2>	61
749	LJk12	1>	1>	34	85	12622	14	10>	.14	4.57	936	1>	.12	749	4	.026	54.8	15	.20	.8	2>	206
750	LJk13	1>	1>	36	80	9051	13	10>	.10	1.39	992	2	.02	535	9	.021	35.7	9	.19	1.2	2	148

List of Geochemical Analysis(16)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
751	LJk14	1>	1>	33	120	12848	15	22	.08	2.02	1268	1	.03	813	2>	.022	46.4	9	.17	.6	2>	202
752	LJk15	1>	1>	20	101	13163	10	19	.04	1.36	1009	1	.01	519	2>	.021	50.8	7	.18	.8	2>	219
753	LJk16	1>	1>	47	6	170	6	10>	.14	.14	10	2	.01	23	8	.022	1.0	9	.15	1.2	2>	13
754	LJk17	1>	2	62	10	399	9	46	.18	.26	182	2	.02	82	10	.021	5.4	17	.29	1.2	2>	24
755	LJk18	1>	1>	10>	70	5416	2	10>	.03	6.70	3364	1>	.40	543	2>	.037	46.9	22	4.32	.4	2>	149
756	LJk19	1>	1>	10>	68	4682	1	10>	.03	6.17	3798	1>	.36	483	2>	.033	49.0	21	5.42	.4	2>	138
757	LJk20	1>	1>	10>	153	8657	11	14	.01>	11.82	2175	1>	.18	1699	2>	.042	25.6	9	.18	.2>	2>	234
758	LJk21	1>	1>	10>	103	6962	13	10>	.01>	16.71	1278	1>	.16	1839	3	.039	7.6	6	.11	.2	2>	213
759	LJk22	1>	1>	27	110	12139	17	10>	.17	10.01	1113	1>	.16	1521	2>	.034	39.3	11	.23	.2	2>	219
760	LJk23	1>	1>	66	85	7955	19	10>	.27	9.55	1624	1>	.15	1089	5	.035	29.1	17	.21	.6	2>	191
761	LJk24	1>	1>	32	87	6331	14	10>	.17	11.73	1398	1>	.18	1424	2>	.036	13.9	13	.14	.4	2>	181
762	LJk25	1>	1>	30	123	7366	19	10>	.18	11.81	1501	1>	.14	1691	2>	.041	18.1	10	.15	.4	2>	198
763	LJk26	1>	1>	32	136	9783	17	10>	.13	6.93	1660	1>	.11	1212	2>	.032	38.0	10	.18	.8	3	211
764	LJk27	1>	1>	39	87	5307	14	10>	.30	12.42	1201	1>	.21	1273	2>	.045	16.9	14	.16	.6	2>	187
765	LJk28	1>	1>	10>	135	6429	16	10>	.05	15.70	1532	1>	.17	1986	2>	.042	9.4	8	.12	.2>	2>	208
766	LJk29	1>	1>	11	380	58220	35	32	.01	5.45	3215	1>	.01	3378	2>	.029	373.4	1	.13	.2	2>	478
767	LJk30	1>	1>	10>	345	75022	29	11	.01>	5.38	3016	2	.01>	2719	2>	.027	511.8	1>	.10	.4	2>	540
768	LJk31	2	1>	18	353	53479	36	46	.07	6.46	2500	1>	.04	3420	2>	.029	332.8	4	.15	.4	2>	470
769	LJk32	25	1>	98	418	22002	57	120	.47	3.12	3152	1>	.20	3572	6	.039	102.5	19	.28	1.0	2>	290
770	LJk33	12	1>	202	247	1846	40	487	1.20	.88	4408	2	.47	954	44	.026	15.2	44	.35	2.4	2>	107
771	LJk34	11	1>	10>	252	47530	23	34	.01>	9.60	2183	1>	.04	2472	2>	.037	280.2	1	.22	.2	2>	464
772	LJk35	1>	1>	10>	265	31452	22	15	.01>	11.29	2761	1>	.05	2935	2>	.036	150.4	2	.18	.2>	2>	360
773	LJk36	1>	1>	10>	173	36876	14	12	.01>	9.37	1988	1>	.03	1871	2>	.033	207.0	1	.18	.2>	2>	379
774	LJk37	1>	1>	23	240	15614	31	10>	.07	9.16	2529	1>	.20	2567	2>	.041	50.9	8	.33	.2	2>	282
775	LJk38	1>	1>	38	40	2954	9	10>	.24	3.19	665	1>	.14	426	2	.026	16.1	18	.15	1.0	2>	93
776	LJk39	9	1>	97	45	3045	9	10>	.43	3.14	556	1	.22	473	2>	.048	16.9	25	.14	1.0	2>	94
777	LJk40	1>	1>	31	40	7481	5	10>	.08	1.55	257	1>	.03	320	6	.022	28.0	9	.11	1.0	2>	132
778	LJk41	1>	1>	85	34	1388	9	10>	.27	1.85	729	1>	.12	284	3	.026	10.1	21	.15	.8	3	62
779	LJk42	1>	1>	67	17	842	10	10>	.20	.42	933	2	.11	96	12	.026	5.4	20	.17	1.4	2>	36
780	LJm01	5	1>	39	29	2359	8	10>	.16	3.01	876	1>	.10	261	7	.026	22.7	14	1.28	1.0	2>	66
781	LJm02	1>	1>	10>	75	2982	11	10>	.04	10.86	1905	1>	.65	869	2>	.039	11.0	27	2.10	.2>	2>	132
782	LJm03	1>	1>	10>	84	2892	17	10>	.05	11.24	2146	1>	.61	1028	2>	.039	8.1	28	1.60	.2>	2>	132
783	LJm04	1>	1>	26	66	1397	6	10>	.14	2.56	5360	1>	.29	141	2>	.033	51.6	26	13.00	.4	2>	92
784	LJm05	1>	1>	10>	64	1380	17	10>	.10	4.15	3948	1>	.53	160	2>	.044	45.1	31	10.09	.2>	2>	99
785	LJm06	1>	1>	10	146	9292	19	10>	.03	12.62	1705	1>	.11	1861	2>	.030	23.9	6	.57	.2>	2>	184
786	LJm07	13	7	10>	207	27351	125	24	.01>	2.52	971	1>	.09	2665	2>	.049	135.9	1	.30	.2>	2>	283
787	LJm08	15	6	13	273	32862	133	26	.02	3.22	2297	1>	.09	3098	2>	.029	159.5	2	.24	.2>	2>	315
788	LJm09	1>	1>	19	826	36488	29	44	.01>	3.66	6600	1>	.02	5345	2>	.029	181.1	2	.07	.2>	2>	332
789	LJm10	1>	1>	10>	435	51874	14	30	.01>	3.55	3660	1>	.01>	3189	558	.029	303.0	1>	.09	.2>	2>	390
790	LJm11	12	1>	11	540	51209	17	36	.01>	3.08	4360	1>	.01>	3583	2>	.024	290.3	1>	.09	.2>	2>	391
791	LJm12	4	1>	11	570	42917	27	40	.01>	5.36	5352	1>	.01>	5716	2>	.026	234.4	1>	.05	.2>	2>	376
792	LJm13	1>	1>	11	501	31646	28	34	.01>	.80	4000	1>	.01>	3707	2>	.023	169.4	1	.18	.2>	2>	259
793	LJm14	1>	1>	14	525	22581	74	33	.03	1.87	3814	1>	.52	3245	2>	.035	92.8	34	.24	.2>	2>	273
794	LJm15	1>	1>	13	325	14797	70	13	.04	2.02	2195	1>	1.11	1960	2>	.039	51.0	67	.38	.2>	2>	225
795	LJm16	1>	1>	134	11	263	18	83	.87	.57	146	1>	.28	86	7	.027	5.6	31	.28	1.8	2>	48
796	LJm17	2	1>	19	671	26443	44	70	.03	.95	3936	1>	.05	4222	2>	.032	113.5	3	.14	.2	2>	292
797	LJm18	1>	1>	10	637	27647	36	67	.01>	.82	3615	1>	.03	3743	2>	.026	127.0	1	.14	.2	2>	288
798	LJm19	7	1>	147	13	203	20	61	.94	.58	190	1>	.28	90	13	.027	.9	32	.28	2.2	2>	48
799	LJm20	1>	1>	10>	424	57131	36	24	.01>	2.25	3561	1>	.04	1924	2>	.027	333.7	4	1.47	.2>	2>	374
800	LJm21	1>	1>	10	387	37647	36	25	.02	3.96	3523	1>	.15	2248	2>	.036	192.1	10	1.44	.2>	2>	296

List of Geochemical Analysis(17)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
801	LJm22	1>	1>	10>	147	31203	20	14	.01	3.38	2543	1>	.12	1081	2>	.036	162.8	13	4.23	.2>	2>	261
802	LJm23	1>	1>	10>	356	65396	17	15	.01	3.07	3387	1>	.07	2149	2>	.027	386.6	6	1.06	.2>	2>	423
803	LJm24	1>	1>	10>	516	52449	23	44	.02	4.27	4045	1>	.10	3600	2>	.032	288.8	8	.58	.2>	2>	374
804	LJm25	1>	1>	10>	296	61454	21	21	.01>	3.99	2553	1>	.01>	1978	2>	.022	368.0	1>	.05	.2>	2>	415
805	LJm26	1>	1>	11	327	62279	18	22	.01>	4.07	2812	1>	.01>	2105	2>	.024	370.6	1>	.05	.2>	2>	413
806	LJm27	1>	1>	10>	258	53006	14	18	.01>	3.49	2268	1>	.01>	1834	2>	.024	308.1	1>	.08	.2>	2>	381
807	LJm28	1>	1>	11	355	53462	26	15	.01>	6.46	3139	1>	.01>	2461	2>	.026	305.5	1>	.09	.2>	2>	394
808	LJm29	1>	1>	10>	287	48386	11	30	.01>	2.06	2525	1>	.01>	2462	2>	.020	295.4	1	.06	.2>	2>	376
809	LJm30	1>	1>	10>	564	56504	22	61	.01>	2.36	4335	1>	.01>	3697	2>	.024	346.8	1>	.12	.2>	2>	412
810	LJm31	1>	2	70	125	3326	130	58	.42	1.97	7144	1	.63	670	12	.035	18.9	43	1.47	1.0	2>	113
811	LJm32	1>	1	10>	105	26535	149	17	.04	2.96	1861	1>	.32	649	2>	.031	128.2	30	1.64	.2	2>	311
812	LJm33	1>	1>	21	80	6020	85	45	.25	2.09	1518	1>	.46	394	4	.038	28.6	28	1.45	.2	2>	139
813	LJm34	2	1>	12	74	27030	64	25	.14	1.40	1517	1>	.18	330	2>	.027	130.9	21	1.48	.2>	2>	271
814	LJm35	1>	4	41	99	1512	294	42	.29	2.05	4679	1	.47	465	2>	.035	12.3	40	1.17	.4	2>	106
815	LJm36	1>	18	10	83	1023	198	38	.10	2.52	1953	1>	2.03	150	2>	.043	16.1	81	1.43	.4	2>	126
816	LJm37	1>	1>	14	116	9681	42	23	.09	4.19	2334	1>	.66	915	2>	.058	35.7	61	2.06	.2	2>	171
817	LJm38	1>	1>	10	108	13007	34	14	.06	3.65	2679	1>	.56	820	2>	.051	50.5	57	2.62	.2>	2>	194
818	LJm39	1>	1>	10>	182	35623	44	16	.01>	7.63	1758	1>	.01	1822	2>	.025	180.3	1>	.10	.2>	2>	316
819	LJm40	6	1	10>	196	23883	58	18	.01>	7.14	1952	1>	.01>	2121	2>	.026	101.2	1>	.10	.2>	2>	250
820	LJm41	1>	3	10>	242	38655	133	21	.01>	3.22	2496	1>	.02	1742	2>	.027	210.4	2	.57	.2>	2>	319
821	LJm42	24	79	10	566	13923	477	72	.01>	5.59	5353	1>	.01	6778	2>	.029	44.0	1>	.07	.2>	2>	248
822	LJm43	5	161	10>	279	27107	82	35	.01>	3.33	2716	1>	.01	2433	2>	.028	126.1	2	.42	.2>	2>	245
823	LJm44	1>	1>	10>	334	25948	40	30	.01>	2.51	2826	1>	.01>	2273	2>	.025	114.5	1>	.33	.2>	2>	247
824	LJm45	1>	21	10>	328	25581	86	24	.01>	2.22	2917	1>	.02	2020	2>	.026	106.4	3	.63	.2>	2>	237
825	LJm46	1>	2	10>	650	23041	67	62	.01>	3.46	4205	1>	.01>	4528	2>	.024	93.1	1>	.05	.2>	2>	264
826	LJn01	1>	1>	10	287	21632	33	23	.02	3.96	3198	1>	.21	2118	2>	.039	76.9	14	2.07	.2>	2>	204
827	LJn02	1>	1>	10>	348	41795	30	18	.01	2.81	3111	1>	.09	1900	2>	.031	215.8	8	1.49	.2>	2>	300
828	LJn03	1>	1>	10>	267	36050	25	16	.01	2.51	3334	1>	.08	1496	2>	.028	181.9	7	2.49	.2>	2>	269
829	LJn04	1>	2	15	462	32794	59	37	.01>	1.62	3601	1>	.01>	2455	2>	.024	159.9	1>	.12	.2>	2>	271
830	LJn05	1>	16	22	479	32330	49	31	.01>	1.89	3996	1>	.01>	2515	2>	.022	156.8	1	.11	.2>	2>	264
831	LJn06	1>	9	14	655	32952	58	51	.01>	3.01	4217	1>	.01>	3513	2>	.018	155.0	1>	.08	.2>	2>	309
832	LJn07	12	1>	55	11	527	6	16	.17	.18	145	1>	.07	97	12	.011	3.0	14	.13	1.2	2>	19
833	LJn08	1>	1>	79	51	1011	14	10>	.31	.65	491	1>	.10	448	10	.014	6.2	19	.14	.4	2>	39
834	LJn09	11	1>	82	49	1017	15	11	.34	.73	474	1>	.10	494	9	.014	3.2	20	.15	1.0	2>	41
835	LJn10	1>	1>	83	58	1141	16	13	.37	.75	494	1>	.11	520	4	.015	5.0	20	.14	1.0	2>	42
836	LJn11	1>	4	10>	226	40726	24	17	.01>	2.61	1890	1>	.01>	1409	2>	.015	213.8	1>	.41	.2	2>	281
837	LJn12	2	1>	10>	228	35568	26	14	.01>	2.44	1880	1>	.01>	1553	2>	.014	179.8	1>	.43	.2>	2>	262
838	LJn13	1>	4	10>	497	71110	60	32	.01>	1.90	3818	1>	.01>	2378	2>	.015	401.2	1>	.19	.2>	2>	506
839	LJn14	1>	1>	10>	216	56544	24	14	.01>	2.46	1920	1>	.01>	1336	2>	.012	323.1	1>	.60	.2	2>	357
840	LJn15	1>	1>	10>	335	41341	25	15	.01>	2.28	2584	1>	.01>	2036	2>	.012	219.8	1>	.13	.2>	2>	275
841	LJn16	1>	4	10>	341	45367	33	25	.01>	2.50	3056	1>	.01>	2077	2>	.014	239.1	1>	.41	.2>	2>	311
842	LJn17	18	1>	10>	384	36039	57	18	.01>	2.83	3108	1>	.01>	2614	2>	.016	184.3	1>	.34	.2>	2>	299
843	LJn18	6	1>	82	42	939	13	12	.36	.62	398	1>	.11	342	2>	.013	6.8	20	.14	1.2	2>	35
844	LJn19	2	1>	111	33	556	16	16	.53	.70	210	1>	.19	311	6	.019	2.9	28	.20	1.6	2>	40
845	LJn20	1>	1>	48	14	2930	6	10>	.13	.21	80	1>	.05	116	9	.012	12.6	12	.16	.8	2>	33
846	LJn21	1>	1>	52	150	4843	24	14	.19	1.23	1134	1>	.05	1128	2>	.013	13.2	12	.15	.8	2>	77
847	LJn22	1>	5	49	130	8344	20	11	.18	1.26	1052	1>	.05	924	2	.013	25.1	11	.17	1.0	2>	98
848	LKg01	16	9	113	8	161	113	178	.57	.76	138	3	.15	82	12	.028	3.0	26	.22	1.8	2>	32
849	LKg02	2	9	132	7	131	83	101	.60	.68	155	1>	.14	74	9	.022	3.7	27	.17	1.2	2>	31
850	LKg03	18	15	148	9	156	132	339	.77	.91	225	3	.18	98	8	.036	3.8	32	.23	2.2	2>	42

List of Geochemical Analysis(18)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
851	LKg04	11	15	124	11	120	70	99	.56	.58	127	1	.14	63	15	.025	3.5	26	.17	1.6	2>	29
852	LKg05	1>	21	144	5	101	57	105	.66	.56	116	2	.19	54	13	.020	3.4	31	.21	2.0	2>	31
853	LKg06	8	12	127	6	137	56	84	.59	.59	66	1	.15	59	12	.022	3.3	27	.18	1.4	2>	28
854	LKg07	3	57	128	8	199	99	112	.59	.73	122	2	.15	77	11	.023	1.9	27	.19	1.2	2>	34
855	LKg08	3	9	144	6	120	65	92	.61	.70	59	1>	.18	67	10	.015	2.9	32	.17	1.0	2>	32
856	LKh01	2	1>	62	1>	78	7	10>	.27	.09	5>	1>	.02	9	9	.014	1.3	13	.17	1.8	2>	9
857	LKh02	2	1>	60	1>	64	6	10>	.23	.06	5>	1>	.01	6	7	.017	.2>	12	.12	1.2	2>	7
858	LKh03	11	1>	26	1>	82	4	10>	.08	.02	5>	1	.01>	9	6	.010	1.5	9	.13	1.8	2>	5
859	LKh04	1>	1>	36	1>	79	5	10>	.10	.03	5>	1>	.01>	8	4	.010	1.5	10	.12	1.4	2>	6
860	LKh05	1>	1>	66	1>	51	4	10>	.14	.01	21	1	.01	5	7	.010	.4	12	.11	1.2	2>	6
861	LKh06	6	1>	51	1>	87	4	10>	.11	.01	107	1>	.01	11	6	.011	.2>	10	.29	2.2	2>	7
862	LKh07	1>	1>	79	1>	78	4	10>	.18	.02	21	1>	.02	9	2	.011	3.4	13	.12	1.0	2>	7
863	LKh08	11	1>	54	1>	137	5	10>	.14	.02	5>	1>	.01	14	4	.011	.2>	10	.13	1.6	2>	6
864	LKh09	11	1>	37	1>	83	5	10>	.09	.02	5>	1>	.01>	11	8	.010	.2>	10	.10	.6	2>	6
865	LKh10	10	1>	42	1>	74	4	10>	.13	.06	5>	1>	.01>	14	5	.010	.3	9	.15	1.4	2>	8
866	LKh11	4	1>	41	1>	53	4	10>	.12	.04	5>	1>	.01>	10	6	.010	.6	10	.15	1.8	2>	10
867	LKh12	10	1>	19	1>	66	3	10>	.03	.01>	5>	1>	.01>	10	8	.010	2.2	6	.10	1.2	2>	4
868	LKh13	4	1>	86	1>	85	3	10>	.23	.02	5>	1>	.02	12	10	.013	3.1	13	.20	2.9	2>	6
869	LKh14	1>	1>	63	1>	77	3	10>	.15	.02	5>	1>	.02	10	4	.011	3.3	13	.15	1.6	2>	6
870	LKh15	3	1>	63	1>	89	7	10>	.26	.09	5>	1>	.01	22	8	.011	.2>	12	.17	1.2	2>	12
871	LKh16	3	1>	97	1>	138	5	10>	.19	.04	5>	1>	.01	40	7	.014	.7	11	.15	1.4	2>	9
872	LKh17	14	1>	52	1>	70	6	10>	.18	.07	5>	1>	.01>	9	8	.011	.2>	15	.14	.8	2>	10
873	LKh18	1>	1>	40	1>	69	4	10>	.08	.01	34	1>	.01>	9	7	.010	2.2	8	.11	.6	2>	5
874	LKh19	9	1>	35	1>	56	4	10>	.10	.03	37	1>	.01>	9	9	.010	.2>	8	.12	.8	2>	6
875	LKh20	1>	1>	64	1>	67	4	10>	.16	.03	5>	1>	.02	11	2>	.012	.8	13	.10	.6	2>	8
876	LKh21	3	1>	61	1>	79	4	10>	.15	.03	14	1>	.01	13	7	.012	1.4	13	.11	1.0	2>	7
877	LKh22	14	1>	84	1>	61	6	10>	.21	.04	5>	1>	.03	22	7	.013	2.4	15	.12	1.0	2>	9
878	LKh23	8	1>	51	1>	86	6	10>	.14	.05	5>	1>	.01>	12	9	.011	1.4	13	.14	1.4	2>	9
879	LKh24	10	1>	139	1>	91	9	10>	.43	.08	5>	1>	.07	28	12	.014	.2>	24	.12	.8	2>	13
880	LKh25	11	1>	126	1>	133	5	10>	.33	.05	33	1>	.05	14	8	.012	2.4	22	.11	.6	2>	10
881	LKj01	12	1>	68	4	171	9	10>	.36	.41	16	1>	.09	73	6	.017	5.1	17	.23	1.6	2>	28
882	LKj02	1>	1>	79	6	172	8	13	.31	.44	97	1>	.15	76	2>	.015	3.9	20	.25	1.6	2>	27
883	LKj03	1>	1>	76	1>	150	6	10>	.24	.20	67	1>	.05	32	3	.014	.6	16	.22	1.0	2>	18
884	LKj04	21	1>	55	1	183	7	10>	.13	.13	111	1>	.03	39	5	.012	1.6	12	.17	.6	2>	13
885	LKj05	9	1>	74	4	142	8	11	.33	.24	66	1	.05	38	2	.012	5.0	17	.23	1.4	2>	22
886	LKj06	33	1>	87	3	162	10	35	.28	.22	5>	1>	.03	38	10	.083	.9	17	.23	1.6	2>	21
887	LKj07	11	1>	37	1>	115	6	10>	.12	.06	5>	1	.01>	13	8	.010	2.1	11	.11	1.2	2>	12
888	LKj08	2	1>	46	1>	139	4	10>	.09	.02	13	1>	.01	13	3	.012	.2>	10	.12	1.4	2>	9
889	LKj09	6	1>	36	1	111	5	10>	.07	.04	43	1>	.01>	13	4	.011	1.0	9	.11	.6	2>	11
890	LKj10	5	1>	27	1>	92	5	10>	.05	.05	22	1>	.01>	13	6	.011	.8	7	.09	.6	2>	8
891	LKj11	4	1>	32	1>	106	5	10>	.07	.10	4	1>	.01	21	2>	.013	2.0	12	.11	1.0	2>	10
892	LKj12	5	1>	32	3	316	9	10>	.08	.35	58	1>	.04	59	5	.012	3.3	11	.16	1.0	2>	18
893	LKj13	21	1>	78	22	239	9	12	.31	.49	665	1>	.15	104	5	.014	4.3	21	.25	2.0	2>	29
894	LKj14	10	1>	39	11	568	7	10>	.12	.81	182	1>	.04	139	4	.012	2.1	10	.12	.8	2>	29
895	LKj15	4	1>	34	14	1182	7	10>	.08	.98	275	1>	.03	168	2	.013	7.5	11	.11	.6	2>	40
896	LKj16	21	1>	48	13	932	7	10>	.12	.60	239	1>	.05	137	8	.012	5.4	13	.16	1.4	2>	34
897	LKk01	1>	4	56	137	11730	46	30	.21	3.85	3472	1>	.14	1541	2>	.020	38.7	21	.36	1.0	2>	227
898	LKk02	12	1>	110	174	19494	70	25	.89	5.03	4836	1>	.12	1858	7	.025	72.5	21	.51	.8	2>	387
899	LKk03	3	1>	66	7	422	8	239	.29	.79	192	1>	.23	82	2>	.017	4.5	28	.28	1.6	2>	35
900	LKk04	1>	1>	114	27	350	17	115	.61	.58	412	1>	.31	167	5	.018	2.5	24	.27	1.4	2>	50

List of Geochemical Analysis(19)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
901	LKk05	1>	1>	54	14	563	10	100	.22	1.74	413	1>	.17	209	5	.018	8.3	22	.21	1.0	2>	43
902	LKk06	11	1>	65	86	7076	60	121	.28	3.91	1882	1>	.13	744	3	.052	22.8	19	.27	1.0	2>	166
903	LKk07	3	2	33	308	29325	65	44	.09	3.77	4150	1>	.05	2503	2>	.030	138.6	8	.32	1.2	2>	438
904	LKk08	7	1>	110	46	422	18	239	.52	1.14	1594	1>	.19	231	23	.020	7.2	27	.24	1.4	2>	54
905	LKk09	1>	1>	31	75	821	45	35	.09	9.63	2637	1>	.17	817	2>	.056	1.3	18	.18	.4	2>	104
906	LKk10	14	1>	14	2	155	10	12	.02	1.01	240	1>	.01	110	3	.019	2.3	5	.15	1.0	2>	16
907	LKk11	1	1>	63	19	523	16	10>	.31	1.72	366	1>	.01	187	15	.032	4.8	14	.31	1.6	2>	41
908	LKk12	20	1>	38	55	1345	12	14	.06	1.89	342	1>	.03	228	2>	.015	8.8	10	.19	.6	2>	46
909	LKk13	21	1>	40	25	841	8	10>	.08	.85	182	1>	.02	289	6	.014	6.2	10	.15	.8	2>	34
910	LKk14	6	1>	40	59	3123	10	14	.11	3.29	692	1>	.07	632	2>	.018	13.4	12	.14	1.2	2>	87
911	LKk15	1>	1>	109	184	14051	52	46	.58	1.83	2437	1>	.07	1702	2>	.028	39.4	20	.30	1.4	2>	254
912	LKk16	16	1>	113	140	2920	37	116	.55	.73	2155	1>	.24	988	8	.021	8.9	30	.34	1.4	2>	101
913	LKk17	12	1>	70	3	447	12	55	.29	.54	94	1>	.21	77	2>	.019	6.1	25	.23	.8	2>	46
914	LKk18	19	1>	50	67	3131	83	57	.20	3.95	1745	1>	.19	726	2>	.027	14.7	21	.30	.6	2>	133
915	LKk19	1>	1>	69	78	3840	29	84	.17	.52	1523	1>	.03	636	19	.017	14.5	15	.23	1.6	2>	108
916	LKk20	5	1	63	174	24455	105	59	.16	5.50	6740	1>	.11	1704	12	.030	86.0	21	.54	.8	2>	336
917	LKk21	1>	1>	17	2	294	4	26	.04	.38	82	1>	.01	55	2>	.014	.9	7	.16	1.2	2>	11
918	LKk22	1>	1>	14	12	508	19	41	.03	2.10	149	1>	.02	205	2>	.033	7.7	7	.14	.8	2>	26
919	LKk23	8	1>	35	19	669	26	45	.14	2.46	800	1>	.02	283	2>	.030	5.3	9	.20	1.2	2>	40
920	LKk24	1>	1>	105	66	1303	83	28	.72	4.55	4807	1>	.09	774	8	.033	5.2	23	.37	1.2	2>	104
921	LKk25	1>	1>	32	113	4969	46	28	.21	8.47	3117	1>	.18	1471	2>	.054	12.4	20	.89	.4	2>	155
922	LKm01	1>	13	10>	154	6496	41	14	.01	14.68	2275	1>	.56	1970	2>	.033	9.8	43	.29	.2>	2>	216
923	LKm02	1>	1>	12	146	46845	31	10>	.07	6.11	2450	1>	.18	1253	2>	.028	241.7	18	.97	.2>	2>	486
924	LKm03	5	1>	34	282	28525	32	46	.02	5.28	4930	1>	.05	1980	2>	.021	115.3	6	.28	.4	2>	435
925	LKm04	3	1>	10>	228	62002	28	20	.01	3.82	3019	1>	.08	1401	2>	.020	326.5	8	.82	.4	2>	546
926	LKm05	1>	19	15	106	10102	445	18	.11	3.51	3745	1>	.27	478	2>	.044	50.0	22	3.79	.2>	2>	196
927	LKm06	1>	1>	14	230	50242	27	18	.07	7.96	2400	1>	.20	2345	2>	.024	217.4	15	.29	.2>	2>	409
928	LKm07	1>	6	18	256	60265	33	21	.06	5.14	3084	1>	.20	1953	2>	.022	283.1	20	.54	.2>	2>	484
929	LKm08	1>	1>	10>	224	35925	36	16	.02	9.37	2283	1>	.57	2424	2>	.142	131.8	24	.20	.2>	2>	348
930	LKm09	1>	1>	10>	220	50095	23	12	.05	7.88	2298	1>	.22	2187	2>	.030	207.4	15	.25	.2>	2>	405
931	LKm10	1>	3	64	228	7394	180	51	.37	2.72	11624	1>	.20	1305	3	.027	27.2	28	1.05	.6	2>	189
932	LKm11	1>	66	48	113	8410	516	65	.24	2.06	6217	1>	.50	537	2>	.032	33.9	34	1.86	.6	2>	179
933	LKm12	1>	14	19	110	12350	152	12	.14	3.13	3402	1>	.72	633	2>	.029	43.7	48	3.61	.2	2>	196
934	LKm13	1>	1>	15	145	20682	88	40	.17	2.37	2539	1>	.39	979	2>	.027	49.7	25	1.84	.2>	2>	216
935	LKm14	1>	2	12	216	24754	82	41	.11	2.40	3494	1>	.26	1292	2>	.025	79.8	21	1.99	.2>	2>	241
936	LKm15	1>	1>	10>	111	10351	96	41	.21	2.63	1898	1>	.49	917	2>	.032	30.1	31	1.49	.2>	2>	178
937	LKm16	1>	23	19	254	14927	113	47	.09	2.06	5856	1>	.18	1069	2>	.025	44.2	20	2.91	.2	2>	189
938	LKm17	1>	1>	20	160	32146	21	22	.10	7.72	2628	1>	.26	1981	2>	.045	111.7	26	1.02	.2>	2>	401
939	LKm18	1>	1>	164	41	1841	35	29	1.80	3.71	941	1>	.51	554	2>	.189	6.1	62	.48	2.0	2>	128
940	LKm19	1>	1>	30	156	48518	16	11	.02	8.76	3055	1>	.21	1974	2>	.042	198.9	24	1.32	.2>	2>	506
941	LKm20	1>	1>	142	130	14730	31	11	.08	8.75	2375	1>	.52	1547	29	.058	39.6	51	2.01	.2>	2>	287
942	LKm21	2	1>	30	106	10640	18	11	.07	3.47	1987	1>	.18	923	2>	.031	34.0	22	1.45	.4	2	215
943	LKm22	1>	1>	32	105	8422	22	18	.12	6.44	2024	1>	.25	1136	2>	.042	27.9	24	1.43	.8	2>	187
944	LKm23	1>	1>	10>	187	66886	42	10>	.02	7.10	1993	1>	.08	1487	2>	.028	304.9	9	.62	.2>	2>	457
945	LKm24	1>	1>	10	243	28863	73	18	.04	9.44	2485	1>	.14	2294	2>	.026	84.6	11	.44	.2>	2>	284
946	LKm25	17	1>	26	149	9747	24	15	.08	4.48	1786	1>	.12	1308	2>	.023	29.5	10	.27	.4	2>	185
947	LKm26	1>	3	10>	173	56741	42	11	.02	6.71	2007	1>	.07	1426	2>	.026	257.3	8	.59	.2>	2>	403
948	LKm27	3	1>	10>	274	56122	102	26	.01>	7.24	2662	1>	.06	2561	2>	.023	242.9	6	.47	.2>	2>	377
949	LKm28	1>	1>	86	129	10529	23	10>	.01	13.56	1620	1>	.13	1690	2>	.039	16.3	7	.17	.2>	2>	235
950	LKm29	1>	1>	10>	127	11738	22	10>	.01>	13.54	1643	1>	.12	1695	2>	.035	19.3	7	.16	.2>	2>	239

List of Geochemical Analysis(20)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
951	LKm30	1>	1>	21	134	7286	24	13	.01>	14.43	1576	1>	.13	1993	2>	.033	5.2	6	.14	.2>	2>	198
952	LKm31	1>	1>	18	375	27316	78	46	.02	3.97	2991	1>	.08	2268	2>	.019	81.6	2	.42	.2>	2>	389
953	LKm32	8	3	24	113	11190	36	52	.08	1.41	724	1>	.04	1012	2>	.019	30.5	10	.54	1.0	2>	166
954	LKm33	2	1>	83	108	7628	37	13	.96	8.85	1437	1>	.24	1355	2>	.027	16.6	27	.37	1.0	2>	203
955	LKm34	1>	1>	21	161	38489	68	28	.09	2.86	3768	1>	.06	953	2>	.017	150.0	9	1.32	.4	2>	368
956	LKn01	1>	1>	16	163	12353	21	10>	.09	12.78	2194	1>	.31	2044	2>	.048	18.7	32	.52	.2	2>	286
957	LKn02	1>	1>	35	85	1810	22	17	.13	6.73	2014	1>	.16	1105	2>	.033	9.3	21	.25	.4	2>	97
958	LKn03	5	1>	52	130	3498	25	26	.30	4.91	1738	1>	.21	1345	2>	.046	14.9	25	.69	.6	2>	113
959	LKn04	5	1>	64	54	4980	16	11	.39	4.66	1688	1>	.26	551	2>	.106	15.5	30	1.07	.6	2>	118
960	LKn05	1>	1>	30	39	5807	9	10>	.10	3.73	639	1>	.07	589	2>	.035	21.0	14	.17	.2	2>	112
961	LKn06	1>	1>	10>	119	6433	23	10>	.01	15.43	1598	1>	.22	1868	2>	.035	.2>	17	.16	.2>	2>	190
962	LKn07	1>	37	10>	149	42139	14	10>	.01	10.13	1925	1>	.29	1583	2>	.030	151.5	26	.16	.2	2>	379
963	LKn08	1>	1>	10>	157	22649	35	10>	.01>	12.72	2153	1>	.16	1745	2>	.030	40.3	11	.20	.2>	2>	316
964	LKn09	1>	1>	10>	110	6376	40	10>	.01	13.52	1654	1>	.25	1492	2>	.110	.2>	16	.21	.2>	2>	210
965	LKn10	6	1>	10>	108	19223	23	10>	.01	12.94	1674	1>	.21	1469	2>	.049	27.3	18	.22	.2>	2>	282
966	LKn11	2	1>	10>	130	6252	25	10>	.01	13.80	1922	1>	.25	1683	2>	.037	3.7	14	.20	.2>	2>	197
967	LKn12	1>	98	27	166	28876	34	18	.20	5.73	2357	1>	.39	1362	2>	.030	91.9	31	.84	.4	2>	372
968	LKn13	2	1>	32	45	4826	9	10>	.10	1.84	636	1>	.04	412	2>	.013	17.3	10	.30	1.0	2>	101
969	LKn14	1>	6	10>	173	32902	46	18	.01	7.69	1867	1>	.10	1588	2>	.023	106.2	7	.44	.2>	2>	285
970	LKn15	1>	1	10>	344	20369	71	30	.03	3.80	2432	1>	.22	1908	2>	.025	51.8	10	.38	.2>	2>	328
971	LKn16	1>	1>	10>	115	57119	25	10>	.01>	4.24	1423	1>	.02	836	2>	.017	252.1	2	.62	.2>	2>	350
972	LKn17	1>	1>	51	187	7388	26	10>	.01	13.45	2312	1>	.14	1875	2>	.034	7.0	4	.16	.2>	2>	210
973	LKn18	1>	1	79	342	32830	123	28	.02	6.91	3094	1>	.04	2877	2>	.026	103.8	4	.20	.2>	2>	312
974	LKn19	1>	1>	21	209	19789	23	25	.01	11.10	2782	1>	.15	1744	2>	.035	29.3	9	.21	.2>	2>	337
975	LKn20	1>	2	55	446	28921	188	48	.01>	4.24	3822	1>	.02	3674	2>	.022	84.9	2	.21	.2>	2>	295
976	LKn21	1>	1>	10>	107	7001	20	10>	.01	17.19	1514	1>	.07	2023	2>	.025	.2>	8	.25	.2>	2>	210
977	LMj01	3	1>	89	1>	263	5	10>	.23	.07	56	1	.03	44	5	.012	2.1	14	.12	1.0	2>	12
978	LMj02	14	1>	18	1>	137	3	10>	.03	.01>	72	2	.01>	18	2>	.010	.2	5	.19	1.2	2>	7
979	LMj03	1>	1>	27	1>	144	3	10>	.05	.01>	30	1>	.01>	13	2>	.017	.7	9	.18	.8	2>	6
980	LMj04	17	1>	30	1>	216	4	10>	.07	.01	5>	1	.01>	9	2>	.012	.3	9	.11	1.0	2>	5
981	LMj05	4	1>	66	1>	130	7	12	.25	.09	5>	1	.01	27	2>	.014	1.1	17	.16	1.6	2>	10
982	LMj06	10	1>	117	1>	160	6	22	.22	.10	5>	1>	.03	14	3	.023	.4	18	.19	1.6	2>	10
983	LMj07	5	1>	103	1>	262	7	24	.29	.06	5>	1	.06	36	2>	.030	2.5	17	.14	1.2	2>	10
984	LMj08	3	1>	43	5	416	10	11	.17	2.28	151	1>	.13	226	2>	.034	6.2	16	.13	.8	2>	31
985	LMj09	50	1>	52	1>	268	11	50	.30	.62	5>	1>	.06	59	3	.399	9.3	15	.11	2.0	2>	33
986	LMj10	22	1>	242	1	150	11	102	.50	.16	5>	7	.14	25	2>	.368	.2>	25	.23	3.0	2>	17
987	LMm01	7	1>	54	1>	131	4	10>	.13	.01	104	1	.01	9	3	.013	1.9	10	.29	1.4	2>	8
988	LMn01	13	1>	90	1>	130	5	14	.24	.03	22	1	.07	19	6	.020	2.7	16	.13	.8	2>	10
989	LMn02	4	1>	47	1	196	5	10>	.11	.02	41	1>	.03	19	2>	.014	3.8	9	.11	.8	2>	9
990	LMn03	6	1>	72	1>	183	5	10>	.16	.02	78	1>	.03	50	2>	.014	1.4	13	.14	1.2	2>	8
991	LMn04	10	1>	82	3	165	12	18	.45	.22	124	1>	.12	15	2>	.015	3.0	20	.17	1.2	2>	26
992	LMn05	6	1>	35	1>	266	12	10>	.12	.07	153	2	.01>	14	3	.011	.2	10	.09	.8	2>	12
993	LMn06	2	1>	32	1>	230	5	10>	.07	.01	5	1	.01	13	2>	.012	2.6	9	.11	1.0	2>	6
994	LMn07	8	1>	19	1>	150	4	10>	.02	.01>	22	1>	.01>	6	2>	.011	1.7	5	.08	.6	2>	4
995	LMn08	1	1>	22	1>	274	5	10>	.06	.03	19	1	.01>	40	2>	.011	2.5	7	.20	1.6	2>	11
996	LMn09	1>	1>	41	1>	281	6	10>	.10	.03	56	1>	.01	30	2>	.011	3.9	9	.10	.6	2>	8
997	LMn10	3	1>	107	4	170	11	13	.47	.22	411	1	.31	24	8	.034	3.2	30	.14	1.0	2>	28
998	LMn11	1>	1>	115	4	157	10	10>	.47	.18	354	1>	.20	26	2>	.020	1.1	29	.15	.8	2>	24
999	LMn12	11	1>	56	1>	185	7	11	.22	.10	71	1>	.16	15	2>	.012	1.8	17	.16	1.4	2>	15
1000	LMn13	1>	1>	88	1>	223	6	10>	.24	.05	44	1>	.08	33	2>	.030	2.4	18	.16	1.2	2>	11

List of Geochemical Analysis(21)

Ser. No.	Sample No.	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1001	LMn14	11	1>	30	1>	134	4	11	.05	.05	11	1>	.02	11	2>	.021	2.3	9	.10	.6	2>	7
1002	LMn15	11	1>	22	1>	140	4	10>	.03	.01>	35	1>	.01>	10	2>	.011	1.1	7	.14	1.4	2>	5
1003	LMn16	17	1>	35	1>	144	4	10>	.07	.01	31	1	.01	7	2>	.011	1.1	8	.12	.6	2>	6
1004	LMn17	10	1>	46	1>	101	4	10>	.14	.04	39	1	.07	12	2	.012	1.3	12	.14	.6	2>	10
1005	LMn18	1>	1>	21	1>	117	3	10>	.02	.01>	9	1>	.01>	9	2>	.011	3.1	6	.10	.8	2>	4
1006	LNn01	16	1>	83	1>	152	15	15	.29	.22	154	1>	.11	21	2	.019	2.7	22	.15	1.2	2>	22
1007	LNn02	1>	1>	227	6	128	16	35	.73	.36	260	1>	.25	25	4	.027	2.4	35	.21	1.4	2>	45
1008	LNn03	7	1>	92	1>	115	9	18	.46	.20	9	1	.08	14	4	.014	3.2	15	.19	1.2	3	23

Appendix 22

List of pan concentrate samples
in the Kinabalu/Labuk area

Ser. No.	Sample No.	Coordinates N	Coordinates E	Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow *1	Size *2
1	Y211	1575.30	4677.60	Linkabau	S. Karagasan	1	3	5.0	3	2
2	K202	1589.45	4689.60	Linkabau	S. Buan	1	3	10.0	3	3
3	S206	1579.50	4683.30	Linkabau	S. Ogan	< 1	3	5.0	3	3
4	S205	1574.10	4681.93	Linkabau	S. Sugut	2	3	4.0	3	3
5	Y212	1574.60	4684.55	Linkabau	S. Ogan	< 1	3	10.0	3	3
6	Y207	1574.00	4686.12	Linkabau	S. Sugut	2	2	6.0	4	2
7	Y209	1575.25	4688.15	Linkabau	S. Tungtonarom	1	2	3.0	3	3
8	C207	1564.57	4682.70	Linkabau	S. Soviun	2	3	5.0	2	1
9	D203	1582.65	4696.95	Linkabau	S. Linkabau	1	4	16.0	2	3
10	S204	1580.75	4698.90	Linkabau	S. Karapui	2	2	4.0	2	3
11	C210	1576.10	4690.85	Linkabau	S. Yaigau	2	2	5.0	2	1
12	K201	1578.20	4696.25	Linkabau	S. Sugut	1	2	3.0	3	4
13	Y206	1577.95	4698.10	Linkabau	S. Puntodong	1	3	5.0	3	4
14	P208	1564.10	4692.55	Linkabau	S. Tungud	< 1	3	7.0	3	2
15	P209	1566.40	4694.18	Linkabau	S. Tungud	2	3	6.0	3	2
16	S203	1568.20	4699.23	Linkabau	S. Tungud	2	3	7.0	2	3
17	D202	1567.05	4699.75	Linkabau	S. Sasau	127	3	14.0	3	2
18	Y214	1584.85	4703.35	Linkabau	S. Sugut	1	2	1.5	2	4
19	P210	1582.35	4702.80	Linkabau	S. Sugut	1	2	4.0	3	2
20	H206	1566.70	4704.22	Linkabau	S. Tungud	29	2	6.0	3	2
21	C201	1550.20	4679.20	Kiabau	S. Peraganpang	6	3	10.0	1	1
22	S202	1535.40	4679.60	Kiabau	S. Mailo	203	3	10.0	2	3
23	C206	1561.95	4689.70	Kiabau	S. Soviun	2	4	10.0	2	1
24	P206	1558.70	4688.65	Kiabau	S. Tungud	9	2	7.0	4	1
25	P207	1558.05	4687.30	Kiabau	S. Tungud	< 1	2	4.0	4	2
26	P202	1555.40	4688.25	Kiabau	S. Walun	39	3	7.0	4	1
27	C204	1553.55	4683.40	Kiabau	S. Tabuk	3	3	10.0	2	1
28	C203	1553.15	4683.40	Kiabau	S. Tungud	3	3	15.0	2	1
29	T203	1541.65	4689.85	Kiabau	S. Ensuan	77	4	15.0	3	2
30	S201	1537.48	4680.35	Kiabau	S. Melapi	138	2	4.0	2	3
31	D201	1557.20	4698.85	Kiabau	S. Padau Lawan	5	3	12.0	4	1
32	Y204	1549.20	4692.00	Kiabau	S. Meliau	37	3	20.0	3	2
33	T208	1545.10	4698.45	Kiabau	S. Meliau	182	3	16.0	3	2
34	T202	1541.65	4698.30	Kiabau	S. Labuk	51	2	3.5	3	3
35	G201	1554.10	4703.15	Kiabau	S. Padau Lawan	29	3	12.0	4	1
36	H202	1553.60	4703.80	Kiabau	S. Matapatan	30	3	8.0	3	2
37	G202	1549.15	4702.00	Kiabau	S. Labuk	41	2	7.0	2	3
38	N220	1538.00	4701.45	Kiabau	S. Mau	1,180	2	6.0	3	3
39	G217	1536.25	4702.95	Kiabau	S. Kiabau	9	3	6.0	3	1
40	P211	1587.80	4705.90	Sungai Sungai	S. Sugut	2	3	5.0	2	3
41	Y215	1586.85	4705.90	Sungai Sungai	S. Sugut	2	2	6.0	2	4
42	H203	1568.70	4714.25	Sungai Sungai	S. Botitian	1	3	5.0	2	3
43	H208	1563.15	4721.95	Sungai Sungai	S. Wanyang	5	2	8.0	3	3
44	G203	1553.85	4705.62	Terusan Sapi	S. Paliau	13	2	14.0	2	1
45	G206	1552.75	4707.05	Terusan Sapi	S. Bidu Bidu	47	3	10.0	4	1
46	N217	1548.25	4712.95	Terusan Sapi	S. Sualog	260	3	9.0	3	1
47	N201	1548.25	4714.10	Terusan Sapi	S. Sualog	68	3	8.0	3	1
48	N202	1544.30	4713.40	Terusan Sapi	S. Bangau Bangau	245	3	20.0	4	1
49	N205	1537.35	4717.55	Terusan Sapi	S. Kibut	37	2	8.0	4	1
50	N219	1536.00	4714.90	Terusan Sapi	—	205	2	8.0	4	2
51	N218	1540.90	4726.00	Terusan Sapi	S. Pandan Pandan	7	3	12.0	1	3
52	N223	1536.55	4722.90	Terusan Sapi	S. Mandaring	1	2	15.0	2	3

Stream flow*1: none(0), puddle(1), slow(2), moderate(3), fast(4)
Grain size*2 : coarse-grained(1), medium-grained(2), fine-grained(3), clayey(4)

Appendix 23

Results of qualitative mineral examination of pan concentrates in the Kinabalu/Labuk area

Ser. No.	Sample No.	Native silver	Magnetite	Chromite	Hematite	Ilmenite	Leucoxene	Rutile	Brookite	Anatase	Pyrite	Goethite	Augite	Hypersthene	Hornblende	Actinolite	Tourmaline	Garnet	Zircon	Quartz	Plagioclase
1	Y211	Tr	2			54	Tr											Tr	35	9	Tr
2	K202		Tr			41	1	Tr			Tr	Tr					Tr	1	37	20	Tr
3	S206					5	Tr	Tr											15	80	Tr
4	S205		Tr			57	Tr	Tr									Tr		11	32	Tr
5	Y212		Tr			33	1	Tr			Tr						Tr	Tr	40	26	Tr
6	Y207		1			13	1	Tr			Tr						Tr	Tr	57	28	Tr
7	Y209					10	Tr	Tr			Tr						Tr	Tr	62	28	Tr
8	C207					3	Tr	Tr									Tr		5	92	Tr
9	D203		Tr			8	2	Tr			Tr						Tr		45	45	Tr
10	S204					Tr	Tr	Tr										Tr	3	97	Tr
11	C210		1			14	Tr	Tr			Tr						Tr	Tr	39	46	Tr
12	K201		Tr			9	Tr	Tr		Tr							Tr		38	53	Tr
13	Y206		Tr			18	1	Tr		Tr							Tr	Tr	78	3	
14	P208		Tr			12	Tr	Tr									Tr		27	61	Tr
15	P209		1			22	2	Tr			Tr	Tr					Tr	Tr	24	51	Tr
16	S203		Tr			7	Tr	Tr									Tr		34	59	Tr
17	D202		5	73		10		Tr				Tr	2	Tr					Tr	Tr	10
18	Y214		16			4	1	Tr					Tr	Tr	4		Tr		18	56	Tr
19	P210		Tr	Tr		Tr	Tr	Tr							Tr		Tr		3	97	Tr
20	H206		1	86	Tr	3		Tr					1					Tr	Tr	3	6
21	C201		20	32	5	27		Tr			Tr		1	2	2				Tr	1	10
22	S202		29		Tr	71								Tr	Tr				Tr	Tr	Tr
23	C206					5	Tr	Tr											6	89	Tr
24	P206		1	60		36	Tr	Tr				Tr	Tr							2	1
25	P207		Tr	12		7	3	1	Tr								Tr		24	53	Tr
26	P202		16	36		46							Tr	1	Tr					Tr	1
27	C204		2	3		7	Tr	Tr							Tr		Tr		3	85	Tr
28	C203		15	8	Tr	46	Tr	Tr			Tr	Tr	Tr				Tr	Tr	6	25	Tr
29	T203		22	32		43						Tr	1	1	Tr					Tr	1
30	S201		4	10		86							Tr		Tr				Tr	Tr	Tr
31	D201		3	75	Tr	19		Tr				Tr	1	Tr				Tr		Tr	2
32	Y204		6	79		12						Tr	Tr							1	2
33	T208		5	65		28						Tr	Tr	Tr	Tr				Tr	Tr	2
34	T202		4	55		30		Tr				Tr	1	Tr	7					Tr	3
35	G201		4	84		11		Tr				Tr	Tr						Tr	Tr	1
36	H202		2	76		11	Tr	Tr				Tr	1	Tr	Tr				Tr	1	9
37	G202		7	57		32						Tr	Tr	Tr	Tr				3	Tr	1
38	N220		9	35		55						Tr	Tr	Tr	Tr					Tr	1
39	G217		4	43		4	Tr												Tr	44	5
40	P211		3										Tr		Tr					97	Tr
41	Y215		18	4		7	Tr	Tr				Tr			1		Tr		14	56	Tr
42	H203		2	7		3	Tr	Tr			Tr		Tr		Tr		Tr		Tr	88	Tr
43	H208		8	31		6	Tr	Tr			Tr		1	15	Tr			Tr	Tr	24	15
44	G203		4	89		5							Tr		Tr					Tr	2
45	G206		11	67		22												Tr			Tr
46	N217		6	71		22						Tr	Tr	Tr	Tr				Tr	Tr	1
47	N201		3	84		7						2	Tr	Tr	1			Tr		Tr	3
48	N202		10	71		18						Tr	Tr					Tr			1
49	N205		28	39	Tr	6		Tr				Tr	1	Tr	Tr	Tr			Tr	25	1
50	N219		22	72		5						Tr	Tr		Tr			Tr			1
51	N218		7	25		8	Tr	Tr				Tr					Tr		55	5	Tr
52	N223		3	10		23	Tr	Tr			Tr						Tr	Tr	16	48	Tr

Appendix 24

List of samples and analytical results of rock geochemical samples in the Kinabalu/Labuk area

Area: Kinabalu/Labuk Area

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Name of Stream	Descriptions	Geol. Unit	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1	Y210	1578.70	4686.93	Linkabau	S. Tungtonarom	sandstone	P_2Cr	< 1	< 1	128	30	21	10	< 10	.83	.62	2022	1	.70	22	< 2	.068	4.9	55	.18	1.0	107	49
2	Y208	1571.30	4686.24	Linkabau	—	sandstone	P_2Cr	2	< 1	112	27	20	7	< 10	.71	.49	184	< 1	.85	22	3	.080	.5	65	.19	1.0	226	28
3	C202	1547.90	4678.87	Kiabau	S. Peraganpang	gabbro	Ub	< 1	< 1	28	40	313	38	< 10	.25	5.20	882	< 1	2.54	232	< 2	.093	< .2	155	.58	< .2	24	75
4	S202	1539.65	4677.85	Kiabau	S. Mailo	microgabbro	Ub	< 1	< 1	11	46	35	9	< 10	.06	3.63	824	2	1.94	39	< 2	.059	4.7	85	.48	< .2	82	51
5	P204	1551.85	4687.85	Kiabau	S. Walun	gabbro	Ub	< 1	< 1	11	39	99	25	< 10	.38	4.28	1008	1	3.23	55	< 2	.060	8.7	196	.87	< .2	38	84
6	T206	1544.65	4687.90	Kiabau	S. Ensuan	basalt	KPCS	< 1	< 1	< 10	24	21	< 1	< 10	.07	1.55	549	2	2.60	15	< 2	.038	6.2	101	.85	< .2	54	35
7	Y202	1546.80	4693.16	Kiabau	S. Meliau	peridotite	Ub	< 1	< 1	< 10	101	769	30	< 10	<.01	21.06	1038	< 1	.30	1792	< 2	.068	< .2	14	.10	< .2	19	178
8	Y201	1541.10	4690.45	Kiabau	S. Ensuan	periditite	Ub	5	1	< 10	121	724	5	< 10	<.01	24.71	1103	< 1	.01	2262	< 2	.011	< .2	< 1	.01	< .2	108	205
9	T201	1541.80	4696.57	Kiabau	—	gabbro	Ub	< 1	< 1	< 10	45	122	21	< 10	.08	4.27	604	1	1.85	89	< 2	.068	1.2	92	.22	< .2	44	56
10	S201	1534.95	4690.95	Kiabau	—	microgabbro w/pyrite	Ub	< 1	< 1	64	43	118	30	< 10	.17	4.14	1404	< 1	2.94	71	< 2	.207	6.4	731	.86	< .2	27	113
11	G204	1561.35	4702.20	Kiabau	—	peridotite	Ub	< 1	< 1	< 10	89	997	30	< 10	<.01	20.13	1037	< 1	.10	1673	< 2	.066	< .2	10	.08	< .2	12	116
12	G213	1545.88	4703.70	Kiabau	S. Porog	peridotite	Ub	< 1	< 1	< 10	95	1155	19	< 10	<.01	21.20	1001	< 1	.03	1944	< 2	.032	< .2	6	.02	< .2	< 2	177
13	N221	1539.83	4703.85	Kiabau	S. Kiabau	specularite(float)	(Ub)	< 1	< 1	< 10	337	1868	40	< 10	<.01	.09	247	5	<.01	942	< 2	.031	37.4	< 1	.01	< .2	61	52
14	H204	1575.74	4709.67	Sungai Sungai	—	sandstone	P_2Cr	4	< 1	302	52	40	7	< 10	1.08	.11	< 5	< 1	.76	20	5	.013	< .2	71	.18	1.2	360	19
15	H205	1571.20	1707.43	Sungai Sungai	—	sandstone	P_3Kd	4	< 1	402	29	24	8	< 10	1.70	.43	48	2	1.51	24	5	.133	1.3	119	.17	1.0	238	31
16	N222	1538.87	4705.15	Terusan Sapi	S. Mormud	peridotite	Ub	6	< 1	< 10	104	665	13	< 10	.01	21.72	951	< 1	.07	2078	< 2	.041	< .2	2	.01	< .2	< 2	186
17	G218	1548.95	4712.15	Terusan Sapi	S. Sualog	basalt	KPCs	< 1	< 1	13	38	189	60	< 10	.23	5.86	622	< 1	3.09	94	< 2	.061	4.7	86	.64	< .2	47	95
18	G219	1548.07	4711.90	Terusan Sapi	—	pillow lava	KPCs	< 1	< 1	< 10	42	190	76	< 10	.08	5.40	764	1	2.68	89	< 2	.056	2.7	100	.66	< .2	20	103
19	G209	1541.58	4711.50	Terusan Sapi	S. Bangau B.	serpentinite	Ub	< 1	< 1	< 10	92	915	28	< 10	<.01	19.98	974	< 1	.09	1723	< 2	.180	< .2	5	.08	< .2	13	172
20	N225	1537.32	4717.75	Terusan Sapi	S. Kibut	siltstone	P_4Gr	< 1	< 1	271	22	86	35	34	2.13	1.38	482	1	.47	51	2	.072	6.2	171	.41	2.2	< 2	90
21	N224	1536.53	4724.77	Terusan Sapi	—	sandstone	P_4Gr	6	< 1	303	26	52	13	37	.84	.70	759	1	.88	40	17	.311	2.0	118	.27	1.6	55	57

Appendix 25

List of samples and analytical results of soil geochemical samples in the Kinabalu/Labuk area

Area: Kinabalu/Labuk Area

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation	Al %	Co ppm	Cr ppm	Fe %	Ni ppm	Pt ppb
1	C209	1561.80	4693.26	Kiabau	serpentinite	Ub	25	L.B.	R	C	M	W	Secondary forest	1.94	407	7600	16.04	3285	30
2	P205	1555.25	4688.13	Kiabau	serpentinite	Ub	20	L.Y.B.	R	C	M	W	Secondary forest	8.99	422	5526	35.95	3297	20
3	T213	1554.10	4686.92	Kiabau	serpentinite	Ub	10	R.	R	C	S	W	Secondary forest	7.63	150	8235	26.18	2301	15
4	T211	1547.80	4677.80	Kiabau	serpentinite	—	20	R.B.	R	C	S	W	Secondary forest	8.28	40	220	6.21	451	< 5
5	T210	1546.42	4678.13	Kiabau	serpentinite	Ub	15	R.B.	R	C	M	W	Secondary forest	11.71	45	175	11.69	107	< 5
6	T207	1542.20	4690.42	Kiabau	serpentinite	Ub	15	L.B.	R	C	M	W	Secondary forest	8.07	744	7798	35.24	5170	25
7	T204	1541.63	4689.60	Kiabau	serpentinite	Ub	15	R.B.	R	C	M	W	Secondary forest	10.76	529	7690	38.46	3056	35
8	T209	1544.50	4698.14	Kiabau	serpentinite	Ub	20	B.G.	R	C	M	W	Bush	12.98	84	4771	28.86	958	10
9	G214	1545.85	4702.77	Kiabau	serpentinite	Ub	30	L.B.	R	C	M	W	Secondary forest	2.17	541	9054	22.71	7587	30
10	G215	1545.40	4702.60	Kiabau	serpentinite	Ub	20	L.B.	R	C	M	W	Secondary forest	2.91	646	12450	36.17	5350	50
11	G216	1544.50	4701.80	Kiabau	serpentinite	Ub	20	L.B.	R	C	M	W	Secondary forest	6.96	928	8957	45.38	5426	25
12	G205	1555.25	4710.65	Terusan Sapi	serpentinite	Ub	10	L.R.B.	R	C	M	W	Plantation	9.53	120	5425	35.67	1707	20
13	G208	1552.65	4708.80	Terusan Sapi	serpentinite	Ub	20	B.	R	C	M	W	Secondary forest	7.46	474	6200	29.79	5485	15
14	N211	1552.32	4707.18	Terusan Sapi	peridotite	Ub	30	R.B.	R	C	F	W	Secondary forest	10.04	536	6454	33.74	3141	25
15	N210	1550.95	4706.32	Terusan Sapi	harzburgite	Ub	10	D.R.B.	R	C	M	W	Secondary forest	6.65	470	5124	26.52	4473	20
16	N209	1550.45	4706.50	Terusan Sapi	harzburgite	Ub	20	B.	R	C	M	W	Secondary forest	7.17	451	7666	36.65	3740	20
17	G211	1542.13	4708.73	Terusan Sapi	serpentinite	Ub	15	L.B.	R	C	M	W	Secondary Jungle	5.26	457	10550	43.89	3246	30
18	N216	1544.95	4713.52	Terusan Sapi	serpentinite	Ub	30	L.B.	R	C	F	W	Plantation	10.09	32	209	6.99	304	< 5
19	N203	1543.72	4713.55	Terusan Sapi	serpentinite	Ub	30	R.	R	C	M	W	Secondary forest	9.84	215	1221	19.79	1961	5
20	N215	1542.50	4714.91	Terusan Sapi	serpentinite	Ub	30	B.	R	C	M	W	Secondary forest	5.08	1087	7618	43.34	5858	25
21	N214	1539.72	4718.05	Terusan Sapi	serpentinite	Ub	30	L.B.	R	C	M	W	Secondary forest	7.00	1014	7650	39.43	5101	20
22	N213	1537.97	4717.80	Terusan Sapi	serpentinite	Ub	30	R.B.	R	C	F	W	Secondary forest	8.24	475	4270	34.06	4957	25

*1 Gravel: Many (M), Few (F), Rare or none (R)
*2 Grain size: Sandy (S), Clayey (C)
*3 Topography: Steep (S), Moderate (M), Flat (F)
*4 Humidity: Dry (D), Wet (W)

Appendix 26

Flight record of heliborne
geophysical survey

Flight Record (FY1990) No. 1

Date	Weather	Flight Line-km	Reference
Dec.12	Rain	0.0	From Kota Kinabalu to Ranau
Dec.13	Cloudy/Fine	108.5	Start Kinabalu Flight
Dec.14	Cloudy/Rain	0.0	
Dec.15	Rain	0.0	
Dec.16	Rain	0.0	
Dec.17	Rain/Cloudy	56.2	
Dec.18	Cloudy/Rain	0.0	
Dec.19	Fog	175.0	
Dec.20	Rain/Cloudy	212.0	
Dec.21	Fog/Fine	211.0	
Dec.22	Fog	189.0	
Dec.23	Fog	108.0	
Dec.24	Fog	86.5	
Dec.25	Fog/Rain	100.0	
Dec.26	Fog	0.0	
Dec.27	Fog/Rain	0.0	
Dec.28	Rain	0.0	
Dec.29	Fog/Fine	119.0	
Dec.30	Rain	0.0	
Dec.31	Fog	105.5	
Jan. 1	Fog	0.0	
Jan. 2	Fog	124.6	
Jan. 3	Fog	0.0	
Jan. 4	Fog	0.0	
Jan. 5	Fog	0.0	
Jan. 6	Fog	30.0	Complete Kinabalu Flight
Jan. 7	Cloudy	0.0	Ranau ⇨Kota Kinabalu ⇨Tawau Tawau
Jan. 8	Cloudy	0.0	Helicopter Check
Jan. 9	Fine	0.0	- do -
Jan.10	Cloudy	0.0	- do -
Jan.11	Cloudy	0.0	- do -
Jan.12	Fine	206.5	Start Semporna Flight
Jan.13	Cloudy	354.0	
Jan.14	Fine	350.5	
Jan.15	Fine	379.5	
	Sub Total	2,915.8	
	Total	2,915.8	

Flight Record (FY1990) No. 2

Date	Weather	Flight Line-km	Reference
Jan.16	Fine	354.0	
Jan.17	Fine	354.0	
Jan.18	Cloudy	295.0	
Jan.19	Rain	0.0	
Jan.20	Cloudy/Rain	118.0	
Jan.21	Cloudy	177.0	
Jan.22	Fine	434.8	
Jan.23	Rain/Fine	253.0	
Jan.24	Rain	0.0	
Jan.25	Rain	0.0	
Jan.26	Rain	0.0	
Jan.27	Rain	0.0	
Jan.28	Cloudy/Rain	0.0	
Jan.29	Rain	0.0	
Jan.30	Rain	0.0	
Jan.31	Rain	0.0	
Feb. 1	Rain	0.0	
Feb. 2	Cloudy	0.0	
Feb. 3	Cloudy	102.0	
Feb. 4	Rain	0.0	
Feb. 5	Fine	289.0	
Feb. 6	Fine	305.0	
Feb. 7	Cloudy	10.0	
Feb. 8	Fine	238.0	Complete Semporna Flight
Feb. 9	Cloudy	0.0	Tawau ⇒Segama
Feb.10	Fine	0.0	Helicopter check
Feb.11	Cloudy	0.0	- do - Tawau
Feb.12	Cloudy	188.7	Start Segama Flight
Feb.13	Cloudy	273.0	
Feb.14	Cloudy	104.1	
Feb.15	Cloudy	134.8	
Feb.16	Cloudy	69.4	
Feb.17	Cloudy	101.1	
Feb.18	Cloudy	296.6	
Feb.19	Rain	0.0	
Sub Total		4,097.5	
Total		7,013.3	

Flight Record (FY1990) No. 3

Date	Weather	Flight Line-km	Reference
Feb.20	Rain	0.0	
Feb.21	Cloudy	33.7	
Feb.22	Cloudy	235.9	
Feb.23	Cloudy	293.3	
Feb.24	Cloudy	69.4	
Feb.25	Cloudy	69.4	
Feb.26	Cloudy	69.4	
Feb.27	Fine	208.2	
Feb.28	Cloudy	138.8	
Mar. 1	Cloudy	0.0	Helicopter Check
Mar. 2	Cloudy	0.0	- do -
Mar. 3	Cloudy	0.0	- do -
Mar. 4	Fine	0.0	- do -
Mar. 5	Fine	269.6	
Mar. 6	Cloudy	337.0	
Mar. 7	Cloudy	50.0	
Mar. 8	Cloudy	150.0	
Mar. 9	Cloudy	200.0	
Mar.10	Cloudy	200.0	
Mar.11	Cloudy	300.0	
Mar.12	Fog/Fine	101.1	
Mar.13	Fine	303.3	
Mar.14	Cloudy	134.8	
Mar.15	Cloudy	337.6	
Mar.16	Fog/Cloudy	134.8	
Mar.17	Fog/Cloudy	101.1	
Mar.18	Fog/Cloudy	268.2	
Mar.19	Fog/Rain	180.0	Complete Segama Flight
Mar.20	Rain		Segama⇒Kota Kinabalu
Sub Total		4,185.6	
Total		10,919.0	

Flight Record (FY1991) No. 1

Date	Weather	Flight Line-km	Reference
Sep.24	Rain		Kota Kinabalu to Kundasang
Sep.25	Rain	0.0	Start Labuk/Southern Kinabalu Flight
Sep.26	Rain	0.0	
Sep.27	Fine/Rain	111.1	
Sep.28	Fine/Rain	111.1	
Sep.29	Fine/Rain	111.1	
Sep.30	Fog/Fine/Rain	156.4	
Oct.01	Fog/Rain	0.0	
Oct.02	Fine/Rain	144.2	
Oct.03	Rain	0.0	
Oct.04	Fine/Rain	251.7	
Oct.05	Rain	0.0	
Oct.06	Rain	0.0	
Oct.07	Fine	216.7	
Oct.08	Fine	103.8	
Oct.09	Fog/Rain	0.0	
Oct.10	Rain	0.0	
Oct.11	Cloudy	0.0	
Oct.12	Fine	311.4	
Oct.13	Fine	311.4	
Oct.14	Fine	311.4	
Oct.15	Fine	207.6	
Oct.16	Fine	186.7	
Oct.17	Fine	103.8	
Oct.18	Fine	203.4	
Oct.19	Fine	292.6	
Oct.20	Rain	0.0	
Oct.21		---	Helicopter 100hr Check
Oct.22		---	- do -
Oct.23	Fine	231.7	
Oct.24	Fine	279.1	
Oct.25	Fine	408.0	
Oct.26	Rain·Haze	0.0	Waiting for rain & haze
Oct.27	Rain·Haze	0.0	- do -
Sub Total		4,053.2	
Total		4,053.2	

Flight Record (FY1991) No. 2

Date	Weather	Flight Line-km	Reference
Oct.28	Fine	383.1	
Oct.29	Fine	389.6	
Oct.30	Fine	434.2	
Oct.31	Rain·Haze	0.0	Waiting for Rain & Haze
Nov.01	Fine	488.7	
Nov.02	Fine	118.4	
Nov.03	Fine	192.5	
Nov.04	Rain	0.0	
Nov.05	Fine	570.9	
Nov.06	Rain	0.0	
Nov.07	Fine	299.2	
Nov.08	Rain	0.0	Helicopter: 50hr Check
Nov.09	Fine	149.5	
Nov.10	Rain	0.0	
Nov.11	Fine	337.0	
Nov.12	Cloudy	0.0	
Nov.13	Rain	0.0	
Nov.14	Rain	0.0	
Nov.15	Fine	151.6	
Nov.16	Fine	133.3	
Nov.17	Fine	207.4	
Nov.18	Rain	0.0	
Nov.19	Rain	0.0	
Nov.20	Fine	92.8	Start Northern Kinabalu Flight
Nov.21	Rain	0.0	
Nov.22	Cloudy	0.0	
Nov.23	Rain	0.0	
Nov.24	Cloudy	0.0	
Nov.25	Fine	444.8	
Nov.26	Fine	444.8	
Nov.27	Fine	333.6	
Nov.28	Fine	444.8	
Nov.29	Cloudy	0.0	
Nov.30	Rain	0.0	
	Sub Total	5,616.2	
	Total	9,669.4	

Flight Record (FY1991) No. 3

Date	Weather	Flight Line-km	Reference
Dec.01	Rain	0.0	
Dec.02	Fine	0.0	Halt for poor GPS signal
Dec.03	Rain	0.0	
Dec.04	Fog	0.0	
Dec.05	Fog	0.0	
Dec.06	Fog	0.0	
Dec.07	Fine	111.2	
Dec.08	Rain	0.0	
Dec.09	Cloudy	0.0	
Dec.10	Rain	0.0	
Dec.11	Fine	137.1	
Dec.12	Cloudy	0.0	Test Flight(Second System)
Dec.13	Rain	0.0	
Dec.14	Rain	0.0	
Dec.15	Rain	0.0	First System: 300hr Check
Dec.16	Fine	277.5	
Dec.17	Fine	27.7	Poor GPS Signal
Dec.18	Rain	0.0	
Dec.19	Fine	336.8	
Dec.20	Fine	374.5	
Dec.21	Fine	353.1	
Dec.22	Rain	0.0	Finish First System 300hr Check
Dec.23	Rain	0.0	
Dec.24	Rain	0.0	
Dec.25	Rain	0.0	
Dec.26	Rain	0.0	
Dec.27	Rain	0.0	
Dec.28	Fine	463.5	
Dec.29	Fine	146.75	
Dec.30	Fine	186.25	
Dec.31	Fine	620.75	
Jan.01	Rain	0.0	
Jan.02	Rain	0.0	
Jan.03	Rain	0.0	
	Sub Total	3,121.15	
	Total	12,790.55	

Flight Record (FY1991) No. 4

Date	Weather	Flight Line-km	Reference
Jan.04	Fine	63.0	
Jan.05		----	Move to Northern Semporna
Jan.06	Rain	0.0	Start Northern Semporna Flight
Jan.07	Fine	643.0	
Jan.08	Fog	1,043.8	
Jan.09	Fog	843.4	
Jan.10	Fine	444.3	Finish Northern Semporna Flight
Jan.11		----	
Jan.12	Rain	0.0	Restart Southern & Northern Kinabalu
Jan.13	Rain	0.0	
Jan.14	Fine	332.4	
Jan.15	Rain	0.0	
Jan.16	Rain	0.0	
Jan.17	Fine	234.0	
Jan.18	Fine	242.0	Finish Norhtern Kinabalu Flight
Jan.19	Rain	0.0	
Jan.20	Fine/Cloudy	18.0	Finish Southern Kinabalu Flight
Jan.21			Demobilization
Sub Total		3,868.85	
Total		16,659.4	

Appendix 27

In-situ magnetic susceptibility and radiometric activity

(1)

Ser. No.	Location No.	Area *1	Geologic unit	Lithology	Total Count (cps)	K+U+Th (cps)	U+Th (cps)	Th (cps)	κ ($x10^{-3}SI$)	Remarks
1	SG-09	C	P_4Km	Sandstone	88.7	2.29	1.49	0.74	0.17	
2	SG-27	C	P_4Km	Sandstone	80.3	2.03	1.40	0.55	0.07	
3	SG-29	C	P_4Km	Sandstone	50.8	1.43	0.83	0.44	0.30	
4	SG-26	C	P_4Km	Basaltic Lava	32.6	0.96	0.82	0.62	28.4	
5	SG-28	C	P_4Km	Tuff. Sandstone	67.8	1.72	1.05	0.67	2.92	
6	SP-28	D	P_4Kg	Limestone	17.7	0.90	0.70	0.60	0.04	
7	SP-21	D	P_4Kg	Tuff	33.8	1.36	1.01	0.82	7.87	
8	SP-22	D	P_4Kg	Tuff	33.8	1.36	1.01	0.82	17.1	
9	LB-07	B	P_4Gr	Sandstone	96.0	1.95	1.31	0.59	0.36	
10	LB-08	B	P_4Gr	Sandstone	100.	2.34	1.56	0.71	0.29	
11	KB-02	A	P_2Cr	Sandstone	73.2	2.31	1.25	0.81	0.12	
12	KB-05	A	P_2Cr	Sandstone	92.1	2.34	1.43	0.70	0.13	
13	KB-07	A	P_2Cr	Sandstone	107.	2.76	1.69	0.52	0.17	
14	KB-16	A	P_2Cr	Sandstone	115.	3.23	1.60	0.84	0.10	
15	KB-17	A	P_1Ts	Sandstone	119.	3.33	1.81	0.77	0.22	
16	KB-18	A	P_1Ts	Sandstone	195.	5.11	2.39	0.84	0.16	
17	KB-20	A	P_1Ts	Sandstone	148.	4.40	1.98	0.94	0.14	
18	KB-21	A	P_1Ts	Sandstone	105.	3.15	1.87	1.10	0.08	
19	KB-22	A	P_1Ts	Sandstone	128.	4.01	2.36	0.92	0.12	
20	KB-23	A	P_1Ts	Sandstone	140.	4.22	2.23	0.82	0.12	
21	KB-24	A	P_1Ts	Sandstone	118.	3.96	2.04	0.77	0.15	
22	KB-30	A	P_1Ts	Sandstone	158.	4.64	2.45	0.87	0.13	
23	KB-31	A	P_1Ts	Shale	168.	5.14	2.43	0.89	0.27	
24	KB-32	A	P_1Ts	Shale	184.	5.12	2.13	0.80	0.19	
25	KB-33	A	P_1Ts	Shale	159.	4.14	2.14	0.91	0.23	

*1 A; Kinabalu area B; Labuk area C; Segama area D; Semporna area

(2)

Ser. No.	Location No.	Area *1	Geologic unit	Lithology	Total Count (cps)	K+U+Th (cps)	U+Th (cps)	Th (cps)	κ (x 10^{-3}SI)	Remarks
26	KB-34	A	P_1Ts	Philite	184.	5.12	2.49	1.07	0.21	
27	KB-35	A	P_1Ts	Philite	189.	5.42	2.87	1.12	0.25	
28	KB-36	A	P_1Ts	Philite	201.	5.99	2.44	1.12	0.11	
29	KB-37	A	P_1Ts	Philite	180.	4.89	2.47	1.03	0.21	
30	KB-38	A	P_1Ts	Philite	222.	5.82	3.01	0.92	0.33	
31	KB-39	A	P_1Ts	Philite	148.	4.48	2.13	1.03	0.12	
32	KB-40	A	P_1Ts	Philite	169.	4.73	2.67	1.13	0.20	
33	KB-41	A	P_1Ts	Philite	209.	5.13	2.65	0.81	0.10	
34	SG-05	C	KpCs	Basalt	9.23	0.86	0.70	0.65	6.55	
35	SG-06	C	KpCs	Basalt	9.03	0.88	0.83	0.62	0.51	
36	LB-01	B	KpCs	Basalt	14.2	0.96	0.84	0.57	4.57	
37	LB-02	B	KpCs	Basalt	21.8	1.23	0.75	0.53	14.0	
38	LB-03	B	KpCs	Basalt	11.4	0.75	0.77	0.53	21.1	
39	LB-06	B	KpCs	Basalt	16.3	0.75	0.88	0.77	13.6	
40	SG-07	C	KpCs	Chert	23.7	0.94	0.70	0.64	0.16	
41	SG-08	C	KpCs	Chert	14.6	1.03	0.73	0.71	2.48	
42	LB-05	B	KpCs	Chert	20.8	1.02	0.98	0.75	0.08	
43	SG-22	C	KpCs	Sandstone	100.	3.15	1.70	0.70	0.23	
44	SG-24	C	KpCs	Sandstone	92.2	2.61	1.51	0.80	0.14	
45	SG-25	C	KpCs	Sandstone	95.4	2.99	1.67	0.67	0.13	
46	SG-31	C	KMb	Limestone	11.7	0.41	0.37	0.24	0.03	
47	SP-04	D	I_5	Basalt	78.2	2.05	1.14	0.49	1.51	
48	SP-05	D	I_5	Basalt	55.5	2.00	1.27	0.78	5.34	
49	SP-06	D	I_5	Basalt	83.8	2.45	1.47	0.75	9.77	
50	SP-19	D	I_5	Basalt	77.4	3.15	1.49	0.82	6.24	

*1 A; Kinabalu area B; Labuk area C; Segama area D; Semporna area

Ser. No.	Location No.	Area *1	Geologic unit	Lithology	Total Count (cps)	K+U+Th (cps)	U+Th (cps)	Th (cps)	κ (x 10^{-3}SI)	Remarks
51	SP-16	D	I_5	Dacite	74.7	2.37	1.56	0.83	0.17	
52	SP-17	D	I_6	Dacite	94.5	3.03	1.63	0.81	31.4	
53	SP-18	D	I_6	Dacite	115.	3.47	1.45	0.60	27.1	
54	SP-01	D	I_3	Microdiorite	111.	3.33	1.92	0.82	35.9	
55	SP-02	D	I_3	Microdiorite	95.5	2.87	1.50	0.82	31.1	
56	SP-03	D	I_3	Microdiorite	149.	3.65	1.79	0.80	31.0	
57	SP-07	D	I_3	Andesite	72.1	2.47	1.45	0.65	14.4	
58	SP-10	D	I_3	Andesite	111.	2.37	1.25	0.65	18.4	
59	SP-11	D	I_3	Andesite	83.9	2.23	1.51	0.82	16.3	
60	SP-12	D	I_3	Andesite	74.5	2.29	1.38	0.57	0.10	
61	SP-13	D	I_3	Andesite	65.1	1.75	1.06	0.68	24.5	
62	SP-14	D	I_3	Andesite	89.3	1.98	1.37	0.61	27.4	
63	SP-20	D	I_3	Andesite	53.6	2.06	1.19	0.75	14.4	
64	SP-24	D	I_3	Andesite	56.0	2.64	1.17	0.81	10.8	
65	SP-25	D	I_3	Andesite	134.	3.95	2.17	0.99	18.7	
66	SP-27	D	I_3	Andesite	93.4	2.05	1.29	0.76	4.59	
67	SP-08	D	I_3	Agglomerate	73.2	2.45	1.45	0.83	16.2	
68	SP-09	D	I_3	Agglomerate	72.7	2.28	1.31	0.77	7.10	
69	SP-26	D	I_3	Andesite	91.9	1.97	1.27	0.61	12.6	
70	KB-03	A	I_2	Granodiorite	173.	4.38	2.28	0.83	1.51	
71	KB-04	A	I_2	Granodiorite	176.	4.42	1.97	0.80	1.67	
72	KB-10	A	I_2	Adamellite	283.	5.38	2.97	0.80	1.16	
73	KB-13	A	I_2	Adamellite	140.	3.81	1.99	1.32	0.83	Ore
74	KB-14	A	I_2	Adamellite	242.	7.29	2.84	1.12	2.63	Ore
75	KB-15	A	I_2	Adamellite	162.	4.42	2.19	1.07	0.33	

*1 A; Kinabalu area B; Labuk area C; Segama area D; Semporna area

Ser. No.	Location No.	Area *1	Geologic unit	Lithology	Total Count (cps)	K+U+Th (cps)	U+Th (cps)	Th (cps)	κ (x 10^{-3}SI)	Remarks
76	MM-06	A	I_2	Adamellite	132.	3.98	1.80	1.04	31.4	Ore
77	MM-07	A	I_2	Adamellite	137.	4.29	2.13	0.97	3.12	Ore
78	MM-08	A	I_2	Adamellite	208.	5.79	2.45	0.98	1.23	Ore
79	KB-11	A	I_2	Biotite Hornfels	193.	5.28	1.90	1.10	34.0	Ore
80	MM-04	A	I_2	Biotite Hornfels	216.	6.02	2.15	0.94	19.3	Ore
81	MM-05	A	I_2	Biotite Hornfels	191.	5.55	2.17	0.88	2.97	Ore
82	SG-01	C	I_1	Serpentinite	4.90	0.83	0.66	0.59	96.5	
83	SG-02	C	I_1	Serpentinite	4.97	0.95	0.75	0.71	24.9	
84	SG-03	C	I_1	Serpentinite	6.00	0.97	0.81	0.61	28.2	
85	SG-04	C	I_1	Serpentinite	4.03	0.67	0.61	0.53	1.89	
86	SG-23	C	I_1	Serpentinite	11.3	0.90	0.78	0.75	23.1	
87	KB-06	A	I_1	Serpentinite	13.6	0.77	0.86	0.74	5.83	
88	KB-08	A	I_1	Serpentinite	6.70	0.90	0.84	0.72	23.0	
89	KB-09	A	I_1	Serpentinite	13.8	0.89	0.85	0.73	15.0	
90	KB-12	A	I_1	Serpentinite	41.0	1.49	0.88	0.67	26.2	Ore
91	LB-04	B	I_1	Serpentinite	8.50	0.81	0.71	0.74	16.2	
92	LB-09	B	I_1	Serpentinite	6.00	0.82	0.64	0.65	21.1	
93	LB-10	B	I_1	Serpentinite	6.80	0.62	0.68	0.68	8.60	
94	LB-11	B	I_1	Serpentinite	7.20	0.79	0.75	0.72	10.3	
95	MM-10	A	I_1	Serpentinite	80.1	2.96	0.77	0.57	23.7	Ore
96	SG-18	C	I_1	Gabbro	5.50	0.88	0.77	0.63	163.	
97	SG-19	C	I_1	Gsbbro	5.00	0.79	0.69	0.71	34.6	
98	SG-20	C	I_1	Gabbro	7.80	0.98	0.77	0.65	0.60	
99	SG-21	C	I_1	Gabbro	36.5	1.35	0.91	0.70	4.47	
100	SG-10	C	Cb	Schist	11.2	1.00	0.77	0.61	0.34	

*1 A; Kinabalu area B; Labuk area C; Segama area D; Semporna area

(5)

Ser. No.	Location No.	Area *1	Geologic unit	Lithology	Total Count (cps)	K+U+Th (cps)	U+Th (cps)	Th (cps)	κ (x 10^{-3}SI)	Remarks
101	SG-15	C	Cb	Schist	18.8	1.09	0.93	0.77	1.05	
102	SG-16	C	Cb	Schist	17.7	1.02	0.92	0.82	0.52	
103	SG-14	C	Cb	Gneiss	14.6	1.01	0.75	0.82	2.28	
104	SG-17	C	Cb	Gneiss	45.0	1.33	1.06	0.76	0.47	
105	SG-11	C	Cb	Amphibolite	48.0	1.75	1.35	0.63	0.64	
106	SG-12	C	Cb	Amphibolite	17.8	1.09	0.89	0.73	11.0	

*1 A; Kinabalu area B; Labuk area C; Segama area D; Semporna area

Appendix 28

Laboratory magnetic susceptibility and radiometric activity for the Segama and Semporna areas

Labotratory magnetic susceptibility and radiometric activity of the Segama area (1)

Ser. No.	Sample No.	UTM Coordinates X (km)	Y (Km)	1:50,000 Topographic Sheet	Sample Location	Radiometric Activity (CPS) T.C.	K+U+Th	U+Th	Th	Magnetic Susceptibility ($x10^{-6}$ CGSemu)	Lithology	Geolo. Unit
1	G056	1428.45	4723.85	Gunong Moritok	S. Imbak	4.51	0.69	0.54	0.36	64	sandstone	P_4Km
2	K053	1437.30	4728.75	G. Moritok	S. Imbak	0.55	0.85	0.51	0.33	273	granodiorite	Ub
3	K054	1437.30	4728.75	G. Moritok	S. Imbak	3.11	0.01	0.29	0.26	111	sandstone	P_4Km
4	K055	1437.30	4728.75	G. Moritok	S. Imbak	2.91	0.72	0.68	0.30	68	sandstone	P_4Km
5	J052	1432.90	4749.40	Ulu Segama	S. Segama	3.66	0.50	0.68	0.37	2450	sheared ultramafic	Ub
6	P040	1433.45	4766.90	S. Ulu Bole	S. Beruang	4.78	0.64	0.46	0.12	667	amphybolite	Cb
7	P041	1434.40	4766.95	S. Ulu Bole	S. Beruang	4.97	0.26	0.37	0.34	5968	gneiss	Cb
8	K031	1432.90	4767.75	S. Ulu Bole	S. Beruang	1.17	0.63	0.40	0.43	110	amphibolite	Cb
9	J031	1437.70	4771.45	S. Ulu Bole	S. Ulu Bole	2.07	0.88	0.34	0.53	1099	schist	Cb
10	J032	1437.90	4771.80	S. Ulu Bole	S. Ulu Bole	3.97	0.54	0.23	0.35	84	granodiorite	Cb
11	J014	1435.45	4776.70	S. Ulu Bole	S. Ulu Bole	1.93	0.89	0.69	0.47	306	schist	Cb
12	J027	1435.10	4782.25	S. Ulu Bole	S. Ulu Bole	1.75	0.37	0.10	0.35	841	gabbro	Ub
13	N012	1437.05	4783.30	S. Ulu Bole	S. Juak	2.29	0.24	0.64	0.04	179	sandstone	KPCs
14	J021	1437.50	4784.05	S. Ulu Bole	S. Juak	3.28	0.84	0.57	0.24	1096	basalt	KPCs
15	N013	1434.85	4786.65	S. Ulu Bole	-	8.59	0.88	0.50	0.40	72	chert	KPCs
16	P072	1446.70	4718.60	G. Moritok	S. Kuamut	1.31	0.22	0.79	0.49	300	volcanic breccia	KPCs
17	J057	1444.25	4720.10	G. Moritok	S. Imbak	3.13	0.63	0.84	0.00	272	sandstone	KPCs
18	N086	1445.20	4738.65	Ulu Segama	S. Karangon	7.24	0.00	0.48	0.21	63	sandstone	P_4Km
19	N088	1445.25	4737.90	Ulu Segama	S. Karangon	6.87	0.63	0.23	0.44	58	shale	P_4Km
20	N084	1445.70	4739.40	Ulu Segama	S. Karangon	4.22	0.57	0.49	0.24	1302	dolerite	Ub
21	N089	1446.40	4737.30	Ulu Segama	S. Karangon	5.26	1.58	1.07	0.44	1026	dolerite	Ub
22	N093	1442.70	4743.45	Ulu Segama	S. Danum	1.41	0.49	0.86	0.61	77	sandstone	P_4Km
23	N095	1442.70	4744.65	Ulu Segama	S. Danum	1.64	0.84	0.43	0.14	54	sandstone	P_4Km
24	N094	1442.65	4744.85	Ulu Segama	S. Danum	2.28	0.77	0.57	0.41	72	chert	KPCs
25	P055	1442.40	4752.10	Ulu Segama	S. Segama	4.76	0.32	0.78	0.15	2555	basic rock	Ub
26	G039	1442.50	4765.00	S. Ulu Bole	S. Segama	2.50	0.93	0.17	0.39	786	chl. dolerite	Cb
27	K035	1440.50	4765.70	S. Ulu Bole	S. Segama	1.42	0.89	0.26	0.20	1593	diorite	Cb
28	N110	1449.60	4776.65	S. Ulu Bole	S. Bole	0.92	0.38	0.16	0.22	174	peridotite	Ub
29	N111	1449.60	4776.65	S. Ulu Bole	S. Bole	3.74	0.30	0.59	0.45	4935	gabbro	Ub
30	J024	1445.10	4784.65	S. Ulu Bole	S. Juak	3.03	0.52	0.51	0.38	2401	peridotite	Ub

Labotratory magnetic susceptibility and radiometric activity of the Segama area (2)

Ser. No.	Sample No.	UTM Coordinates X (km)	UTM Coordinates Y (Km)	1:50,000 Topographic Sheet	Sample Location	Radiometric Activity (CPS) T.C.	K+U+Th	U+Th	Th	Magnetic Susceptibility ($x10^{-6}$ CGSemu)	Lithology	Geolo. Unit
31	Y021	1448.30	4784.75	S. Ulu Bole	S. Kawag	0.59	0.59	0.28	0.39	2432	sheared peridotite	Ub
32	Y020	1447.55	4786.15	S. Ulu Bole	S. Kawag	5.95	1.06	0.17	0.52	3897	granodiorite	Cb
33	K041	1450.60	4740.10	Ulu Segama	S. Malubuk	2.71	0.50	0.43	0.23	1068	gabbro	Ub
34	Y032	1450.00	4767.95	S. Ulu Bole	S. Segama	5.60	1.01	0.17	0.41	83	sandstone	P_4Km
35	Y037	1450.85	4770.75	S. Ulu Bole	-	4.65	0.09	0.31	0.32	53	chert	KPCs
36	N112	1450.35	4773.75	S. Ulu Bole	S. Bole	4.32	0.24	0.54	0.51	856	sandstone	P_4Km
37	N113	1450.35	4773.75	S. Ulu Bole	S. Bole	1.33	0.43	0.43	0.32	88	sandstone	P_4Km
38	N106	1450.90	4783.00	S. Ulu Bole	S. Kawag	4.38	0.78	0.12	0.17	922	green schist	Cb
39	N105	1450.80	4783.25	S. Ulu Bole	S. Kawag	2.91	0.84	0.52	0.06	98	phyllite	Cb
40	K043	1451.30	4737.70	Ulu Segama	S. Malubuk	2.35	0.85	0.54	0.33	4603	basalt	KPCs
41	K040	1451.25	4739.55	Ulu Segama	S. Malubuk	5.00	0.13	0.52	0.25	495	gabbro	Ub
42	Y035	1451.00	4770.40	S. Ulu Bole	-	5.37	0.41	0.35	0.51	67	sandstone	P_4Km
43	N109	1451.35	4782.70	S. Ulu Bole	S. Kawag	0.77	0.77	0.57	0.43	6122	ultramafic rock	Ub
44	N108	1451.10	4782.90	S. Ulu Bole	S. Kawag	1.98	1.53	0.44	0.44	2391	amphibolite	Cb
45	N107	1451.00	4783.00	S. Ulu Bole	S. Kawag	4.21	0.10	0.46	0.34	766	amphibolite	Cb
46	N104	1452.65	4746.60	S. Malua	S. Berseh	1.65	0.60	0.55	0.22	344	dolerite	Ub
47	N103	1452.80	4746.75	S. Malua	S. Berseh	3.57	0.94	0.31	0.55	348	gabbro	Ub
48	N101	1452.70	4747.75	S. Malua	S. Berseh	0.38	0.97	0.30	0.21	1477	siliceous shale	KPCs
49	N099	1452.60	4751.40	S. Malua	S. Berseh	4.03	0.59	0.48	0.08	2434	gabbro	Ub
50	N102	1453.00	4746.25	S. Malua	S. Berseh	2.86	0.22	0.27	0.61	1107	siliceous shale	KPCs
51	J037	1453.70	4781.05	S. Bole	S. Kawag	2.83	0.80	0.39	0.20	2490	gneiss	Cb
52	G053	1454.50	4733.35	S. Malua	S. Malubuk	2.45	0.67	0.63	0.41	66	sandstone	KPCs

Labotratory magnetic susceptibility and radiometric activity of the Semporna area (1)

Ser. No.	Sample No.	UTM Coordinates X (km)	UTM Coordinates Y (Km)	1:50,000 Topographic Sheet	Sample Location	Radiometric Activity (CPS) T.C.	K+U+Th	U+Th	Th	Magnetic Susceptibility ($x10^{-6}$ CGSemu)	Lithology	Geolo. Unit
1	M060	1417.24	4717.72	Sungai Tiagau	S. Gukuam	7.10	1.09	0.46	0.57	61	shale	P_4Kl
2	M061	1423.10	4722.05	Sungai Tiagau	—	4.71	0.73	0.76	0.02	71	sandstone	P_4Km
3	H058	1404.10	4724.70	Sungai Tiagau	S. Mawing	2.80	0.94	0.55	0.26	70	siltstone	P_4Kl
4	H048	1420.22	4747.45	S. Umas Umas	S. Muntai	6.35	0.70	0.24	0.12	58	sandstone	P_4Km
5	M041	1418.30	4739.87	S. Umas Umas	S. Gumbal	6.17	0.50	0.21	0.39	99	meta-gabbro	Ub
6	H060	1401.15	4744.22	S. Umas Umas	S. Gukuam	4.08	1.00	0.80	0.32	89	conglomerate	P_4Km
7	M018	1413.55	4769.50	S. Tingkayu	S. Binuang	1.16	0.57	0.38	0.25	51	tuffaceous s.s.	P_4Km
8	M015	1407.95	4767.83	S. Tingkayu	S. Merotai B	6.36	0.50	0.71	0.69	55	sandstone	P_4Km
9	M022	1405.34	4766.50	S. Tingkayu	S. Merotai B	5.91	0.89	0.22	0.51	3341	tuffaceous s.s.	P_4Km
10	M023	1400.90	4768.90	S. Tingkayu	S. Merotai B	1.83	1.04	0.37	0.50	772	mudstone	P_4Km
11	M033	1398.20	4767.85	S. Tingkayu	S. Merotai B	5.91	0.50	0.27	0.27	402	mudstone	P_4Km
12	M034	1398.06	4768.32	S. Tingkayu	S. Merotai B	4.07	0.86	0.26	0.16	4497	andesite	I_1
13	B052	1420.80	4770.55	S. Tingkayu	S. Tingkayu	5.89	0.79	0.32	0.41	53	sandstone	P_4Km
14	H039	1420.02	4778.70	S. Tingkayu	S. Tingkayu	2.96	0.16	0.25	0.05	90	sandstone	P_4Km
15	M021	1411.33	4775.50	S. Tingkayu	S. Binuang	4.14	1.18	0.11	0.43	63	fine sandstone	P_4Km
16	M009	1393.70	4774.70	Tawau North	S. Merotai B	4.98	0.60	0.51	0.24	4503	andesite	I_1
17	M006	1391.00	4774.40	Tawau North	S. Merotai K	7.21	0.56	0.11	0.14	43	altered andesite	I_1
18	B007	1388.45	4773.55	Tawau North	—	4.45	0.46	0.32	0.08	2205	basalt	I_2
19	T061	1384.20	4770.45	Tawau North	S. Merotai K	2.78	0.06	0.77	0.50	557	basalt	I_2
20	B004	1385.65	4779.80	Tawau North	S. Tawau	3.30	0.96	0.56	0.25	1632	coarse tuff	I_1
21	H042	1420.38	4786.40	S. Tingkayu	S. Tingkayu	2.34	0.62	1.03	0.40	3107	green rock	KPCs
22	M030	1412.25	4786.30	S. Tingkayu	S. Kalumpang	3.37	0.59	0.00	0.52	1934	tuffaceous s.s.	P_4Kg
23	M031	1405.89	4787.05	S. Tingkayu	S. Malati	3.86	0.95	0.31	0.25	62	tuffaceous s.s.	P_4Km
24	M032	1405.08	4786.05	S. Tingkayu	S. Malati	0.00	0.62	0.15	0.13	1388	andesite	I_1
25	T060	1392.10	4783.56	Tawau North	S. Balung	3.77	0.70	0.47	0.46	3494	andesite	I_1
26	H011	1382.05	4784.80	Tawau North	S. Apas Kiri	5.80	1.37	0.69	0.35	2487	andesite	I_2
27	T049	1381.58	4788.37	Apas-Balang	S. Apas	5.61	0.55	0.00	0.38	2167	andesite	I_2
28	H025	1418.90	4798.55	Mostyn	S. Tingkayu	3.65	0.74	0.25	0.71	352	basalt	I_2
29	T065	1411.55	4794.98	Mostyn	S. Kalumpang	0.47	0.59	0.39	0.44	86	siltstone	P_4Kg
30	T066	1408.63	4797.80	Mostyn	S. Kalumpang	0.59	0.23	0.42	0.36	1386	coarse sandstone	P_4Kg

Labotratory magnetic susceptibility and radiometric activity of the Semporna area (2)

Ser. No.	Sample No.	UTM Coordinates X (km)	UTM Coordinates Y (Km)	1:50,000 Topographic Sheet	Sample Location	Radiometric Activity (CPS) T.C.	K+U+Th	U+Th	Th	Magnetic Susceptibility ($x10^{-6}$ CGSemu)	Lithology	Geolo. Unit
31	T034	1399.35	4790.95	Mostyn	S. Mantri	6.67	0.61	0.55	0.53	2984	andesite w/pyrite	I_1
32	T033	1396.65	4790.55	Mostyn	S. Mantri	3.35	0.78	0.96	0.42	73	altered rock w/py	I_1
33	T010	1392.95	4792.46	Apas-Balang	S. Balung	3.58	0.60	0.58	0.21	2798	medium tuff	I_1
34	T009	1392.92	4793.59	Apas-Balang	S. Balung	7.94	1.21	0.71	0.84	3451	andesite	I_1
35	T012	1390.44	4796.70	Apas-Balang	S. Balung	1.54	0.68	0.45	0.11	81	dacite	I_1
36	H026	1417.62	4808.30	Mostyn	S. Metarid	3.20	0.62	0.34	0.28	124	basalt	I_2
37	H022	1410.70	4806.87	Mostyn	S. Limau	4.05	0.86	0.09	0.47	2095	coarse tuff	P_4Kg
38	H015	1405.62	4803.94	Mostyn	S. Kalumpang	4.07	1.15	0.36	0.48	3217	micro-diorite	I_1
39	H013	1399.90	4806.95	Mostyn	S. Pang B.	4.19	0.84	0.15	0.36	1344	sandstone	P_4Kg
40	H003	1390.90	4801.75	Apas-Balang	S. Balung	7.40	0.36	0.71	0.18	986	medium tuff	I_1
41	H001	1387.94	4803.56	Apas-Balang	S. Balung	6.93	0.80	0.28	0.15	378	altered andesite	I_1
42	H027	1414.67	4814.16	Mostyn	S. Atas	2.09	0.32	0.35	0.22	699	chert	KPCS
43	H012	1402.25	4813.00	Mostyn	S. Kalumpang	3.77	0.41	0.43	0.30	1601	lapilli tuff	P_4Kg
44	S003	1393.04	4820.15	Kalumpang	—	2.77	0.83	0.36	0.33	1272	basalt	I_2
45	T016	1390.50	4821.02	Kalumpang	S. Kalumpang	4.73	0.71	0.10	0.17	3275	andesite	I_2
46	S005	1388.84	4828.62	Kalumpang	S. Gading G.	4.80	1.75	0.79	0.21	746	micro-diorite	I_1
47	T045	1397.92	4835.27	P.Timbun Mata	—	5.29	0.72	0.53	0.11	2316	micro-diorite	I_1
48	T032	1388.74	4835.56	Kalumpang	—	9.83	0.66	0.26	0.63	69	fine tuff	I_1
49	T031	1388.05	4834.88	Kalumpang	—	3.92	0.00	0.89	0.47	722	andesite	I_1
50	T027	1380.65	4831.42	Kalumpang	—	2.94	0.94	0.27	0.13	25	alt. and. (gossan)	I_1

Appendix 29

Satellite image analysis using TM data
for the Kinabalu/Labuk area

1. Data used

One scene of TM data taken by the Landsat launched by NASA, USA was processed to generating the image. The details of the data and the aerial coverage of the TM data are shown in Table 1 and Fig. 1 respectively. The range of wave length and the characteristics of each band of the Landsat TM data are shown in Table 2.

2. Image generation

In this survey, two kinds of images including false color and principal component compressed images were generated using CCT(computer compatible tape).

(1) Generation of false color image

The false color images were generated using the band 2 (blue), band 3 (green) and band 4 (red). Contrast stretch processing were used for these images in order to interpret the images easly. The images are shown in Fig. 2.

(2) Generation of principal component compressed images

The principal component analysis is the method to compress the variance of the original data into limited number of components. The principal component compression method is the method integrating the principal component analysis, and can generate four components in one image.

The processing method of this principal component compression is as follows;

① Conducting the principal component analysis.

② Compressing the principal components obtained using following fomula;

$$CPC_{n-1}(x, y) = PC_1(x, y) * PC_n(x, y)$$

$$n = 2, \cdots 6$$

CPC_{n-1} : (n-1)-th principal component compression data at (x, y)

PC_1 : first principal component data at (x, y)

PC_n : n-th principal component data at (x, y)

③ Coloring obtained three principal component compression (CPC_1, CPC_2 and CPC_3) with red, green and blue respectively.

The results of the principal component analysis in this survey are given in Table 3. In this processing, first, second and third principal component compression data which were calculated from first to fourth principal component, were used to

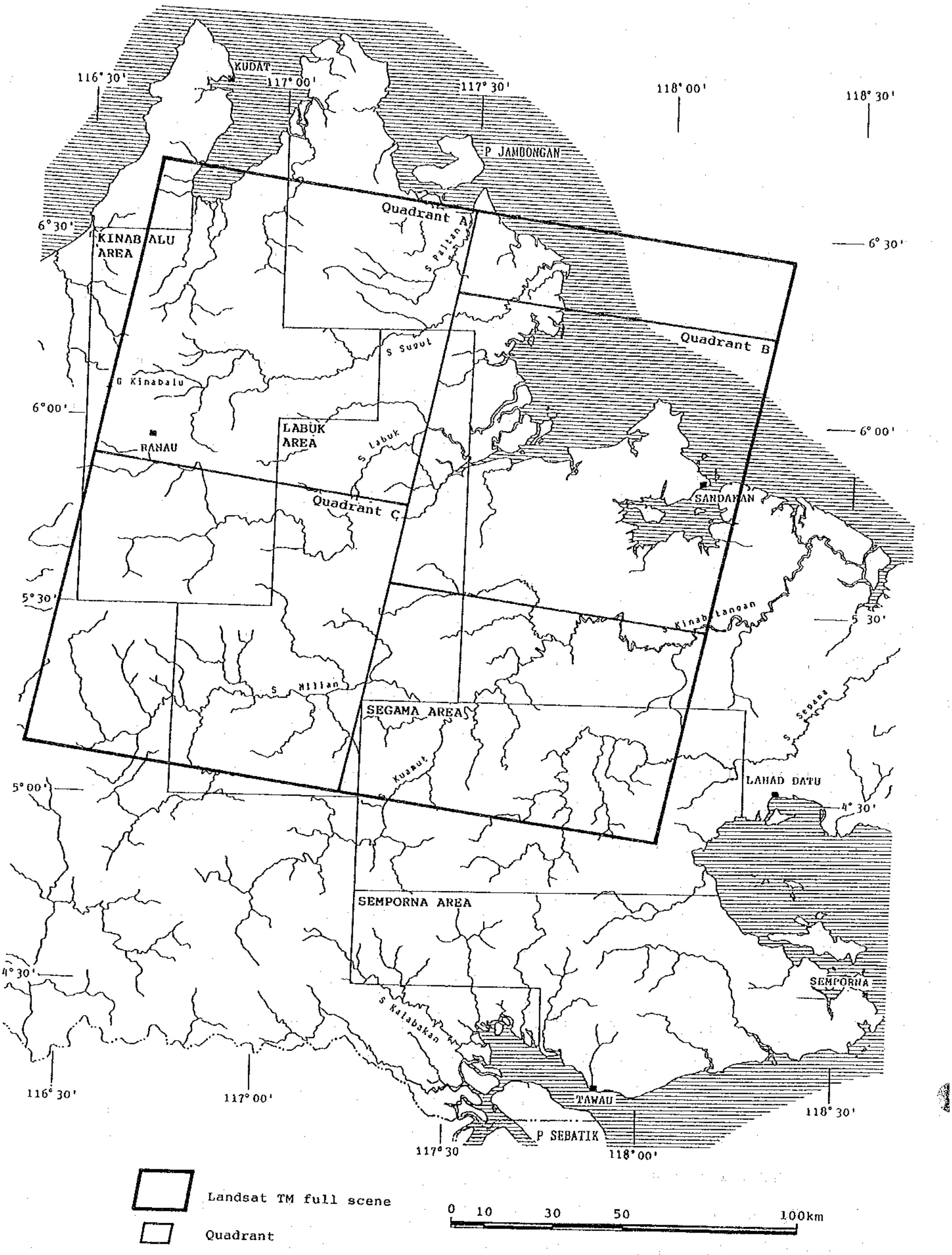


Fig. 1 Index map of Landsat TM data

Table 1 List of Landsat data used

Path	Row	Date	ID number	Cloud cover	Sun azimuth	Sun elevation
117	056	07/10/89	520460 -1513400	1124	108.8 °	56.4 °

Table 2 Band characteristics of Landsat TM data

Band	Wave length	Band characteristics
Band 1	0.45 ～ 0.52μm	water body penetration, differentiation soil from vegetation.
Band 2	0.52 ～ 0.60μm	usefull for vigor assessment of vegetation.
Band 3	0.63 ～ 0.69μm	chlorophyll absorption band.
Band 4	0.76 ～ 0.90μm	usefull for determining biomass content.
Band 5	1.55 ～ 1.76μm	indicative of moisture content of vegetation and soil.
Band 6	10.40 ～ 12.50μm	thermal infrared band
Band 7	2.08 ～ 2.35μm	discriminating rock types, hydrothermal mapping.

Table 3 Result of principal component analysis

Principal component		1 st	2 nd	3 rd	4 th	5 th	6 th
Band	Band 1	0.50	-0.33	-0.29	-0.69	-0.27	-0.09
	Band 2	0.32	-0.17	-0.15	0.20	0.15	0.89
	Band 3	0.49	-0.37	-0.14	0.66	0.00	-0.41
	Band 4	0.31	0.77	-0.54	0.04	0.12	-0.08
	Band 5	0.48	0.36	0.70	0.03	-0.38	0.07
	Band 7	0.28	-0.02	0.31	-0.24	0.86	-0.14
Contribution		79.47	16.16	3.08	0.97	0.22	0.09
Cumulative contribut.		79.47	95.63	98.71	99.69	99.91	100.00

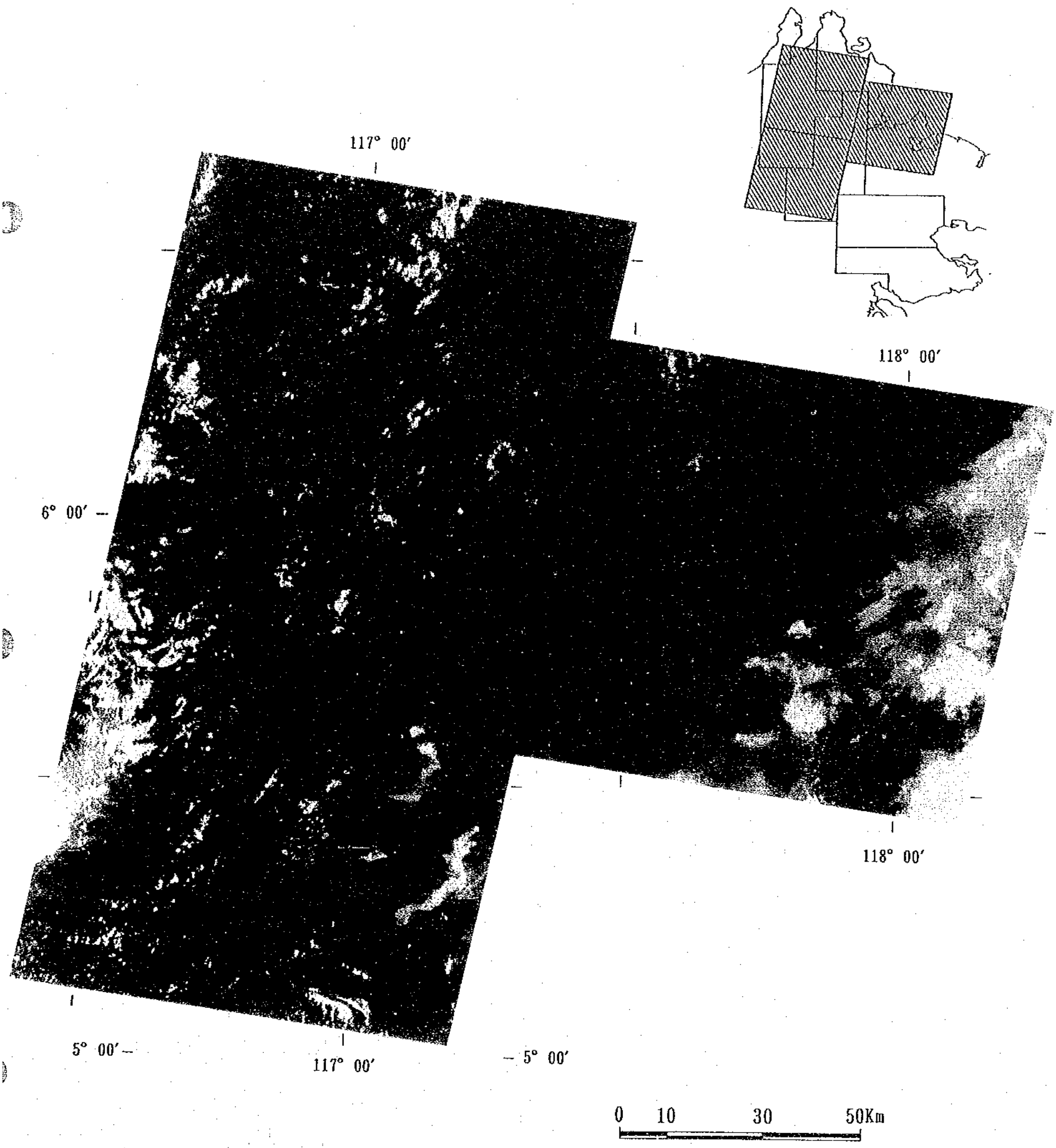


Fig. 2 Landat TM false color image of the Kinabalu and Labuk areas

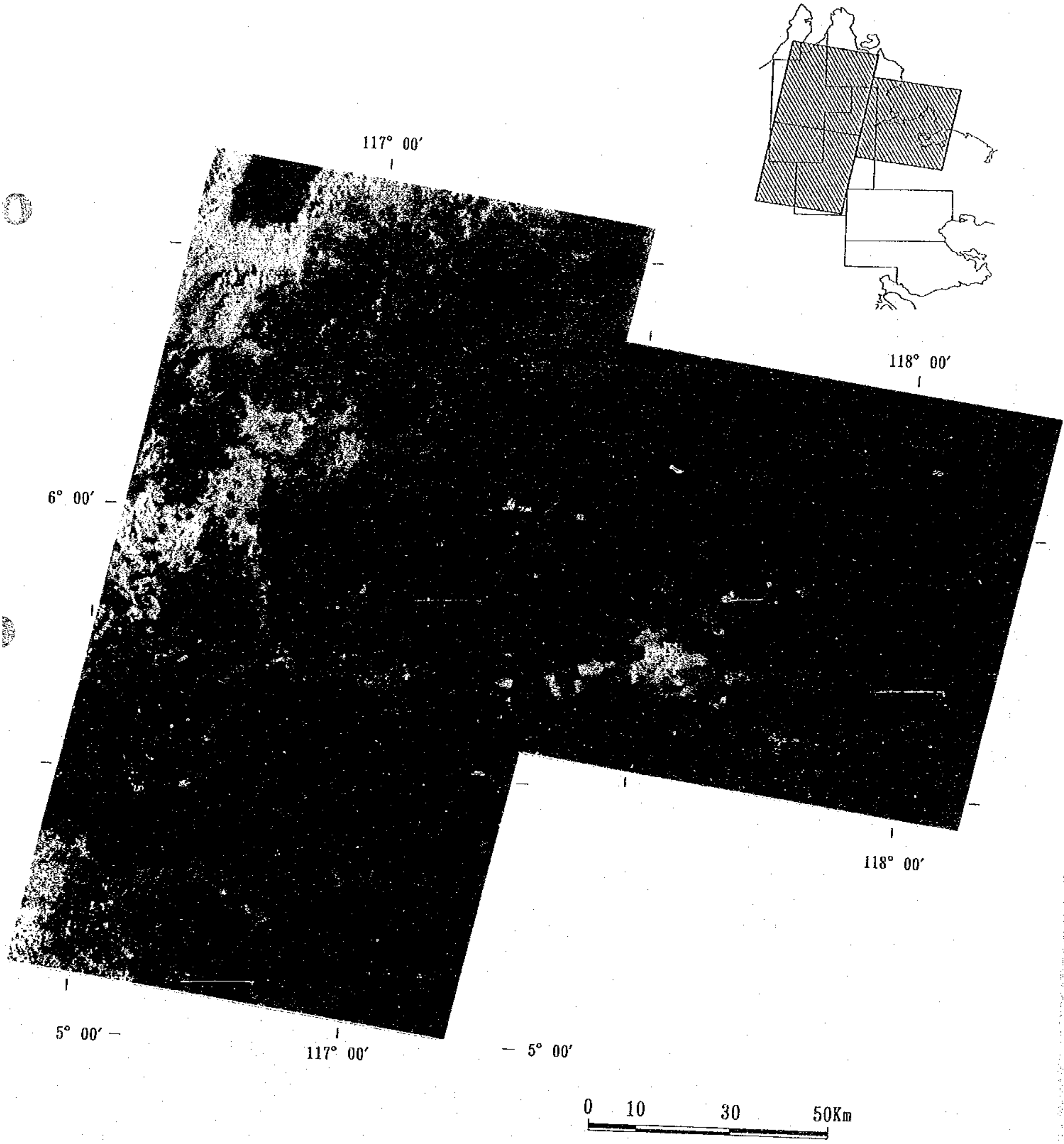


Fig.3 Landat TM PC compressed image of the Kinabalu and Labuk areas

generate the image. As the results, more than 99 % of original TM data were expressed on the image. The band 6 is extruded from this processing because of different ground resolution. The principal component compression image generated is shown in Fig. 3.

(3) Generated image

List of the images generated and interpreted in this survey are shown in Table 4.

Table 4 List of generated Landsat TM images

Type of image	P - R	Scene size	Scale
False color image	117-056	Quadrant (A)	1:100,000
False color image	117-056	Quadrant (B)	1:100,000
False color image	117-056	Quadrant (C)	1:100,000
PC compressed image	117-056	Quadrant (A)	1:100,000
PC compressed image	117-056	Quadrant (B)	1:100,000
PC compressed image	117-056	Quadrant (C)	1:100,000

PC: principal component

3. Lithologic classification

Fifteen geologic unit were classified in the area by this photogeologic interpretation. The interpretation chart and the interpretation result are shown in Table 5 and Fig. 4 respectively.

Distributions and characteristics of each geologic unit are given below. The classified units in this interpretation are basecally same as the results of interpretation for the MSS images in the previous survey, and a few new geologic units are discriminated in this interpretation.

(1) Sedimentary rocks

Unit Pa-1 This unit is widely distributed over the area between central and west parts of the Labuk area and it is closely associated by Unit ub. Variable topographic features, relatively rough to intermediate, within the unit indicates that resistance against erosion is not uniform through out the area. This unit corresponds to Chert-Spilite formation (KPCs) mainly consisting of chert, basalt and spilite.

Table 5 Photogeologic interpretation chart

Units	Color		Drainage		Morphological expression					Vegetation	Comparison with existing data
	False color	PC compressed	Pattern	Density	Rock resistance	Cross section of vallay & ridge	Texture	Bedding or schistosity	Lineament		
Qb	dark red to red	purple and creamy yellow	anastomotic	high	very low	– / –	very smooth	–	–	dense	recent alluvial clay, sand
Qa	dark red	light gray	subparallel	high	low	◡ / ◠	rough	–	–	dense	terrace clay, sand, gravel
Nb-5	dark red	brown and pale orange	parallel	very high	moderate	∨ / ∧	intermediate	well bedded	low	very dense	sandstone
Nb-3	dark red	brown and purple	annular	moderate to high	moderate	∨ / ∧	intermediate	well bedded	low	very dense	mudstone, siltstone
Nb-2	red	orange	dendritic	high	very high	V / Λ	very rough	poorly bedded	low	very dense	calcareous sandstone
Nb-1	dark red	brown	trellis	moderate	low to moderate	∨ / ∧	smooth to intermediate	bedded	low	very dense	sandstone, mudstone
Pb	dark red	brown	trellis	high	low	◡ / ◠	smooth	well bedded	very low	very dense	sandstone, shale
Pa-5	red	pale red	dendritic	high	low	◡ / ◠	smooth	bedded	low	very dense	mudstone, slump breccia
Pa-4	red to dark red	brown, orange and pale red	dendritic, trellis	very high	moderate to high	∨ / ∧	rough to intermediate	well bedded locally	low	very dense	alternation beds of sandstone and shale
Pa-3	dark red	brown	dendritic	moderate	moderate	∨ / ∧	rough and smooth	bedded	low	very dense	mudstone
Pa-2	red	pale red	dendritic	high	very high	V / Λ	very high	poorly bedded	low	very dense	shale, phyllite
Pa-1	red	pale red and dark red	dendritic, trellis	high to moderate	high to moderate	V / Λ	rough to intermediate	bedded locally	low	very dense	chert, spilite
ad	dark red	dark gray	subdendritic	high	very high	V / Λ	rough	–	moderate	very dense	adamellite
gb	dark red	dark gray and dark red	subdendritic	moderate	moderate	◡ / ◠	rough	poorly layered	low	very dense	gabbro, dolerite
ub	dark brown	dark purple	dendritic	high	very high to moderate	∨ / ∧	rough to very rough	poorly layered	moderate	very dense	peridotite

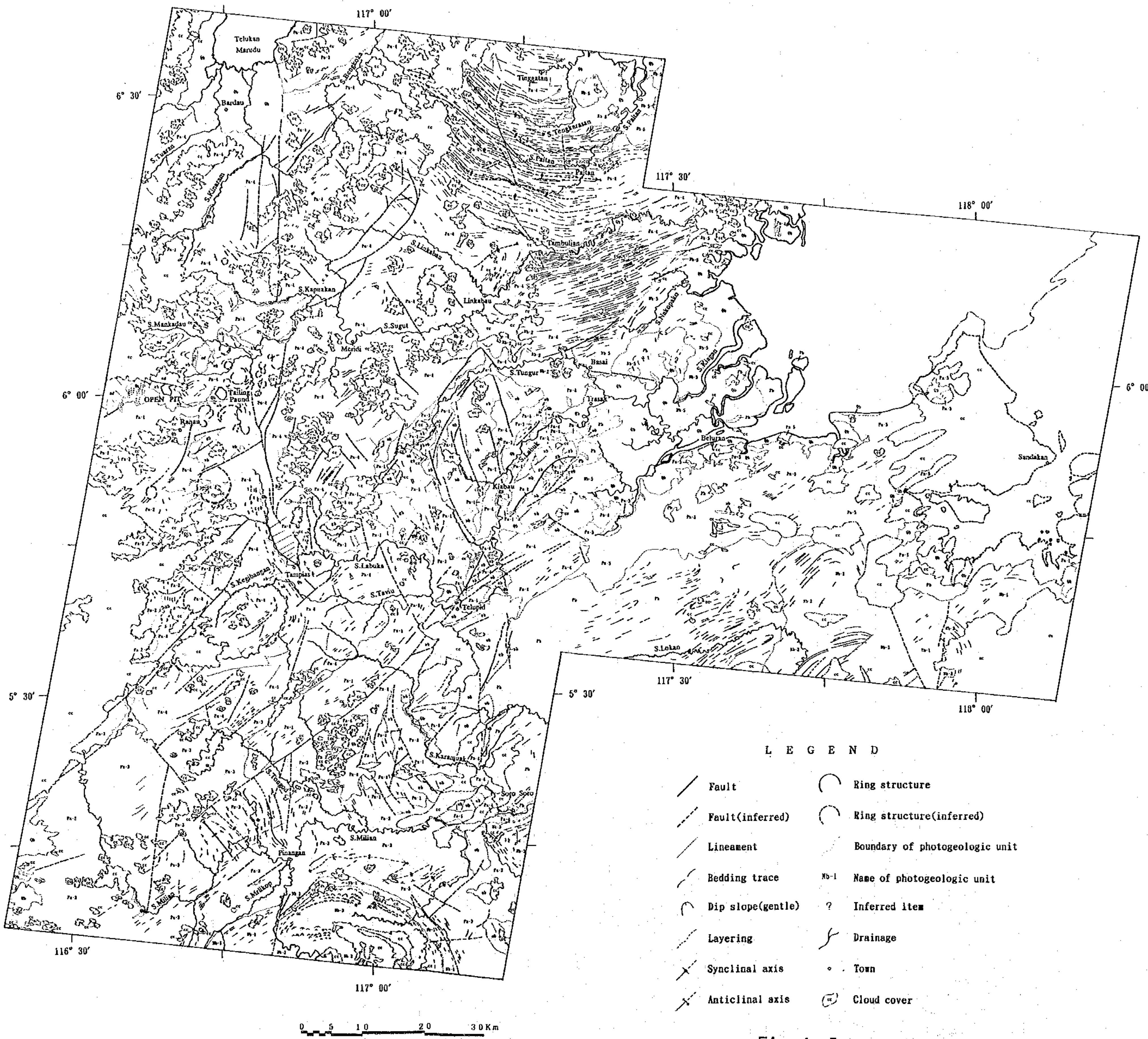


Fig. 4 Interpretation map of Landsat TM images in the Kinabalu and Labuk areas

Unit Pa-2 Tis unit is distributed in southwest vicinity of the Kinabalu area. A high resistance of this unit is reflected by very rough topography. The unit shows characteristics siilar to those of Unit Pa-4, however, resistivity is different between them. This can be explained either by contemporaneous hetorotopic facies relation between them or by a lithologic variation within a formation. This unit corresponds to Trusumadi formation (P_1Ts), consisting of shale and phyllite.

Unit Pa-3 The unit is distributed over the area between south part of the Labuk area and northwest part of the Segama area. It, typically, shows very undulated, rough texture except in northwest part of the Segama area where it shows a relatively flat topography. The characteristics of the Unit Pa-3 are similar to those of Unit Pa-4. The unit corresponds to mudstone dominant Sapulut formation (KPSp).

Unit Pa-4 This unit, characterized by rough topography and dendritic drainage pattern, occupies a wide area, from the Kinabalu area to the Labuk area. In north part of the survey area, a continuous bedding plane with changing trend, NW-SW to E-W, and a characteristic lattice drainage pattern are observed. This unit corresponds to Crocker formation (P_2Cr) composed of flysh-type sandstone.

Unit Pb This unit is distributed in east part of the Labuk area and characterized by a relatively flat topography. A low resistance of the unit resulted in a formation of lattice drainage pattern in the area. The unit correspond to Kulapis formation (P_2Ks), consisting of red calcareous sandstone and shale, and it has unconformable boundaries with underlying and overlying formations.

Unit Nb-1 The unit has a restricted distribution in northwest part of the Segama area, and it is characterized by rather undulated, flat topography and clear beddings. It is conformably overlain by Unit Nb-3. The unit is correspond to Labang formation (P_3Lb) and Kuamut formation (P_4Km), both of which are mainly composed of sandstone and mudstone.

Unit Nb-2 This unit, characterized by a very rough topography, occupies a small area in the east part of the Kinabalu area. Although the topographic features easily separate this unit from other surrounding unit, its stratigraphic relations with other units are not known from interpretation of the images. The unit correspond to the limestone-dominant Kudat formation (P_3Kb).

Unit Nb-3 The unit, showing clear bedding and questa, is distributed in the south part of the Labuk area. An annular drainage system, reflecting geologic structure of the area, is a characteristic drainage system of the unit. The unit correspond to Tanjong formation (N_2Tj) composed of mudstone and siltstone.

Unit Nb-5 This unit occupies a restricted area in northeast part of the Labuk area. An annular drainage system, reflecting geologic structure of the area, is a characteristic drainage system of the unit. The unit corresponds to Bongaya formation (N_4By) composed of sandstone.

Unit Qa The unit is found on slopes of mountains in the northeast of Ranau, Kinabalu area. It shows a relatively rough texture of low resistance. The unit corresponds to Pinosuk Gravels of glacier deposits.

Unit Qb The unit is distributed along coast lines and main drainages. It shows very flat topography and very low resistance. A drainage pattern of the unit is anastomotic and its density increases close to coast lines.

(2) Intrusive rocks

Unit ub This unit is widespread in the Labuk area and it shows scattering distribution around Ranau of the Kinabalu area. Very rough topography is a characteristic feature of the unit, however, it shows a intermediate roughness in certain part of the unit and locally layered structure is observed. It shows a characteristic tone on the images, dark brown on false color images and dark purple on principal component compressed images. The unit corresponds to the ultrabasic rocks of Cretaceous to early Tertiary.

Unit gb This unit is distributed in northwest and southwest of Telupid in the Labuk area and in southeast of Ranau in the Kinabalu area. It is characterized by a topography of intermediate roughness and relatively rounded ridge pattern. a layered structure is, locally, observed. The unit corresponds to the gabbro and dolerite of Cretaceous to early Tertiary.

Unit ad — A scattered distribution of the unit is found in north of Ranau in the Kinabalu area. It is characterized by a rough topography and a dark tones. A few lineaments are locally found. The unit is correspond to the adamellite intrusive bodies of middle to late Tertiary.

4. Geologic structure

Based on the results of this interpretation, a geologic structure map is illustrated as shown in Fig. 5. The geologic structure in the surcey area is summerized as follows:

(1) Kinabalu and Labuk areas

Geologic structure in the Kinabalu area is characterized by general trends of NW-SE and E-W which is observed in the area of unit Pa-4. This geologic unit is widely found in the north and central parts of this area. The geologic structure of this unit consists of synclinal and anticlinal structures, and strike-slip faults. The faults trending NW-SE, NE-SW and N-S cutting the general trends are also found in the image and forms complicated structure in the area. This geologic structure is not found in the west part of the Kinabalu area, and is bounded by faults trending N-S which occurs from Bandau to 10 km east of Ranau. This fault system is significant one and forms fault zone. This fault zone separate the Kinabalu area and each side shows completely different geologic structure.

In the Labuk area, the unit ub is distributed in north and central parts of the area, the unit Pa-1 occurs from the central to west part of the area with a direction of NE-SW, and the unit Nb-3 unconformably covers these units. These distributions give complicated structure in this area. General trend of NE-SW is dominated in the north and central parts of the area where units ub and Pa-1 are distributed. In these parts, fault systems of NE-SW, N-S and NW-SE are also observed. In the south part of the area, basin structure is observed in the area

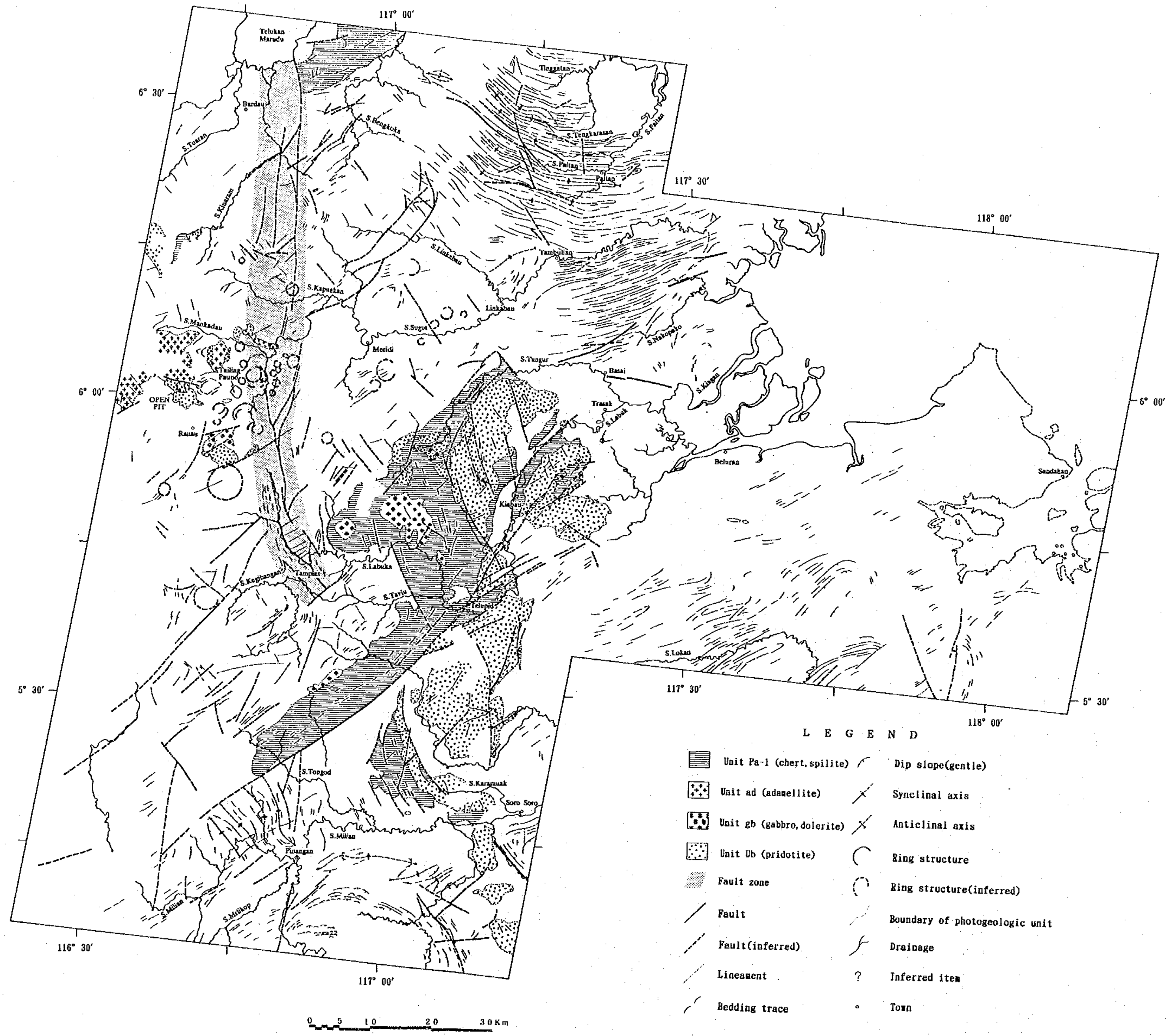


Fig. 5 Interpretation map of geologic structure in the Kinabalu and Labuk areas

where geologic unit Nb-3 occurs. This structure continuing further south, outside of the survey area, is gentle and 10 km in diameter. The unit Nb-3 unconformably covers the undelain units and shows different geologic structure to the underlain units. Consequently, this basin structure is thought to be formed in later stage compare to the structure observed in the north and central parts of the area.

(2) Ranau and the surroundings

A significant fault trending N-S is found approximately 10 km east of Ranau. This fault separated the area to different geologic settings. Mineral deposits represented by Mamut mine is found in the west side of this fault and no mineral deposits is known in the east side of this fault. The Mamut mine area is in the area of unit Pa-4 and shows complicate structure because of intruded or emplaced rocks, such as adamellite and ultra-basic rocks, corresponding to the geologic units of ad and ub. Many ring structures, several km to 10 km in diameter, are found in the area of unit Pa-4. Existing geologic maps indicate that some of the ring structure corresponds to the granodiorite stocks, and these ring structures characteristically align along the N-S trending fault. Although intrusives are not observed in some ring structures, these ring structures are possibly retated to subsurface intrusive bodies. Units ad and ub are not recognized at east side of this N-S trending fault, and only faults and lineaments are found within the unit Pa-4.

(3) Bidu Bidu Hill and the surroundings

Fault system trending NW-SE is dominated in the Bidu Bidu Hill area. Among these fault, shape of the fault and distribution of geologic units suggest that the fault bounding the unit ub and Pa-1 is thrust fault. This characteristic futures are also found along Labuk river where widely coverd by alluvium. Faults trending NNW-SSE are also found in the area of unit ub. NW-SE trending lineaments are observed in the Bidu Bidu Hill ore deposit area where situated in a area of unit Pa-1. Geologic unit corresponding to microgabbro due to existing geologic map, is discriminated on the image in this area. Although the unit ub shows rough and massive topography in general, layered structure trending NE-SW is observed in limited area at the east of the Bidu Bidu Hill ore deposit.

5. Discussion

As the results of this interpretation, followings can be pointed out.

(1) Data used and images generated

① Because the ground resolution of TM data is 30 m, TM data give more usefull data comparing to MSS data which resolution is 80 m. Consequently, it is better to use TM date for the important area, such as ore deposit area, in order to carry out more accurate interpretation, if adequate data are available.

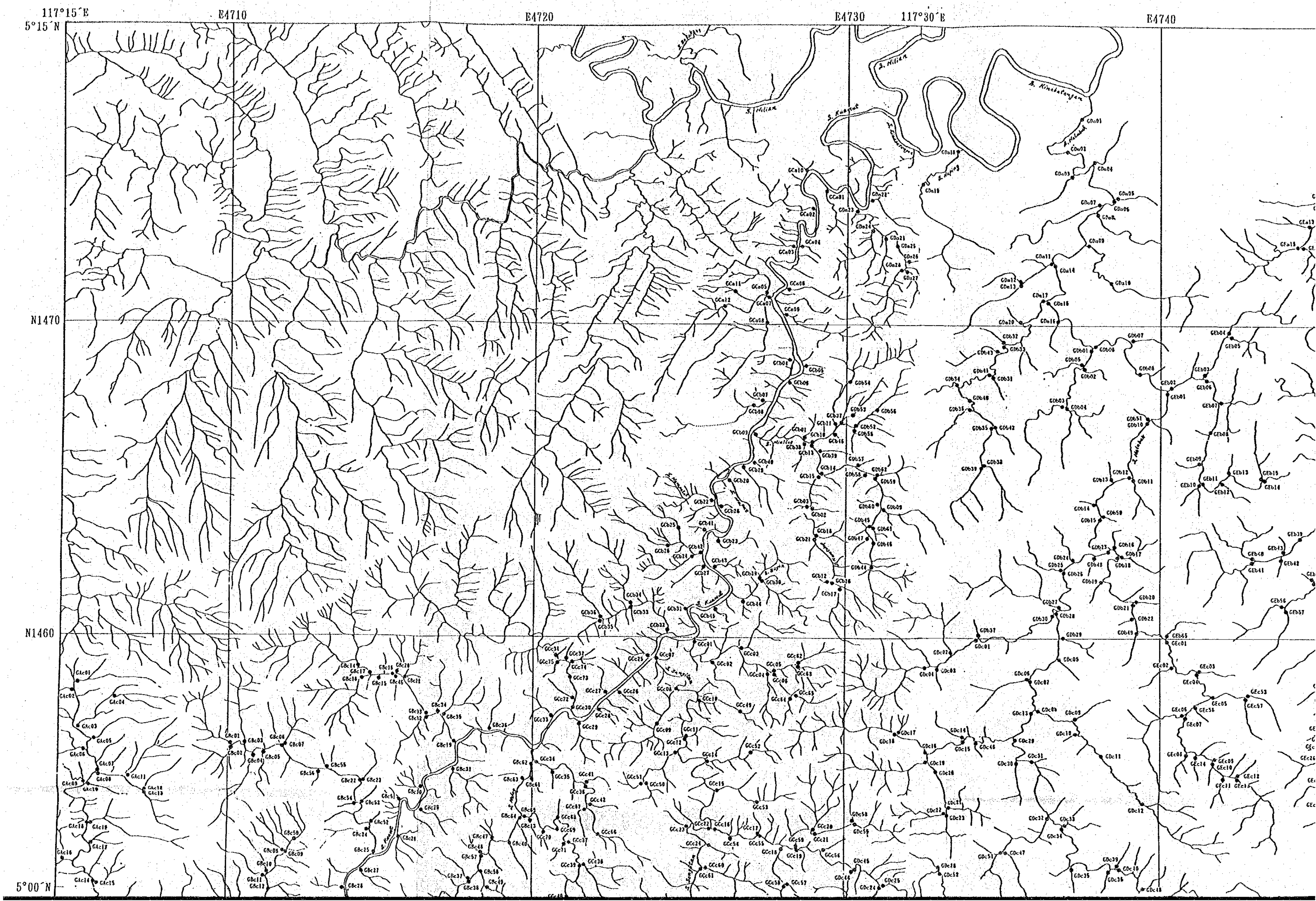
② The principal component compressed images generated in this survey have not only spectral data but also topographic data. Six bands were used for the generation of this image. Consequently, this image is quite usefull for photogeologic interpretation.

(2) Results of interpretation

① Fault zone in a direction of N-S was deliniated at the east of Ranau in this interpretation of images. This fault zone possibly play important role for the geology and mineralization in the area. A ground truth survey should be carried out in this area to understand the geology more clearly.

② Ring structures deliniated in the Ranau area suggest existance of intrusive bodies. As the results of Phase I survey, mineralization was recognized in these intrusive bodies. Consequently, the ring structure is quite important for further exploration work in this area.

③ The area along Labuk river was deliniated as the area showing similar geologic setting of Bidu Bidu Hill ore deposit area. It is better to carry out geologic survey in the Labuk river area in order to clarify the relationsip between the geology and mineralization.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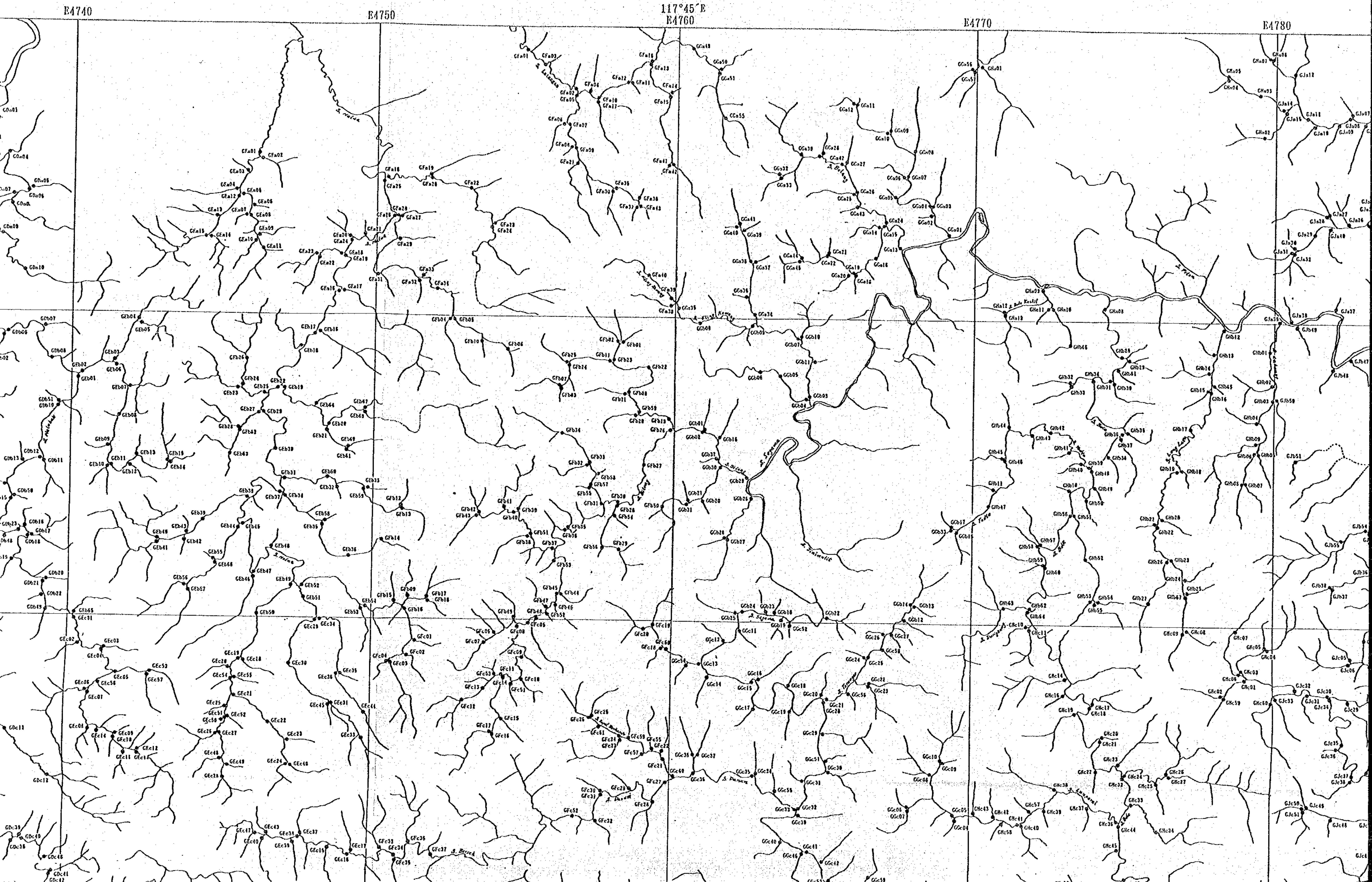
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