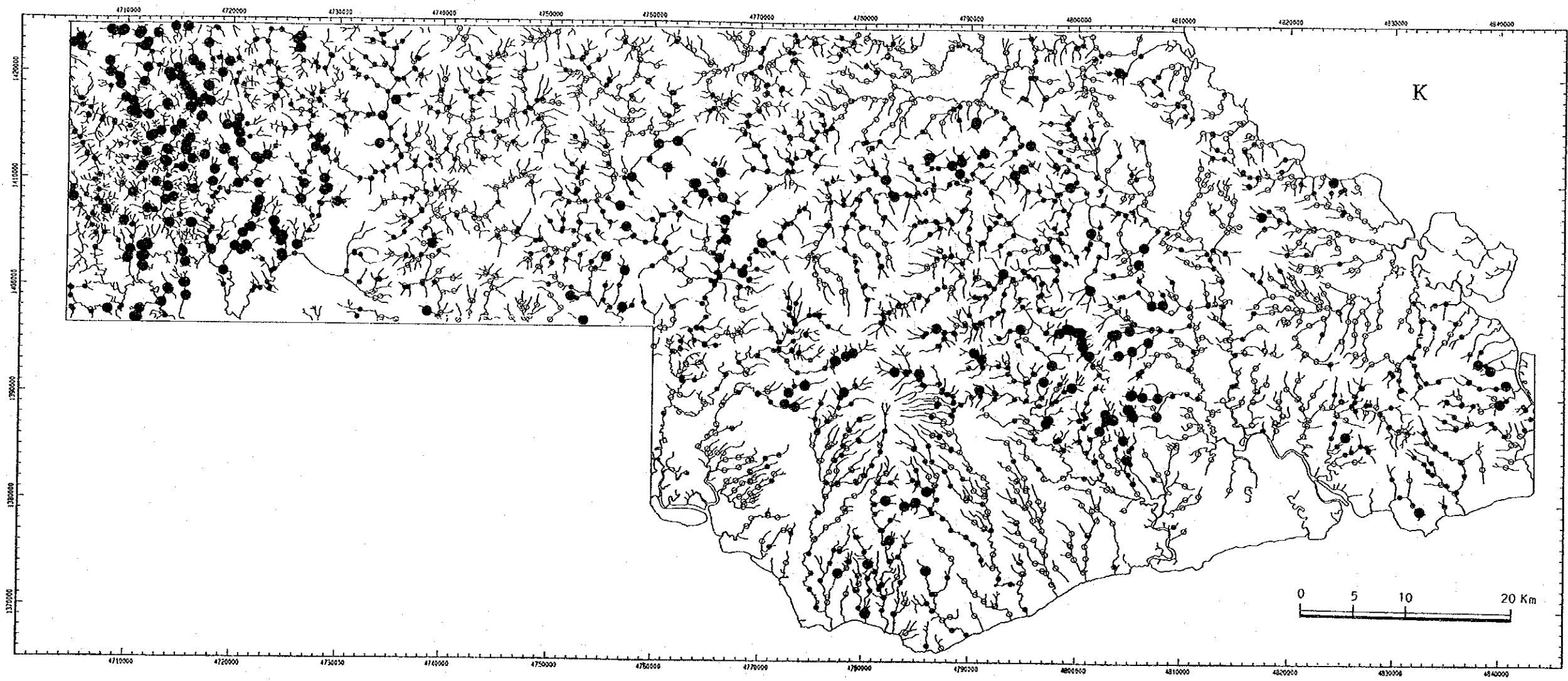


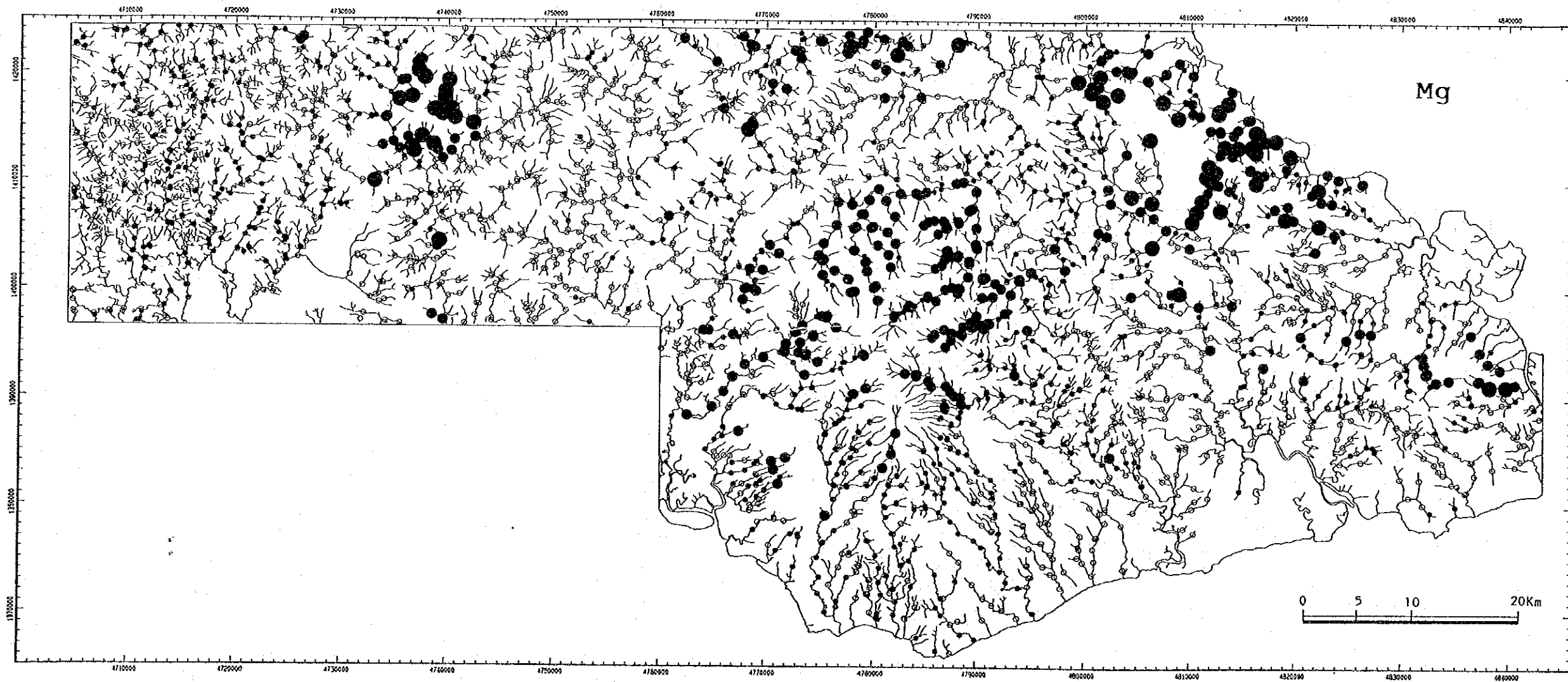
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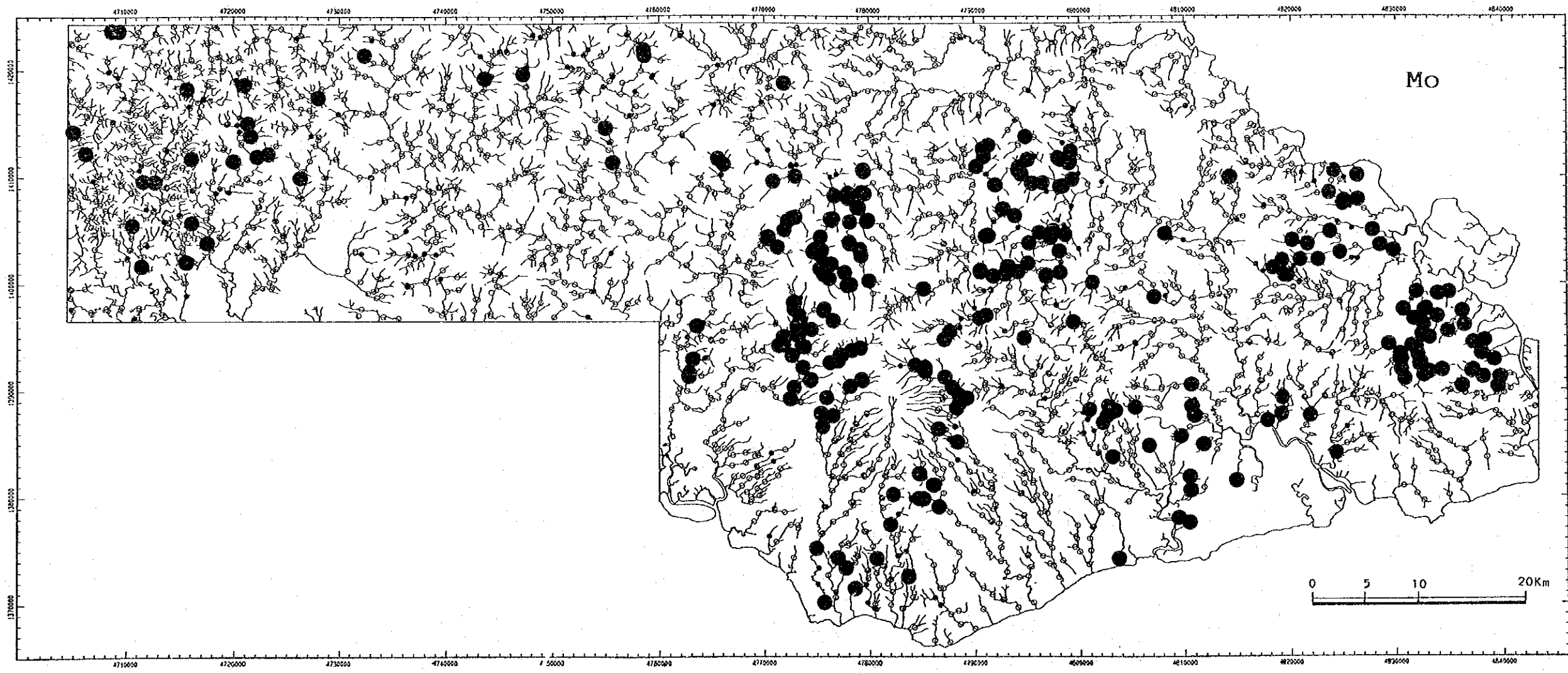
- 141.52 ppb
- 56.03
- 22.15
-

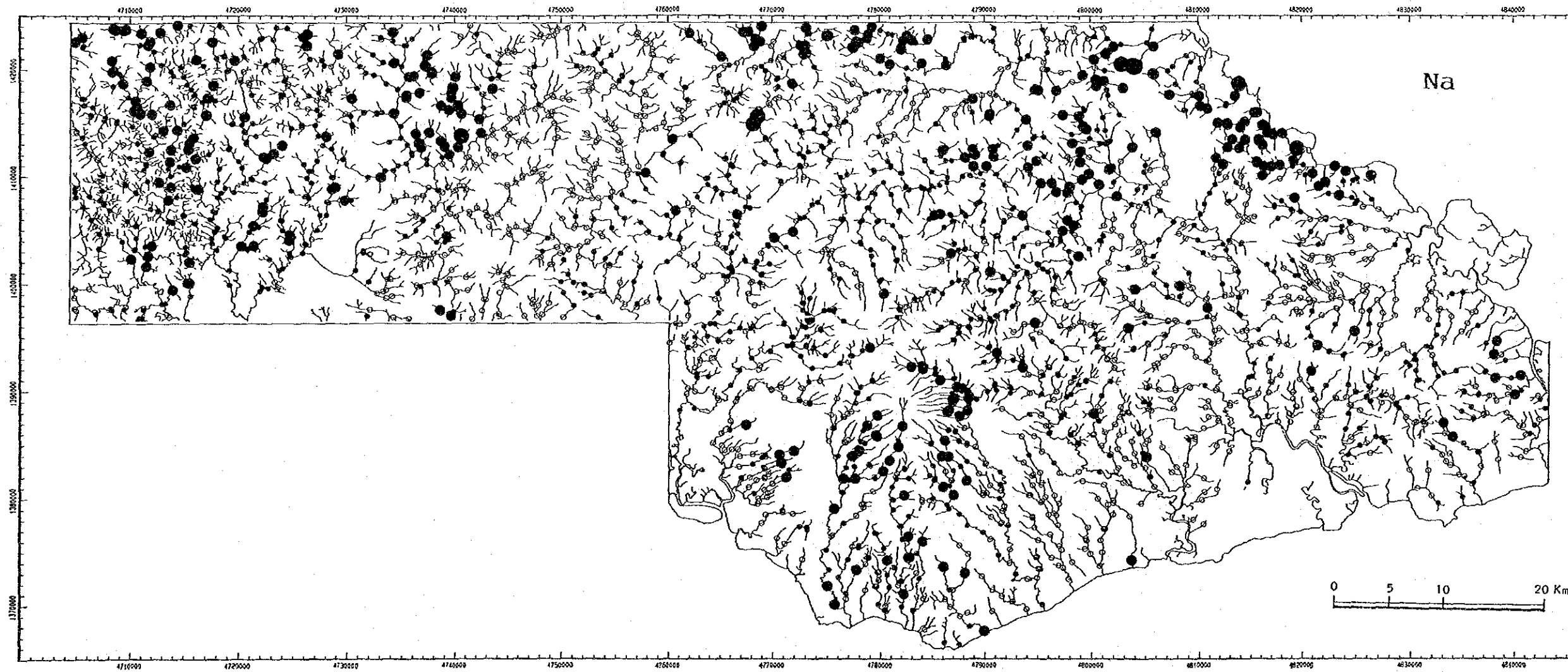
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 U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 WATER QUALITY MAP
 GAIN 11984

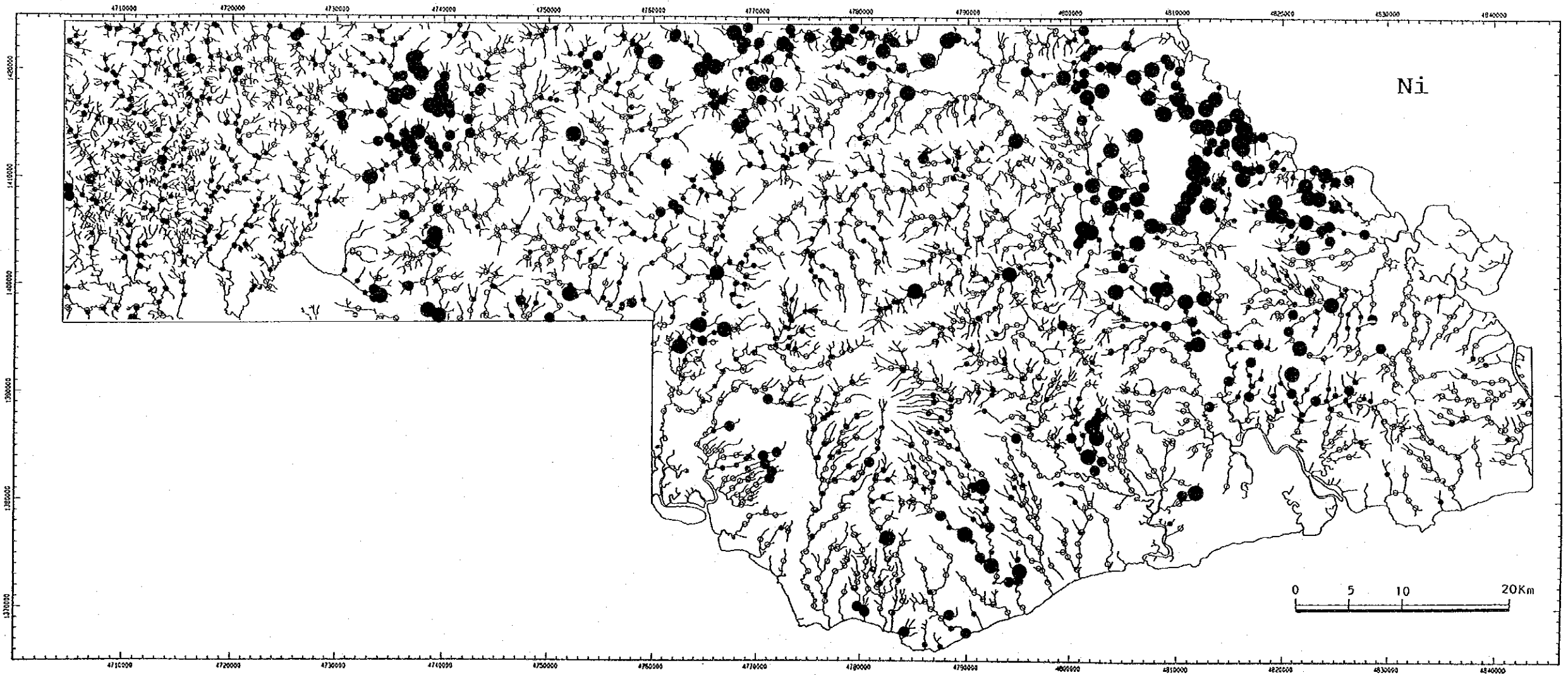


LEGEND
 ● 3.18
 ● 0.91
 ● 0.26
 ○





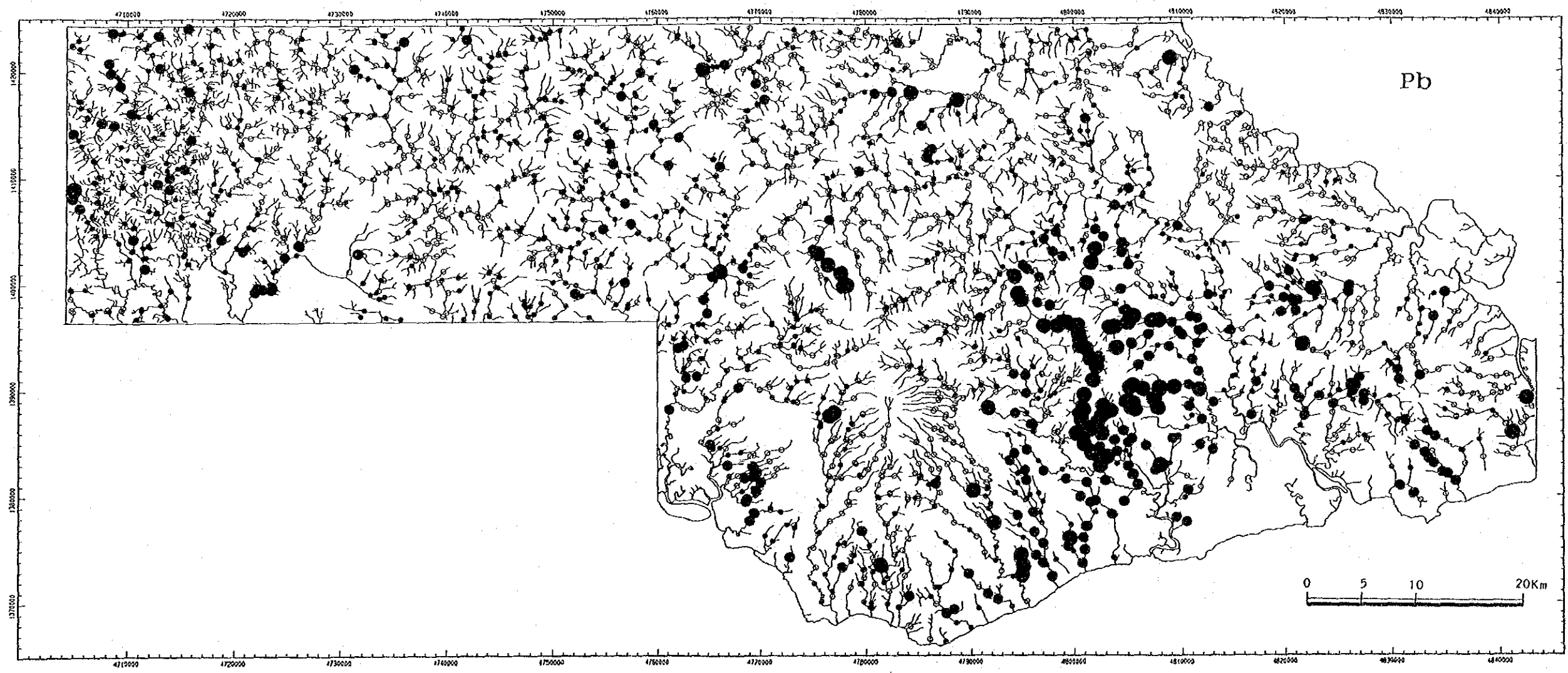


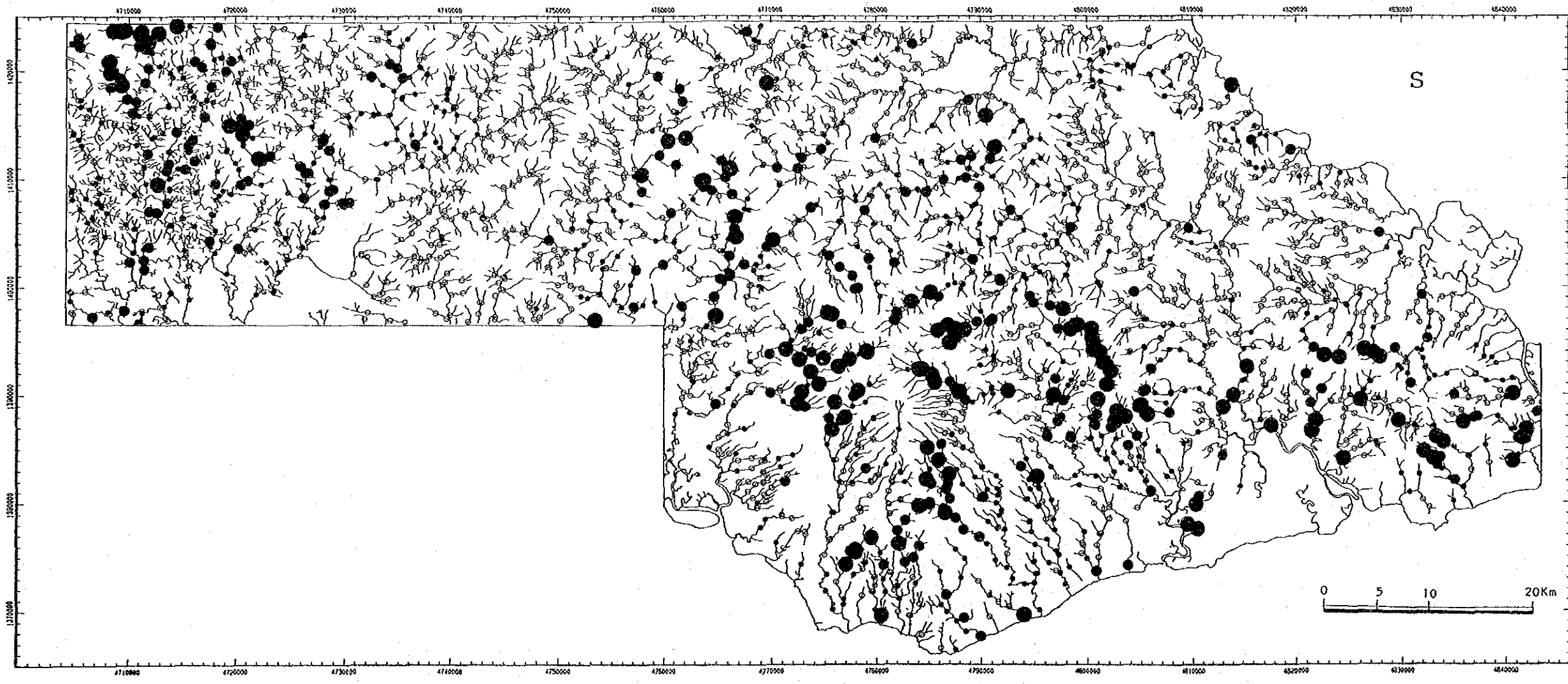


LEGEND

- 171.52 DPM
- 76.74
- 34.28

1:200,000
 U.S. GEOLOGICAL SURVEY
 DISTRICT OF COLUMBIA
 DISTRICT OF COLUMBIA
 DISTRICT OF COLUMBIA

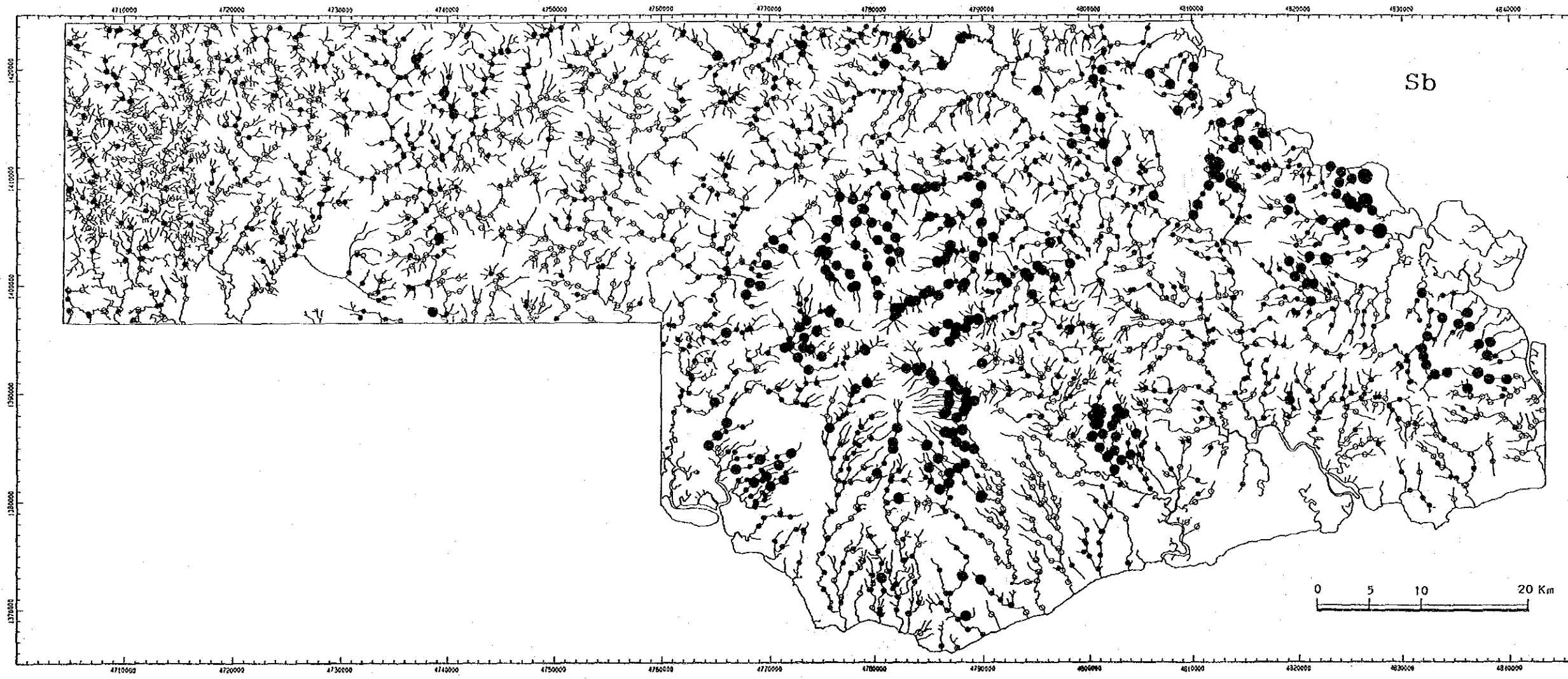


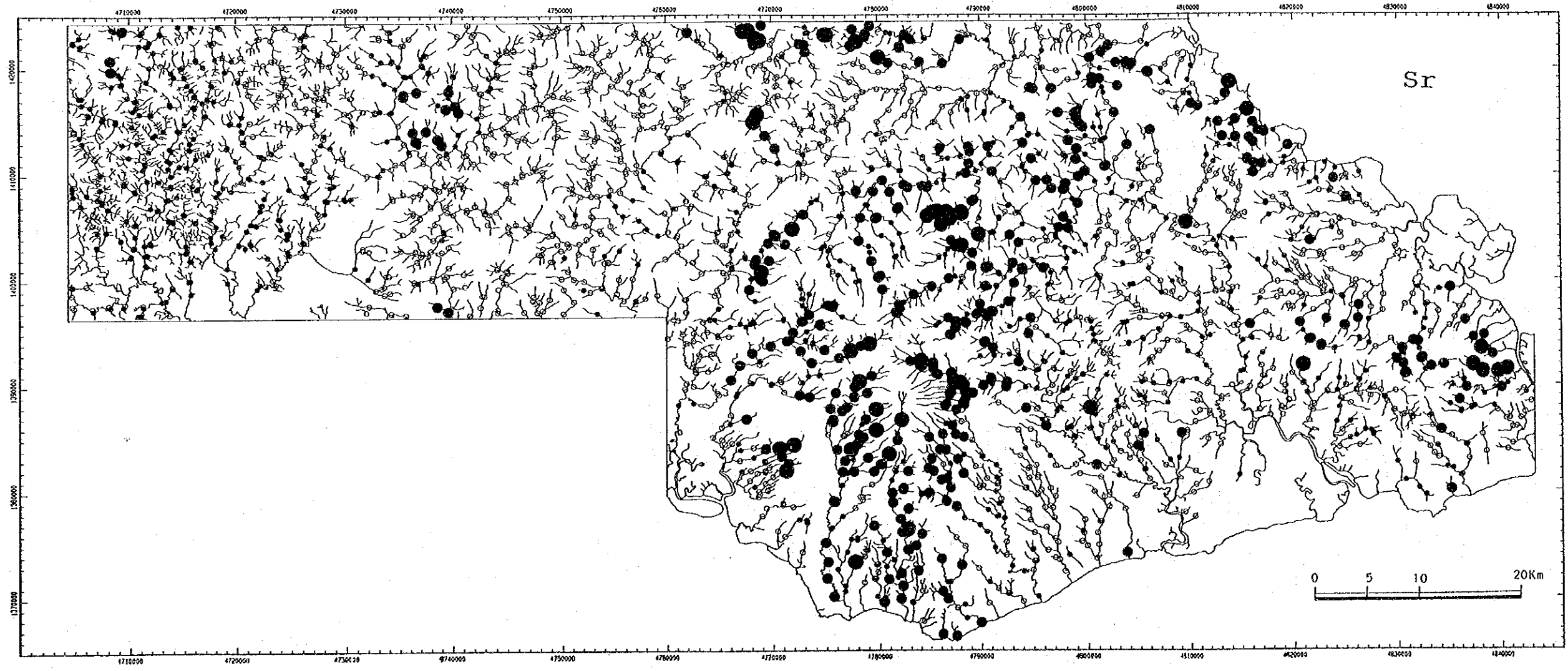


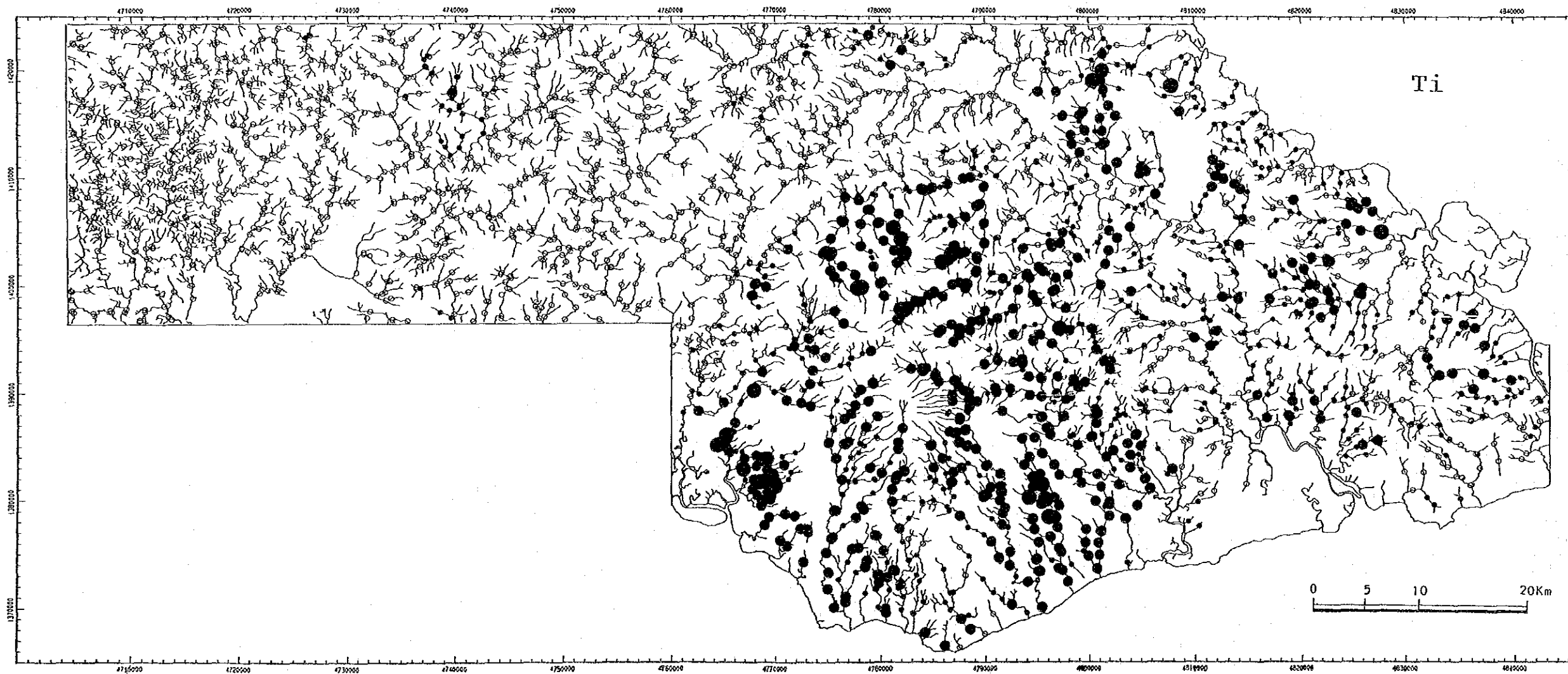
LEGEND

- 0.17 %
- 0.08
- 0.03
- 0.03

1:25,000
 U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 GAINESVILLE, FLORIDA



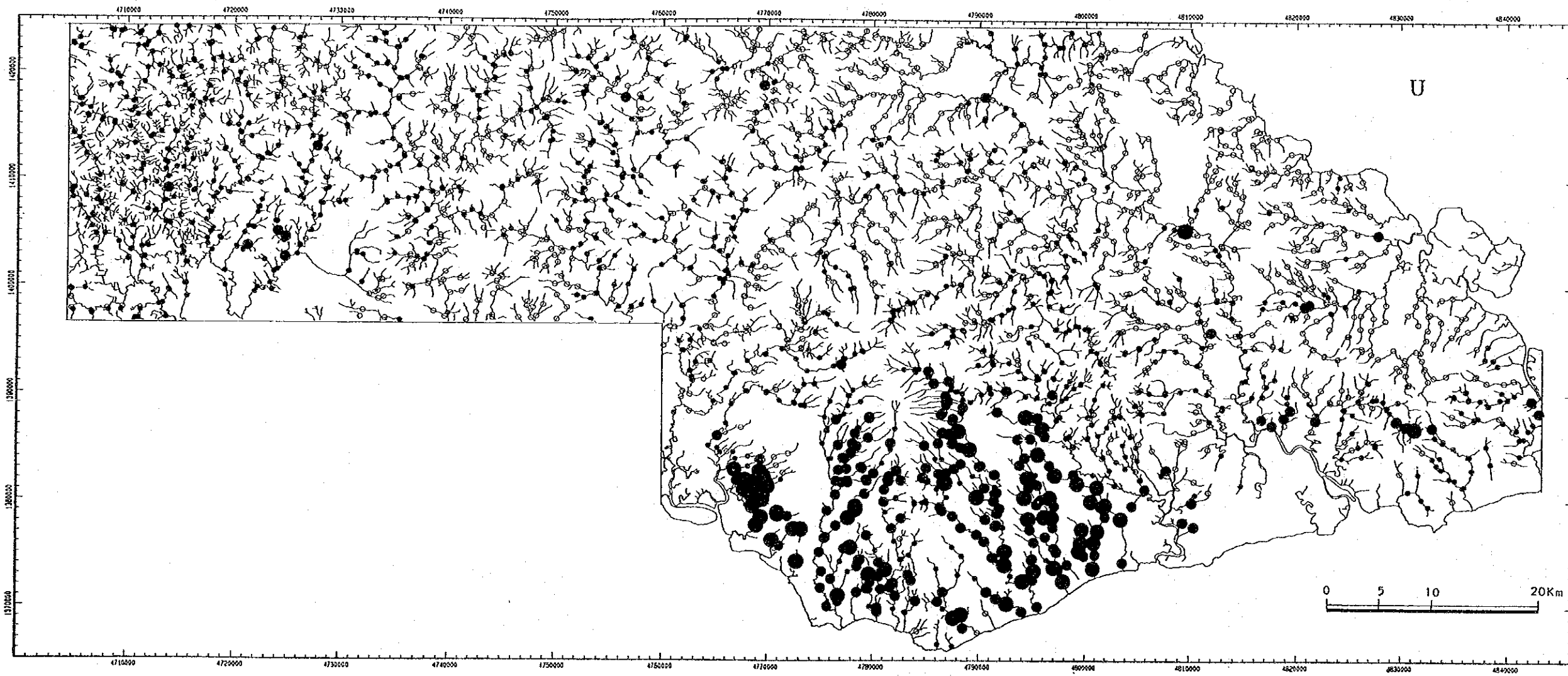




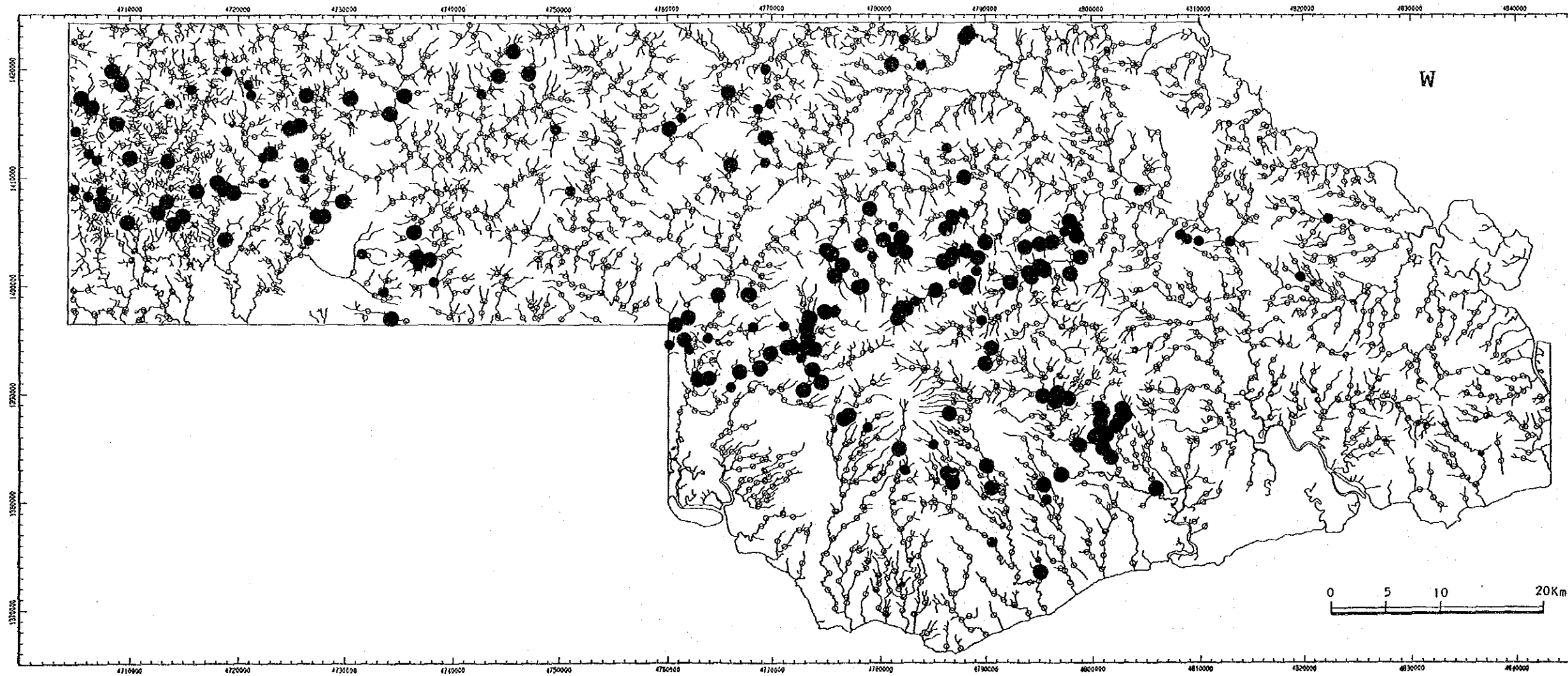
LEGEND

- 4.70 %
- 1.63
- 0.56

1: 300,000
 2: 1: 300,000
 3: 1: 300,000
 4: 1: 300,000
 5: 1: 300,000
 6: 1: 300,000
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 10: 1: 300,000



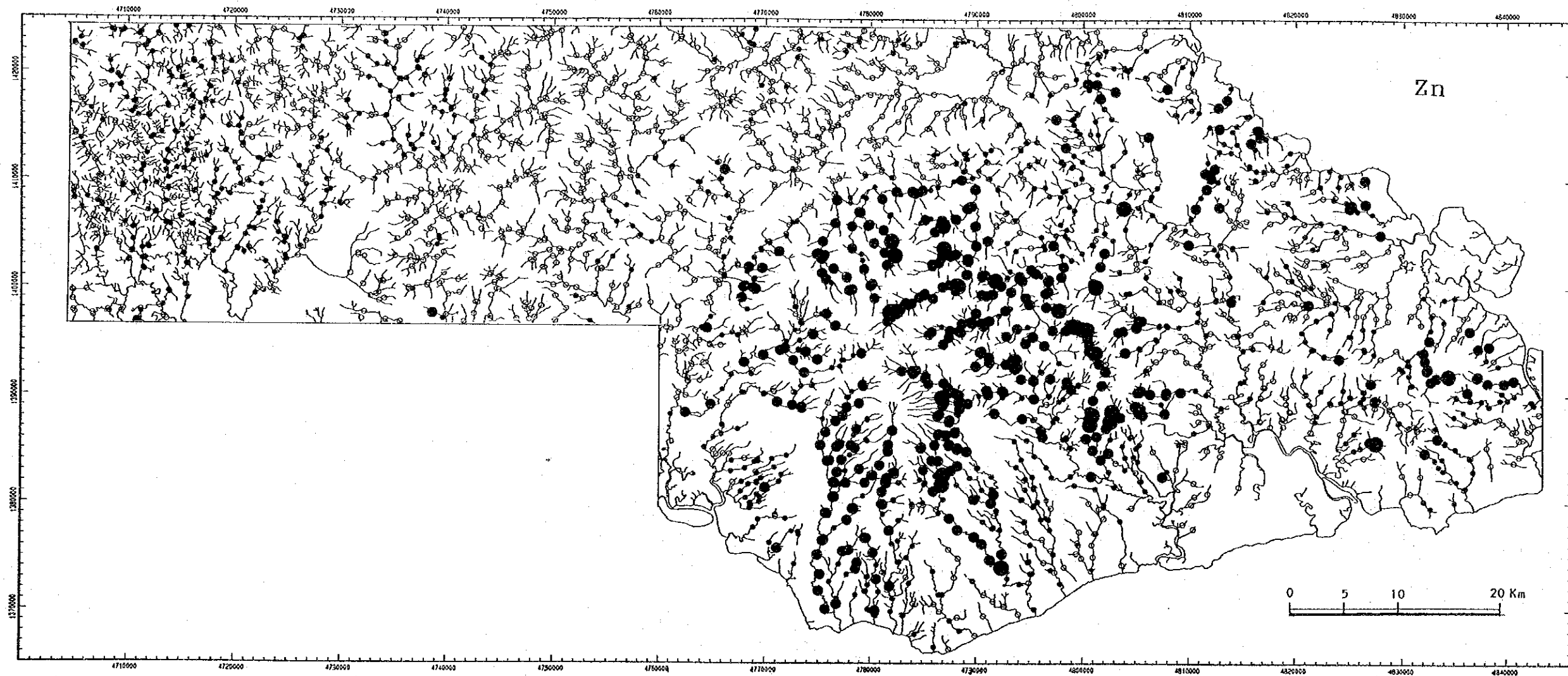
LEGEND
 ● 4.70 PPM
 ● 2.50
 ● 1.32
 ○
 1:500,000
 U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 WATER QUALITY BRANCH
 WATER QUALITY MAP



LEGEND

- 2.05 P/MI
- 1.50
- 1.09
-

U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 GROUND-WATER MAP



Appendix 16

List of pan concentrate sample
in the Semporna area

Ser. No.	Sample No.	Coordinates		Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow *1	Size *2
		N	E							
1	B060	1406.15	4706.27	Sungai Tiagau	S. Kalabakan	< 1	3	3.0	3	4
2	B061	1412.40	4706.10	Sungai Tiagau	S. Kalabakan	1	3	8.0	4	2
3	B063	1398.10	4712.10	Sungai Tiagau	S. Kalabakan	< 1	2	4.0	3	3
4	D010	1408.00	4707.20	Sungai Tiagau	S. Kalabakan	< 1	3	6.0	1	1
5	D018	1398.75	4715.50	Sungai Tiagau	S. Kalabakan	< 1	2	4.0	2	1
6	B064	1398.10	4709.63	Sungai Tiagau	S. Anjeranjermut	< 1	3	15.0	3	3
7	B065	1397.87	4705.00	Sungai Tiagau	S. Anjeranjermut	< 1	3	9.0	1	2
8	M054	1409.63	4712.65	Sungai Tiagau	S. Tiagau	2	2	3.0	3	3
9	B057	1410.90	4713.55	Sungai Tiagau	S. Tiagau	1	3	5.0	2	3
10	B059	1410.05	4713.90	Sungai Tiagau	S. Tiagau	< 1	2	5.0	4	2
11	H056	1403.40	4720.05	Sungai Tiagau	S. Tiagau	1	2	5.0	3	3
12	D017	1402.20	4715.70	Sungai Tiagau	S. Tiagau	< 1	4	12.0	4	1
13	H059	1399.45	4722.16	Sungai Tiagau	S. Mawing	< 1	3	18.0	4	2
14	R015	1406.37	4727.35	Sungai Tiagau	S. Mawing	< 1	2	7.0	2	2
15	R016	1406.35	4727.93	Sungai Tiagau	S. Mawing	< 1	2	6.0	3	1
16	S019	1401.00	4723.63	Sungai Tiagau	S. Mawing	1	3	8.0	2	3
17	M053	1417.24	4710.40	Sungai Tiagau	S. Gukuam	< 1	2	5.0	1	3
18	M058	1420.65	4712.95	Sungai Tiagau	S. Gukuam	1	3	5.0	2	2
19	D015	1420.85	4712.33	Sungai Tiagau	S. Gukuam	< 1	3	10.0	4	1
20	D016	1422.80	4711.73	Sungai Tiagau	S. Gukuam	1	2	9.0	4	2
21	M062	1424.00	4718.17	Sungai Tiagau	—	< 1	2	7.0	2	2
22	D011	1415.35	4708.65	Sungai Tiagau	S. Tapie	< 1	2	7.0	4	2
23	D012	1408.48	4718.62	Sungai Tiagau	S. Luasong	< 1	3	10.0	3	1
34	D013	1412.00	4721.98	Sungai Tiagau	S. Luasong	< 1	2	9.0	3	1
25	D014	1409.95	4721.12	Sungai Tiagau	S. Luasong	< 1	3	6.0	1	1
26	S020	1414.90	4727.14	Sungai Tiagau	S. Geminchau	< 1	2	5.0	2	3
27	S021	1422.55	4723.23	Sungai Tiagau	—	1	2	6.0	2	3
28	S022	1423.00	4725.77	Sungai Tiagau	—	< 1	2	5.0	2	3
29	H050	1413.92	4742.72	Sungai Umas Umas	S. Muntai	6	3	10.0	3	3
30	H051	1412.00	4741.17	Sungai Umas Umas	S. Bang	5	2	2.0	2	3
31	H053	1411.10	4737.57	Sungai Umas Umas	S. Brantian	11	3	14.0	3	3
32	R003	1418.23	4734.75	Sungai Umas Umas	S. Brantian	2	3	20.0	4	1
33	R012	1422.27	4735.10	Sungai Umas Umas	S. Brantian	6	3	10.0	3	1
34	M036	1414.25	4742.50	Sungai Umas Umas	S. Gumbal	26	3	10.0	3	2
35	M039	1419.35	4743.87	Sungai Umas Umas	S. Gumbal	6	2	8.0	3	2
36	M048	1412.10	4735.90	Sungai Umas Umas	S. Geminchau	3	2	20.0	3	2
37	M049	1415.90	4733.95	Sungai Umas Umas	S. Brantian	3	2	3.0	4	1
38	S015	1406.48	4739.60	Sungai Umas Umas	S. Brantian	3	3	5.0	3	3
39	S016	1406.42	4741.34	Sungai Umas Umas	S. Toe	1	1	1.0	0	3
40	S017	1408.80	4738.26	Sungai Umas Umas	S. Serapi	1	2	4.0	2	3
41	S018	1402.77	4737.88	Sungai Umas Umas	S. Sirad Besar	1	2	3.0	2	3
42	B012	1397.88	4755.57	Sungai Umas Umas	S. Umas Umas	5	4	15.0	3	3
43	B013	1406.00	4753.30	Sungai Umas Umas	S. Umas Umas	6	2	3.0	2	1
44	B015	1410.30	4756.20	Sungai Umas Umas	S. Umas Umas	3	3	3.0	3	1
45	B016	1403.45	4751.45	Sungai Umas Umas	S. Umas Umas	2	2	9.0	3	2
46	B017	1404.00	4752.55	Sungai Umas Umas	S. Umas Umas	1	4	15.0	4	2
47	B018	1408.10	4753.23	Sungai Umas Umas	S. Umas Umas	2	3	8.0	3	2
48	B020	1417.65	4756.25	Sungai Umas Umas	S. Umas Umas	6	3	12.0	0	3
49	B021	1418.70	4756.62	Sungai Umas Umas	S. Umas Umas	7	3	8.0	2	1
50	B022	1404.38	4748.89	Sungai Umas Umas	S. Umas Umas	3	2	3.0	4	2

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)

Ser. No.	Sample No.	Coordinates		Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow *1	Size *2
		N	E							
51	B029	1399.40	4739.83	Sungai Umas Umas	S. Brantian	7	4	20.0	3	3
52	B030	1397.20	4743.85	Sungai Umas Umas	—	2	2	8.0	3	3
53	B031	1399.30	4732.43	Sungai Umas Umas	—	5	3	7.0	0	3
54	M013	1400.80	4765.20	Sungi Tingkayu	S. Merutai Besar	3	2	5.0	3	3
55	M014	1401.00	4766.25	Sungi Tingkayu	S. Merutai Besar	82	2	7.0	2	3
56	A005	1413.65	4760.50	Sungai Tingkayu	S. Umas Umas	8	2	2.0	3	1
57	A006	1414.70	4760.20	Sungai Tingkayu	S. Umas Umas	5	2	3.5	4	1
58	A007	1420.30	4765.25	Sungai Tingkayu	S. Tingkayu	8	3	4.5	3	1
59	A008	1420.70	4765.80	Sungai Tingkayu	S. Tingkayu	12	2	5.0	3	1
60	M027	1401.20	4766.25	Sungai Tingkayu	S. Merutai Besar	8	2	10.0	2	2
61	M028	1401.55	4766.10	Sungai Tingkayu	S. Merutai Besar	2	3	10.0	3	3
62	H041	1420.65	4784.05	Sungai Tingkayu	S. Tingkayu	18	3	12.0	2	3
63	R001	1420.40	4783.90	Sungai Tingkayu	S. Tingkayu	5	2	8.0	3	1
64	H045	1417.85	4778.70	Sungai Tingkayu	S. Binuang	8	3	4.0	2	3
65	S014	1399.15	4786.00	Sungai Tingkayu	S. Malati	72	2	6.0	4	2
66	H046	1417.65	4781.85	Sungai Tingkayu	S. Binuang	3	2	4.0	3	3
67	M024	1404.44	4770.45	Sungai Tingkayu	S. Merotai Besar	27	2	6.0	3	1
68	B044	1423.35	4773.50	Sungai Tingkayu	S. Tingkayu	6	2	4.0	4	3
69	B048	1422.30	4772.80	Sungai Tingkayu	S. Tingkayu	30	2	3.0	3	3
70	B049	1423.35	4773.45	Sungai Tingkayu	S. Tingkayu	34	3	10.0	3	3
71	B054	1420.75	4769.15	Sungai Tingkayu	S. Tingkayu	6	2	5.0	2	3
72	M064	1414.85	4775.50	Sungai Tingkayu	S. Binuang	4	3	8.0	2	3
73	S023	1408.95	4779.15	Sungai Tingkayu	S. Langein	27	3	5.0	3	3
74	S024	1406.90	4779.00	Sungai Tingkayu	S. Durian	104	2	5.0	3	3
75	S025	1406.95	4778.75	Sungai Tingkayu	S. Tingkayu	149	2	6.0	3	3
76	T069	1408.95	4782.30	Sungai Tingkayu	S. Kalumpang		4	18.0	3	2
77	T070	1409.10	4782.45	Sungai Tingkayu	S. Jirangku	9	2	3.0	3	2
78	M001	1376.65	4775.60	Tawau North	S. Tawau	96	2	7.0	3	3
79	M002	1380.69	4776.52	Tawau North	S. Tawau	424	3	16.0	3	3
80	M004	1382.00	4776.20	Tawau North	S. Tawau	120	3	8.0	3	3
81	M005	1381.98	4776.52	Tawau North	S. Tawau	150	3	2.0	2	3
82	H009	1380.40	4786.94	Tawau North	S. Apas Kiri	45	3	7.0	3	2
83	M007	1394.16	4771.44	Tawau North	S. Merotai Besar	62	2	8.0	4	1
84	M008	1394.48	4771.57	Tawau North	S. Merotai Besar	21	3	10.0	2	2
85	M011	1390.55	4766.10	Tawau North	S. Merotai	120	2	15.0	2	2
86	M012	1394.15	4761.67	Tawau North	S. Merotai Besar	4	2	1.0	2	3
87	T024	1369.38	4783.12	Tawau North	S. Tiku	218	2	5.0	3	2
88	T025	1369.80	4781.92	Tawau North	S. Kinabatan B.	138	3	5.0	2	3
89	B001	1379.84	4768.50	Tawau North	S. Merotai Kecil	774	2	2.0	4	2
90	B002	1385.20	4764.40	Tawau North	S. Merotai Kecil	707	3	5.0	1	3
91	B005	1390.33	4768.35	Tawau North	S. Merotai Kecil	50	3	10.0	3	1
92	B008	1389.70	4761.88	Tawau North	S. Merotai Besar	20	3	10.0	1	3
93	B009	1370.30	4775.60	Tawau North	S. Tawau	445	4	12.0	4	3
94	B010	1395.13	4764.08	Tawau North	S. Merotai Besar	2	2	3.0	2	3
95	B024	1370.76	4776.77	Tawau North	S. Tawau	44	3	2.5	4	2
96	H014	1408.60	4806.38	Mostyn	S. Limau	100	3	7.0	4	3
97	H017	1410.82	4801.62	Mostyn	S. Limau	14	1	3.0	4	3
98	H018	1410.95	4801.85	Mostyn	S. Limau	34	3	5.0	4	3
99	D002	1420.69	4295.70	Mostyn	S. Tingkayu	7	2	5.0	4	1
100	H020	1421.33	4809.08	Mostyn	S. Matarid	14	2	3.0	2	1

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)

Ser. No.	Sample No.	Coordinates		Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow *1	Size *2
		N	E							
101	H021	1420.20	4810.23	Mostyn	S. Lormalang	30	2	4.0	3	2
102	H023	1409.13	4800.85	Mostyn	S. Kalumpang	3	3	4.0	2	3
103	H024	1407.10	4804.55	Mostyn	S. Kalumpang	8	2	5.0	2	3
104	S008	1397.81	4792.70	Mostyn	S. Mantri	285	2	6.0	3	2
105	D003	1403.20	4812.61	Mostyn	S. Kalumpang	20	3	6.0	4	1
106	D004	1423.95	4805.82	Mostyn		23	2	2.0	3	1
107	H037	1420.15	4792.18	Mostyn	S. Binuang	4	3	7.0	2	3
108	H038	1417.50	4791.16	Mostyn	S. Binuang	10	2	4.0	2	3
109	T035	1404.30	4797.19	Mostyn	S. Mantri	50	2	6.0	2	2
110	T036	1410.86	4790.15	Mostyn	S. Kalumpang	21	2	3.8	2	2
111	T038	1407.56	4789.64	Mostyn	S. Malati	275	3	6.0	3	2
112	T039	1407.50	4789.35	Mostyn	S. Malati	97	2	5.5	3	2
113	M029	1410.40	4789.60	Mostyn	S. Kara	94	2	10.0	2	2
114	S010	1400.82	4793.88	Mostyn	S. Mantri	50	2	6.0	2	3
115	S011	1401.16	4793.98	Mostyn	S. Mantri	23	2	2.0	2	3
116	S012	1401.43	4795.50	Mostyn	S. Mantri	151	2	5.0	3	3
117	S013	1402.78	4789.15	Mostyn	S. Malati	290	2	6.0	3	3
118	T063	1410.67	4794.05	Mostyn	S. Kalumpang	23	2	2.0	3	2
119	T067	1409.08	4798.00	Mostyn	S. Kalumpang	11	2	1.5	3	2
120	T068	1407.12	4799.15	Mostyn	S. Mantri	16	3	8.0	2	2
121	H062	1417.40	4788.90	Mostyn	S. Binuang	6	1	3.0	3	2
122	H063	1417.15	4788.45	Mostyn	S. Binuang	7	3	5.0	3	3
123	S001	1375.10	4797.18	Apas-Balang	S. Gading	116	3	4.0	2	3
124	T001	1373.67	4797.36	Apas-Balang	S. Gading	54	3	4.0	2	3
125	T002	1372.55	4793.90	Apas-Balang	S. Apas	312	3	8.0	2	3
126	T004	1380.38	4789.82	Apas-Balang	S. Apas	635	2	6.5	3	2
127	H004	1390.00	4811.45	Apas-Balang	S. Pang Burong	5	3	6.0	3	3
128	A001	1381.15	4805.76	Apas-Balang	S. Balung	52	2	4.0	2	3
129	A002	1385.00	4801.10	Apas-Balang	S. Balung Kanan	36	2	3.5	3	1
130	A003	1382.95	4802.33	Apas-Balang	S. Balung	164	3	5.0	4	1
131	A004	1392.80	4810.60	Apas-Balang	S. Pang Burong	3	2	4.0	2	2
132	H005	1396.38	4808.90	Apas-Balang	S. Tundang	5	3	5.0	3	1
133	T007	1387.95	4797.35	Apas-Balang	S. Balung	45	2	4.0	3	2
134	T008	1389.80	4795.36	Apas-Balang	S. Balung	628	3	7.0	2	3
135	T011	1395.92	4800.28	Apas-Balang	S. Mantri	162	2	8.0	3	2
136	H006	1373.65	4800.84	Apas-Balang	S. Wakuba	38	2	5.0	1	3
137	H007	1374.12	4803.70	Apas-Balang	S. Jerangan	6	2	6.0	0	4
138	T013	1368.10	4788.40	Apas-Balang	S. Membalua	48	2	6.0	2	3
139	D001	1389.15	4789.00	Apas-Balang	S. Balung	88	2	8.0	4	1
140	T029	1394.35	4815.10	Apas-Balang	S. Kalumpang	11	2	5.0	2	3
141	T058	1389.37	4789.05	Apas-Balang	S. Balung	434	2	6.0	3	2
142	S007	1399.06	4834.87	Pulau Timbun Mata	—	9	1	1.0	2	2
143	T044	1399.10	4831.95	Pulau Timbun Mata	—	41	3	4.0	2	2
144	T046	1397.30	4836.60	Pulau Timbun Mata	S. Sing Sing	522	2	2.0	2	2
145	T050	1404.97	4827.92	Pulau Timbun Mata	S. Sipit Lahungi	178	3	6.0	2	3
146	T051	1403.52	4828.51	Pulau Timbun Mata	—	9	2	5.0	2	3
147	T052	1403.05	4829.70	Pulau Timbun Mata	S. Sipit	8	3	60.0	2	4
148	T055	1406.90	4897.16	Pulau Timbun Mata	—	285	2	2.5	2	2
149	T056	1411.04	4820.15	Pulau Timbun Mata	S. Sapang	19	3	3.5	3	2
150	S002	1387.23	4818.84	Kalumpang	S. Kalumpang	50	2	1.0	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)

Ser. No.	Sample No.	Coordinates		Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow *1	Size *2
		N	E							
151	T015	1387.55	4816.50	Kalumpang	S. Kalumpang	71	2	2.5	2	3
152	S004	1384.89	4825.17	Kalumpang	S. Gading Gading	10	2	5.0	2	2
153	T018	1387.73	4824.42	Kalumpang	S. Gading Gading	39	3	5.0	3	2
154	T019	1381.46	4835.72	Kalumpang	S. Mantaritip	3	2	2.0	2	3
155	T020	1381.60	4836.09	Kalumpang	S. Mantaritip	32	2	5.0	2	2
156	T023	1383.55	4833.37	Kalumpang	S. Mantaritip	11	1	2.5	4	2
157	S006	1394.00	4831.93	Kalumpang	S. Separong	72	2	3.0	2	3
158	T030	1386.57	4821.36	Kalumpang	S. Pinang Besar	6	2	3.0	2	3
159	T047	1390.15	4840.70	Kalumpang	S. Gading	61	3	6.0	2	3
160	T042	1394.22	4831.56	Kalumpang	S. Separong	2	2	2.5	2	2

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 17

Results of qualitative mineral examination
of pan concentrates in the Semporna area

Area: Semporna area

Ser. No.	Sample No.	Native gold	Magnetite	Chromite	Spinel	Hematite	Ilmenite	Leucoxene	Rutile	Brookite	Anatase	Cassiterite	Marcasite	Pyrite	Coethite	Chalcopyrite	Bornite	Augite	Hypersthene	Hornblende	Actinolite	Clinozoisite	Tourmaline	Garnet	Zircon	Monazite	Quartz	Plagioclase	Clastics	Calcite	Topaz
1	B060		Tr				6	Tr	Tr					Tr	Tr								Tr	18	Tr	76	Tr				
2	B061		Tr			Tr	8	Tr	Tr														Tr	12	Tr	80	Tr				
3	B063		15				12	Tr	Tr	Tr					22								Tr	6	Tr	42	3				
4	D010		Tr				44		Tr		Tr			Tr					Tr				Tr	24	Tr	32	Tr				
5	D018		Tr		Tr		3							Tr	8									Tr	79	Tr	10				
6	B064		4				20	Tr	Tr	Tr	Tr			8	Tr								Tr	19	Tr	49	Tr				
7	B065		4				20	Tr	Tr	Tr				Tr					Tr				Tr	26	Tr	50	Tr				
8	M054		Tr				Tr							3	22											61	4	10			
9	B057		1				3		Tr					2	2								Tr	3		84	Tr	5			
10	B059		Tr				3	Tr	Tr	Tr	Tr			2	2								Tr	1	Tr	92	Tr				
11	M056		Tr				Tr			3				Tr	2										Tr		90	Tr	5		
12	D017		Tr				2	Tr	Tr					Tr	Tr								Tr	Tr	Tr	97	1				
13	H059		2	22			25	Tr	Tr	6				3	1								Tr	8	4	29	Tr				
14	R015		Tr				2	Tr		4				Tr	Tr								Tr	Tr	Tr	94	Tr				
15	R016		1				36	Tr	Tr	11				Tr	2								Tr	1	Tr	16	Tr				
16	S019		Tr	9			3	Tr		4				Tr									Tr	6	Tr	78	Tr				
17	M053		Tr				2		Tr					Tr	3								Tr	Tr	Tr	94	1				
18	M058		Tr				Tr	Tr						6										Tr	Tr	91	3				
19	D015						4	Tr	Tr	Tr	Tr			Tr	51		Tr							Tr	Tr	43	2		Tr		
20	D016						4	Tr	Tr	Tr	Tr			3	64	Tr	Tr							Tr	Tr	24	5		Tr	Tr	
21	M062		Tr				11	Tr	Tr	Tr				Tr	14								Tr	Tr	3	2	70	Tr			
22	D011		1	26			6	Tr	Tr	Tr	Tr			Tr	Tr								Tr	Tr	50	11	6				
23	D012		3	Tr			8	Tr	Tr	Tr				Tr	32			Tr	Tr			Tr		3	Tr	54	Tr				
34	D013		Tr	3			2	Tr	Tr	Tr				12	12							Tr	Tr	1	Tr	70	Tr				
25	D014		Tr	2			3	Tr	Tr	Tr	Tr			3	7				Tr				Tr	Tr	5	2	78	Tr			
26	S020		1	6			18	Tr	Tr	Tr	Tr			33	Tr	Tr							Tr	Tr	11	Tr	31	Tr			
27	S021		Tr				5	Tr	Tr					Tr	Tr								Tr	Tr	3	Tr	32	Tr			
28	S022		3	3	Tr	Tr	11	Tr	Tr					Tr	6			Tr	Tr				Tr	Tr	1	Tr	49	Tr			
29	H050		2	53			4	Tr	Tr					Tr	Tr			Tr	Tr				Tr	Tr	1	Tr	38	Tr			
30	H051		2	11			Tr					Tr		Tr	Tr						Tr	Tr		Tr	Tr	87	Tr				
31	H053		10	38	Tr		36		Tr					Tr	3		Tr			1	Tr	Tr	Tr	Tr		11	1				
32	R003		13	8	Tr		23							Tr	37			Tr	Tr	7	Tr	Tr	Tr	Tr		11	1				
33	R012		2	Tr			2					Tr		3					Tr	Tr	Tr	Tr	Tr	Tr		93	Tr				
34	M036		18	6			23							2					2	4	16	Tr	Tr	Tr	Tr	27	2				
35	M039		7	3	Tr		9	Tr	Tr					1						Tr	Tr	Tr	Tr	5	Tr	75	Tr				
36	M048		2	3			2	Tr	Tr	Tr				Tr	Tr				Tr	Tr		Tr	Tr	Tr	Tr	93	Tr				
37	M049		9	25			19	Tr	Tr					Tr	1			Tr	Tr				Tr	Tr	Tr	46	Tr			Tr	
38	S015		3	63			Tr		3		Tr			Tr									Tr	Tr	17	1	8	Tr			
39	S016			2			Tr		Tr					Tr	2									Tr	Tr	Tr	96	Tr			
40	S017		8	3	Tr		12		Tr					Tr							Tr	Tr	Tr	Tr	Tr	77	Tr				
41	S018		Tr				8	Tr		Tr	Tr												Tr	Tr	6		86	Tr			
42	B012		2				18		Tr	Tr			46		Tr								Tr	Tr	1	Tr	33	Tr			
43	B013		Tr				Tr		Tr	Tr				Tr	12									Tr	Tr	Tr	88	Tr			
44	B015		3				55	Tr	Tr				1	Tr	4								Tr		4	Tr	33	Tr			
45	B016		6		Tr		50	Tr	Tr	Tr	Tr			Tr	5				Tr				Tr	Tr	Tr	39					
46	B017		1	14			2	Tr		Tr				Tr	4			Tr					Tr	Tr	Tr	79	Tr				
47	B018		6	74		Tr	10		Tr					Tr	Tr								Tr	Tr	1	1	9	Tr		Tr	
48	B020		1	41		Tr	7				Tr			Tr	Tr								Tr	Tr	1	1	50	Tr			
49	B021		1				Tr						Tr	6	Tr									Tr	Tr	Tr	93	Tr			
50	B022		1	2			2	Tr						4	2							Tr	Tr	Tr	Tr	Tr	89	Tr			

Ser. No.	Sample No.	Native gold	Magnetite	Chromite	Spinel	Hematite	Ilmenite	Leucosene	Rutile	Brookite	Anatase	Marcasite	Pyrite	Goethite	Augite	Hypersthene	Hornblende	Actinolite	Clinozoisite	Tourmaline	Garnet	Zircon	Quartz	Plagioclase	Clastics	Biotite	
51	B029		10	19	Tr	Tr	19		Tr	Tr	Tr		Tr	Tr	Tr	Tr	Tr	Tr	Tr		Tr	2	50	Tr			
52	B030		1				3	Tr	Tr				Tr	Tr								Tr	96				
53	B031		1	34		Tr	3	Tr	Tr	Tr			Tr	Tr	Tr						Tr	62					
54	M013		1	5			Tr		Tr			5	Tr	9				Tr				1	79	Tr			
55	M014		47	12	Tr	1	32						Tr	Tr	6	1							30	Tr			
56	A006		Tr									Tr	Tr	Tr									82		70		
57	A006		Tr	14			2		Tr	Tr		2	Tr	Tr								Tr					
58	A007		5	93			Tr		Tr				Tr	Tr							Tr		2				
59	A008		3	94		Tr							Tr	Tr								Tr	3				
60	M027		24		Tr	Tr	3		Tr				Tr	Tr	3	Tr						Tr	70				
61	M028		3	75		Tr	Tr		Tr	Tr			4	2								Tr	1	15	Tr		
62	H041		3	51			7							Tr	5	Tr					Tr	Tr	32	2			
63	R001		6	46		Tr	12		Tr					Tr	2	Tr	Tr					Tr	31	3			
64	H045		2	15			5							Tr	Tr		Tr		Tr	Tr		1	77	Tr			
65	S014		48	27		9	3							Tr	1	11							1	Tr			
66	H046		2	12		Tr	2	Tr						Tr	3	Tr						Tr	3	73	5		
67	M024		40	5		1	2							1	Tr								49	2			
68	B044		12	1			14	Tr						1	3	Tr			Tr	Tr		Tr	66	3			
69	B048		29	27			32							Tr	1	Tr	Tr				Tr	Tr	10	1			
70	B049		11	80			1							Tr	Tr	Tr	Tr				Tr	Tr	7	1			
71	B054		14	24			12		Tr					1	3	Tr	Tr	Tr				1	44	1			
72	M064		4	5			2		Tr					Tr	3						Tr	Tr	81	5			
73	S023		42				57								Tr	1						Tr	Tr				
74	S024		78				14							1	7	Tr						Tr	Tr				
75	S025		48				46						Tr	1	5	Tr							Tr				
76	T069		54				39							1	5	5						Tr	1	Tr			
77	T070		24				21		Tr			Tr		Tr	2			Tr					52	1			
78	M001		32				65							Tr	1	Tr	Tr					1	1				
79	M002		63				36							Tr	Tr	Tr			Tr			1	Tr	Tr		Tr	
80	M004		66				32							Tr	1	Tr	Tr			Tr		Tr	1	Tr		Tr	
81	M005		66				30							Tr	Tr	4	Tr					Tr	Tr			Tr	
82	H009		59				33							Tr	1	4	Tr					Tr	Tr	3	Tr	Tr	
83	M007		70				25	Tr				Tr	Tr	Tr	4	Tr					Tr	Tr	1	Tr		Tr	
84	M008		50				19	Tr	Tr					Tr	28	Tr					Tr	Tr	3	Tr			
85	M011		38				19							1	37								5	Tr			
86	M012		6				26	Tr	Tr												Tr	Tr	68	Tr			
87	T024		21				75	Tr								1	Tr					Tr	Tr	3	Tr		
88	T025		27			Tr	70									1	Tr					Tr	Tr	2	Tr		
89	B001		28				70							Tr	Tr	Tr						Tr	Tr	2			
90	D002		43				46							Tr	Tr	Tr					Tr	Tr	11	Tr			
91	B005		39				47								Tr		Tr					Tr	Tr	14	Tr		
92	B008		38		Tr		48							Tr	Tr	Tr			Tr		Tr	Tr	14	Tr			
93	B009		43				42							Tr	Tr	2	2					Tr	Tr	11	Tr		Tr
94	B010		36				60		Tr					Tr	Tr							Tr	Tr	4	Tr		
95	B024		40				32								2	2	1					Tr	Tr	25	Tr		Tr
96	H014		14				85	Tr						Tr	Tr	Tr					Tr	Tr	1	Tr			
97	H017		17				57							Tr	Tr	Tr						Tr	Tr	24	2		
98	H018		16				76	Tr						Tr	Tr	Tr							7	1			
99	D002		8				91	Tr	Tr		Tr											Tr	1	Tr			
100	H020		4				73					Tr	Tr	2	Tr				Tr			Tr	Tr	21			

Ser. No.	Sample No.	Native gold	Magnetite	Chromite	Hematite	Ilmenite	Leucosene	Rutile	Anatase	Pyrite	Goethite	Olivine	Augite	Hypersthene	Hornblende	Actinolite	Clinozoisite	Tourmaline	Garnet	Zircon	Quartz	Plagioclase	Biotite	
101	H021		1			3					Tr		21	Tr	Tr	2	Tr				68	5		
102	H023		15			17	Tr			Tr	Tr										68	Tr		
103	H024		19			48					Tr		1	5	Tr						27	Tr		
104	S008		55		Tr	37	Tr				Tr		Tr	7	Tr					Tr	1	Tr		
105	D003		34			53	Tr				Tr		Tr	11	Tr						2	Tr		
106	D004		3			53							Tr							Tr	44	Tr		
107	H037		5			68	1	Tr					Tr				Tr		Tr	2	24	Tr		
108	H038		11			86		Tr					Tr	Tr						Tr	3	Tr		
109	T035		31			49	Tr				Tr		Tr	5	Tr						15	Tr		
110	T036		55			33			Tr		Tr		Tr								Tr	12	Tr	
111	T038		54			27	Tr						Tr	18	Tr							1	Tr	
112	T039		65			2							2	31								Tr	Tr	
113	H023		43			47							Tr	5							Tr	5	Tr	
114	S010		45			28	Tr						1	13	Tr							13	Tr	
115	S011		37			16	Tr						1	38	Tr							8	Tr	Tr
116	S012		29			70	Tr						Tr	1								Tr	Tr	
117	S013		57			7	Tr				Tr		1	33	Tr							2	Tr	
118	T063		31			60	Tr				Tr		Tr								Tr	9	Tr	
119	T067		39			44	Tr				Tr		Tr	1	Tr						Tr	16	Tr	
120	T068		30			49	Tr				Tr		1	18	Tr							2	Tr	
121	H062		12			60	Tr	Tr			2										Tr	25	1	
122	H063		19			44					Tr		Tr	2	Tr							35	Tr	
123	S001		25		Tr	63	Tr														Tr	12	Tr	
124	T001		38			22	Tr						Tr								8	32		
125	T002		33			61							Tr	1	Tr						1	4		
126	T004		36			61							Tr	1	Tr						Tr	2	Tr	
127	H004	Tr	13			67	3						Tr	Tr			Tr	Tr	Tr		Tr	17	Tr	
128	A001		14			85	Tr						Tr	Tr							Tr	1	Tr	
129	A002		11			74	2						Tr	2							Tr	9	2	
130	A003	Tr	20			76	1						Tr	1	Tr						Tr	2	Tr	
131	A004		8			89	1														Tr	2	Tr	
132	H005	Tr	21			74	1			Tr	1		Tr	Tr							Tr	3	Tr	
133	T007		18			76	Tr			Tr	Tr		1	3	Tr		Tr					1	1	
134	T008		34			64				Tr			Tr	1	Tr		Tr					1	Tr	
135	T011	Tr	32			64	1			Tr	1		Tr	1							Tr	1	1	
136	H006		31			47	Tr						Tr	Tr							2	19	1	
137	H007		35			38	1						Tr	Tr	Tr						7	19	Tr	
138	T013		23			52	Tr						Tr	Tr	Tr							24	Tr	
139	D001		61			37	Tr						Tr	Tr	1						Tr	1	Tr	
140	T029		17			44							Tr	1								38	Tr	
141	T058		66			33	Tr					16	Tr	Tr	1	Tr					Tr	Tr	Tr	3
142	S007		21			12	1						Tr	Tr								47	3	
143	T044		27			71	Tr						Tr	1	Tr							1	Tr	
144	T046		22			77							Tr					Tr				1	Tr	
145	T050		5	9		83							Tr								Tr	3	Tr	
146	T051		3	6		61		Tr													Tr	30	Tr	
147	T052		4	21		60															Tr	15	Tr	
148	T055		6	87		5							Tr	Tr							Tr	2	Tr	
149	T056		2	80		15							Tr								Tr	2	1	
150	S002		15	13		70												Tr			Tr	2	Tr	

Ser. No.	Sample No.	Native gold	Magnetite	Chromite	Hematite	Ilmenite	Leucoxene	Rutile	Marcasite	Pyrite	Goethite	Olivine	Augite	Hypersthene	Hornblende	Actinolite	Clinozoisite	Tourmaline	Garnet	Zircon	Quartz	Plagioclase	Biotite
151	T015		18			72								Tr						Tr	10	Tr	
152	S004		22			3	Tr				3		11							Tr	54	7	
153	T018		19			55	Tr				Tr		1	Tr			5			Tr	20	Tr	
154	T019		5			61	Tr				Tr						Tr			Tr	10	24	
155	T020		5			68					Tr		Tr	Tr			8				6	13	
156	T023		43			40	Tr			Tr	Tr						1				16	Tr	
157	S006		40			56							2	Tr	Tr		Tr				2	Tr	
158	T030		10			22	Tr		1				Tr	Tr	Tr					Tr	67	Tr	
159	T047		5			94							Tr	1							Tr	Tr	
160	T042		29			46				1	2		2	Tr			13		Tr		7	Tr	

Appendix 18

Analytical results of rock geochemical
samples in the Semporna 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	Mb ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1	M057	1	1	189	18	117	32	34	1.88	1.78	310	1	1.23	64	6	.375	8.4	34	.45	.2	6	84
2	M052	1	1	107	20	67	15	34	1.02	1.78	1137	1	.59	39	2	.300	6.7	78	.27	1.6	80	57
3	B062	4	1	144	21	59	18	45	1.16	.96	135	1	1.07	42	3	.335	5.6	105	.38	.2	52	74
4	M060	1	1	147	19	61	20	22	.86	.82	52	1	.99	54	2	.088	4.4	80	.33	.2	38	82
5	R005	1	1	10	15	142	27	10	.08	2.34	5	1	2.87	65	2	.091	.2	133	.05	.2	63	24
6	R005	1	1	63	4	15	24	10	1.12	.50	3926	2	3.30	12	2	.094	.2	210	.44	.8	5	23
7	R010	1	1	19	41	511	85	10	.04	5.76	339	1	2.45	168	2	.096	.2	146	.14	.2	33	53
8	M041	1	1	10	42	344	77	10	.11	5.47	254	1	2.70	190	2	.077	2.3	162	.13	.2	13	66
9	M050	5	1	112	20	40	9	10	.55	.49	152	1	.76	35	9	.027	9.8	50	.22	2.2	120	36
10	H052	1	1	236	51	160	55	14	.36	3.46	635	1	4.65	201	2	.044	14.0	239	2.03	1.0	21	120
11	M038	7	1	89	35	28	7	14	.64	.47	58	1	.80	17	5	.013	3.6	42	.21	.2	255	31
12	M044	1	1	11	47	323	2	10	.05	6.05	592	1	2.67	144	2	.058	.2	73	.40	.2	24	64
13	H049	3	1	82	37	32	7	10	.43	.39	5	1	.66	18	10	.051	3.2	48	.21	1.8	339	32
14	B027	11	1	10	110	902	13	10	.01	21.33	522	1	.01	2181	2	.010	.2	3	.01	.2	3	180
15	M034	1	1	111	45	43	48	15	.37	2.87	1648	1	1.72	20	2	.057	4.8	354	.48	.6	61	82
16	H044	1	1	16	35	27	100	10	.03	1.98	534	1	3.73	21	2	.063	3.9	48	.37	.2	83	62
17	H039	1	1	88	32	30	9	11	.43	.45	46	1	.55	22	4	.090	4.1	28	.19	2.2	250	43
18	M017	6	1	89	37	57	15	22	.60	.60	152	1	.58	32	2	.067	3.2	51	.20	1.2	230	49
19	M025	1	1	83	32	15	67	55	.67	1.44	3257	1	3.71	17	2	.142	7.1	138	.51	1.4	5	87
20	H042	1	1	48	43	80	36	10	.32	3.69	1224	1	3.18	48	2	.045	12.0	86	1.17	.2	11	111
21	M031	1	1	401	11	16	31	15	.72	1.30	1228	1	1.52	14	2	.125	6.3	438	.36	.8	5	65
22	M066	23	1	133	100	18	63	2905	.05	.01	5	2	.10	15	2	.4307	4.6	363	.40	1.2	133	10
23	T061	1	1	257	41	197	37	16	.80	2.82	602	1	2.43	134	2	.058	12.9	270	1.23	1.0	38	104
24	M003	2	1	267	42	148	61	10	1.58	3.27	761	1	2.01	34	2	.049	3.8	334	.36	1.6	146	73
25	T048	1	1	172	26	19	24	95	.55	2.39	5	2	.84	19	2	.064	5.9	198	.30	.2	17	68
26	T040	1	1	370	21	15	40	10	.92	1.55	1593	2	1.59	8	2	.035	8.9	842	.46	.6	26	26
27	H025	1	1	355	56	215	52	10	.38	3.96	1289	1	2.11	203	2	.039	12.3	234	1.45	.2	14	135
28	T064	1	1	262	28	38	23	25	.82	1.71	622	1	2.22	28	2	.106	11.8	195	.38	.8	41	73
29	T066	1	1	171	25	24	14	105	.62	.88	2118	1	2.94	14	2	.094	2.3	255	.38	.8	90	60
30	T034	1	1	321	21	22	29	19	1.53	1.79	502	1	2.17	11	2	.068	6.7	411	.36	1.0	36	73
31	T039	1	1	174	49	21	150	1126	.06	.02	5	2	.20	40	2	.7944	6.5	448	1.12	2.8	8	12
32	H025	1	1	186	55	236	47	10	.64	3.50	794	1	2.77	157	2	.048	8.6	310	1.29	.2	104	114
33	H022	1	1	508	27	67	38	15	.78	1.83	2013	1	2.45	31	2	.093	12.4	419	.42	.4	16	74
34	H015	1	1	512	48	21	29	10	1.59	2.31	1309	1	2.38	13	2	.047	3.3	395	.44	1.2	215	76
35	H028	1	1	442	17	163	31	33	.63	1.59	4950	1	2.25	35	2	.238	8.1	535	.48	.6	12	81
36	H013	6	1	586	16	31	19	39	.76	1.06	534	1	2.86	25	2	.086	7.4	590	.36	.6	34	58
37	H027	1	1	51	41	94	81	10	.51	2.89	1681	1	1.40	82	2	.081	.2	90	.50	.4	28	79
38	T010	1	1	276	20	10	30	10	1.54	2.14	187	1	1.88	7	2	.042	10.0	329	.33	.2	23	69
39	H012	4	1	20	41	15	2	10	.01	.01	59	2	.01	9	2	.012	6.6	9	.67	1.4	139	3
40	H001	14	23	154	53	27	18	15	5.23	.37	1	3	.22	18	6	3.265	3.8	87	.42	1.6	143	73
41	H029	1	1	10	107	1611	5	12	.01	20.09	888	1	.04	2182	2	.015	.2	3	.02	.2	2	172
42	T041	1	1	192	30	44	43	301	.47	2.06	731	1	3.08	26	2	.108	11.5	140	.48	.4	17	92
43	T057	1	1	32	47	315	74	14	.18	5.55	1868	1	2.72	170	2	.081	9.8	91	.61	.4	13	93
44	H031	1	1	10	109	398	6	12	.01	21.32	821	1	.02	2183	2	.012	.2	2	.01	.2	2	178
45	T045	1	1	1636	38	43	59	10	1.38	2.89	1454	1	2.20	22	2	.122	7.0	563	.41	1.4	66	148
46	S003	1	1	214	29	23	45	10	.72	1.44	1339	1	2.60	4	2	.049	7.9	240	.57	.6	94	94
47	T016	1	1	177	25	24	72	10	.59	1.28	978	1	2.35	15	2	.058	2.2	261	.59	.6	132	73
48	T028	1	1	655	8	18	3	10	.20	1.14	5	3	2.97	8	2	.319	6.2	137	.27	2.4	61	26
49	T032	2	1	567	29	12	20	10	2.60	.50	983	1	1.51	6	2	.025	7.6	231	.22	2.4	76	72
50	T031	1	1	567	17	8	6	10	2.15	.60	393	2	2.73	4	5	.017	6.2	301	.23	2.8	53	74

Appendix 19

List of samples and analytical results of soil
geochemical samples in the Semporna area

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation	Al %	Co ppm	Cr ppm	Fe %	Ni ppm	Pt ppb
		N	E																
1	R008	1421.08	4737.50	S. Umas Umas	gabbro	Ub	15	R.B.	F	C	M	W	Secondary forest	2.63	31	770	0.81	270	< 5
2	R007	1420.58	4737.13	S. Umas Umas	gabbro	Ub	15	P.B.	F	C	M	W	Secondary forest	2.08	63	553	1.85	284	< 5
3	R009	1419.45	4737.76	S. Umas Umas	gabbro	Ub	10	P.B.	F	C	M	W	Secondary forest	2.20	47	413	1.42	153	< 5
4	M046	1414.25	4737.67	S. Umas Umas	serpentinite	Ub	15	P.B.	F	C	M	W	Secondary forest	1.06	37	354	0.87	188	5
5	H054	1412.65	4736.45	S. Umas Umas	serpentinite	Ub	15	G.	M	S	S	W	Secondary forest	0.57	132	1542	1.84	1807	10
6	M043	1416.40	4740.22	S. Umas Umas	metagabbro	Ub	30	P.B.	F	C	M	W	Secondary forest	2.32	34	610	1.06	133	< 5
7	M042	1419.30	4740.30	S. Umas Umas	metagabbro	Ub	15	B.	M	S	S	W	Secondary forest	2.15	42	340	1.42	117	10
8	A005	1418.67	4750.55	S. Umas Umas	serpentinite	Ub	20	D.B.	M	S	S	W	Secondary forest	0.57	182	2367	2.27	1822	25
9	B026	1417.95	4753.92	S. Umas Umas	serpentinite	Ub	20	B.	F	C	F	W	Secondary forest	0.66	173	1137	1.78	1248	10
10	A005	1417.05	4751.97	S. Umas Umas	serpentinite	Ub	15	D.B.	M	S	S	W	Secondary forest	0.18	246	2253	2.96	3506	15
11	A003	1416.87	4753.44	S. Umas Umas	serpentinite	Ub	20	P.B.	R	C	M	W	Secondary forest	1.47	51	495	1.28	408	< 5
12	A004	1416.55	4752.15	S. Umas Umas	serpentinite	Ub	20	D.B.	M	S	S	W	Secondary forest	0.16	433	2440	2.85	2205	15
13	A002	1412.40	4755.47	S. Umas Umas	serpentinite	Ub	15	D.B.	M	S	S	W	Secondary forest	0.81	195	1564	2.57	1481	10
14	A001	1411.85	4755.57	S. Umas Umas	serpentinite	Ub	20	D.B.	M	S	S	W	Secondary forest	0.18	148	1404	2.44	2929	10
15	B047	1422.40	4772.70	S. Tingkayu	serpentinite	Ub	15	R.B.	F	C	M	W	Secondary forest	1.13	191	3737	3.63	2503	15
16	H030	1407.45	4819.18	P. Timbun Mata	serpentinite	Ub	15	B.	M	S	M	W	Secondary forest	0.49	225	2422	2.32	2007	10
17	H032	1405.94	4823.44	P. Timbun Mata	serpentinite	Ub	20	D.B.	M	S	F	W	Plantation	0.75	251	4175	2.97	1360	15

*1Gravel: Many (M), Few (F), Rare or none (R) **Grain size: Sandy (S), Clayey (C)

**Topography: Steep (S), Moderate (M), Flat (F) **Humidity: Dry (D), Wet (W)

Appendix 20

List of samples for stream sediment geochemical
survey in the Kinabalu/Labuk area

Area: Kinabalu Area

Grid: Kfh

Page 1

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
1	KFh01	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	Y. Gn.
2	KFh02	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.5	3	4	B. Y.
3	KFh03	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.5	3	4	B. Y.
4	KFh04	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	B. Y.
5	KFh05	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	3	D. B.
6	KFh06	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.5	3	2	Y.
7	KFh07	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.5	2	4	B. Y.
8	KFh08	Linkabau	S. Karagasan	sandstone	P ₂ Cr	2	5.0	3	2	Y. B.
9	KFh09	Linkabau	S. Karagasan	sandstone	P ₂ Cr	1	1.0	2	4	Y. B.
10	KFh10	Linkabau	S. Karagasan	sandstone	P ₂ Cr	2	4.0	3	2	Y. B.
11	KFh11	Linkabau	S. Karagasan	sandstone	P ₂ Cr	1	1.0	2	4	Y.
12	KFh12	Linkabau	S. Karagasan	sandstone	P ₂ Cr	2	2.5	4	2	Gn. B.

Area: Kinabalu Area

Grid: KFj

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
13	KFj01	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	1	1	L. B.
14	KFj02	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	1	1	L. B.
15	KFj03	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	1	1	L. B.
16	KFj04	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	2	1	L. B.
17	KFj05	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	1	1	L. B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
18	KGg01	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	1.5	1	1	B.
19	KGg02	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	2	3.0	1	1	B.
20	KGg03	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	3.0	1	1	B.
21	KGg04	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	2.5	2	1	B.
22	KGg05	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	2	5.0	2	1	B.
23	KGg06	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	2.0	1	1	B.
24	KGg07	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	2.0	1	1	B.
25	KGg08	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	1.5	1	1	B.
26	KGg09	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	2	2.0	1	1	B.
27	KGg10	Linkabau	S. Yaiggu	sandstone	P ₂ Cr	1	2.0	1	1	B.
28	KGg11	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	4.0	3	3	Y. B.
29	KGg12	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y. B.
30	KGg13	Linkabau	S. Ogan	—	P ₂ Cr	1	1.0	3	3	Y. B.
31	KGg14	Linkabau	S. Ogan	sandstone	P ₂ Cr	3	5.0	3	3	Y. B.
32	KGg15	Linkabau	S. Ogan	sandstone	P ₂ Cr	2	3.0	3	3	Y. B.
33	KGg16	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y. B.
34	KGg17	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y. B.
35	KGg18	Linkabau	S. Ogan	—	P ₂ Cr	1	1.0	3	3	Y. B.
36	KGg19	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y. B.
37	KGg20	Linkabau	S. Ogan	sandstone	P ₂ Cr	2	4.0	3	3	Y. B.
38	KGg21	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	1.5	3	3	Y. B.
39	KGg22	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	3.0	3	3	Y. B.
40	KGg23	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	4.0	3	3	Y. B.
41	KGg24	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y. B.
42	KGg25	Linkabau	S. Linkabau	sandstone	P ₂ Cr	3	15.0	3	3	G.
43	KGg26	Linkabau	S. Buan	sandstone	P ₂ Cr	3	10.0	3	3	B.
44	KGg27	Linkabau	S. Buan	—	P ₂ Cr	1	1.5	4	2	B.
45	KGg28	Linkabau	S. Buan	sandstone	P ₂ Cr	2	5.0	3	2	B.
46	KGg29	Linkabau	S. Buan	sandstone	P ₂ Cr	1	4.0	3	1	B.
47	KGg30	Linkabau	S. Buan	sandstone	P ₂ Cr	3	7.0	3	3	B. Y.
48	KGg31	Linkabau	S. Buan	—	P ₂ Cr	2	6.0	3	3	B. Y.
49	KGg32	Linkabau	S. Buan	sandstone	P ₂ Cr	1	3.0	4	1	B.
50	KGg33	Linkabau	S. Buan	sandstone	P ₂ Cr	1	3.0	3	1	B.
51	KGg34	Linkabau	S. Buan	sandstone	P ₂ Cr	1	4.0	3	1	B.
52	KGg35	Linkabau	S. Buan	sandstone	P ₂ Cr	2	4.0	3	1	B.
53	KGg36	Linkabau	S. Buan	sandstone	P ₂ Cr	1	4.0	3	1	B.
54	KGg37	Linkabau	S. Buan	sandstone	P ₂ Cr	1	3.0	3	3	B. Y.
55	KGg38	Linkabau	S. Buan	sandstone	P ₂ Cr	1	0.5	3	3	B. Y.
56	KGg39	Linkabau	S. Buan	sandstone	P ₂ Cr	1	3.0	3	3	B. Y.
57	KGg40	Linkabau	S. Buan	—	P ₂ Cr	1	4.0	3	3	B. Y.
58	KGg41	Linkabau	S. Buan	sandstone	P ₂ Cr	1	2.0	3	3	B. Y.
59	KGg42	Linkabau	S. Buan	—	P ₂ Cr	3	15.0	2	3	B. Y.
60	KGg43	Linkabau	S. Buan	sandstone	P ₂ Cr	1	2.0	2	3	B. Y.
61	KGg44	Linkabau	S. Buan	—	P ₂ Cr	2	8.0	3	3	B. Y.
62	KGg45	Linkabau	S. Buan	sandstone	P ₂ Cr	1	2.0	2	3	B. Y.
63	KGg46	Linkabau	S. Buan	—	P ₂ Cr	1	2.0	3	3	B. Y.
63	KGg47	Linkabau	S. Buan	sandstone	P ₂ Cr	1	4.0	3	3	B. Y.
65	KGg48	Linkabau	S. Buan	sandstone	P ₂ Cr	3	7.0	3	3	B. Y.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
66	KGh01	Linkabau	S. Sugut	sandstone	P ₂ Cr	2	3.0	3	3	Y.
67	KGh02	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	2	3.0	3	3	B.Y.
68	KGh03	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	0.5	1	4	Y.
69	KGh04	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	1.0	3	4	Y.
70	KGh05	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	1.0	3	4	Y.
71	KGh06	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	1.0	3	4	Y.
72	KGh07	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	2	3.0	3	3	Y.
73	KGh08	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	3.0	3	3	Y.
74	KGh09	Linkabau	S. Tungtomarom	sandstone	P ₂ Cr	1	1.0	4	3	Y.
75	KGh10	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	2	4	Y.
76	KGh11	Linkabau	S. Sugut	s.s./m.s.	P ₂ Cr	1	2.5	3	3	Y.
77	KGh12	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	B.Y.
78	KGh13	Linkabau	S. Sugut	sandstone	P ₂ Cr	2	6.0	4	2	Y.
79	KGh14	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	3	B.Y.
80	KGh15	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	3	B.Y.
81	KGh16	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	4	2	B.Y.
82	KGh17	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.0	4	2	Y.
83	KGh18	Linkabau	S. Sugut	sandstone	P ₂ Cr	2	3.0	4	2	B.Y.
84	KGh19	Linkabau	S. Ogan	sandstone	P ₂ Cr	3	10.0	3	4	Y.
85	KGh20	Linkabau	S. Sugut	—	P ₂ Cr	1	0.5	3	3	Y.B.
86	KGh21	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	2	3	Y.B.
87	KGh22	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	B.Gn.
88	KGh23	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	4	3	Gn.Y.
89	KGh24	Linkabau	S. Sugut	—	P ₂ Cr	3	4.0	3	3	Y.B.
90	KGh25	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	3	3	Y.B.
91	KGh26	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	3	3	Y.B.
92	KGh27	Linkabau	S. Sugut	—	P ₂ Cr	3	4.0	3	3	Y.B.
93	KGh28	Linkabau	S. Sugut	—	P ₂ Cr	1	3.0	3	3	Y.B.
94	KGh29	Linkabau	S. Sugut	—	P ₂ Cr	2	1.5	2	3	Y.B.
95	KGh30	Linkabau	S. Sugut	—	P ₂ Cr	1	0.5	3	3	Y.B.
96	KGh31	Linkabau	S. Sugut	—	P ₂ Cr	2	1.0	3	3	Y.B.
97	KGh32	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	3	3	Y.B.
98	KGh33	Linkabau	S. Sugut	—	P ₂ Cr	3	2.0	3	3	Y.B.
99	KGh34	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	3	3	Y.B.
100	KGh35	Linkabau	S. Sugut	—	P ₂ Cr	2	2.0	3	3	Y.B.
101	KGh36	Linkabau	S. Ogan	—	P ₂ Cr	1	3.0	2	3	Y.B.
102	KGh37	Linkabau	S. Ogan	—	P ₂ Cr	2	1.0	2	3	Y.B.
103	KGh38	Linkabau	S. Ogan	—	P ₂ Cr	2	2.0	3	3	Y.B.
104	KGh39	Linkabau	S. Ogan	—	P ₂ Cr	2	1.0	3	3	Y.B.
105	KGh40	Linkabau	S. Ogan	—	P ₂ Cr	3	5.0	3	3	Y.B.
106	KGh41	Linkabau	S. Ogan	—	P ₂ Cr	1	3.0	3	3	Y.B.
107	KGh42	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y.B.
108	KGh43	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	3.0	3	3	Y.B.
109	KGh44	Linkabau	S. Ogan	—	P ₂ Cr	1	2.0	3	3	Y.B.
110	KGh45	Linkabau	S. Ogan	sandstone	P ₂ Cr	2	4.0	3	3	Y.B.
111	KGh46	Linkabau	S. Ogan	—	P ₂ Cr	1	4.0	3	3	Y.B.
112	KGh47	Linkabau	S. Ogan	sandstone	P ₂ Cr	2	3.0	3	3	Y.B.
113	KGh48	Linkabau	S. Ogan	sandstone	P ₂ Cr	1	2.0	3	3	Y.B.
114	KGh49	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.5	3	2	B.Y.
115	KGh50	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.0	3	2	Y.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
116	KGj01	Linkabau	S. Sugut	---	P ₂ Cr	1	0.5	3	3	Y.B.
117	KGj02	Linkabau	S. Sugut	---	P ₂ Cr	2	2.5	3	3	Y.B.
118	KGj03	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	3	Y.B.
119	KGj04	Linkabau	S. Sugut	---	P ₂ Cr	2	2.0	3	3	Y.B.
120	KGj05	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	3	Y.B.
121	KGj06	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	3	Y.B.
122	KGj07	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	3	Y.B.
123	KGj08	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	3	Y.B.
124	KGj09	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	4	2	B.
125	KGj10	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	2	1	L.B.
126	KGj11	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	2	1	L.B.
127	KGj12	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	5.0	2	1	L.B.
128	KGj13	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	1	1	L.B.
129	KGj14	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	2	1	L.B.
130	KGj15	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	1	1	L.B.
131	KGj16	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	2	1	L.B.
132	KGj17	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	1	1	L.B.
133	KGj18	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.5	1	1	L.B.
134	KGj19	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	4.0	2	1	L.B.
135	KGj20	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	3.0	2	1	L.B.
136	KGj21	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	3.0	2	1	L.B.
137	KGj22	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	3.0	2	1	Y.B.
138	KGj23	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.0	2	1	Y.B.
139	KGj24	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	2	1	Y.
140	KGj25	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	3.0	2	1	Y.
141	KGj26	Linkabau	S. Sovium	sandstone	P ₂ Cr	3	10.0	2	1	Y.
142	KGj27	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.5	2	1	Y.
143	KGj28	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	2	1	Y.
144	KGj29	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	2	1	Y.
145	KGj30	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	3.0	2	1	Y.
146	KGj31	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	2.0	1	1	Y.
147	KGj32	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	3.0	2	1	L.B.
148	KGj33	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	1	1	L.B.
149	KGj34	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	5.0	2	1	L.B.
150	KGj35	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	3.0	2	1	L.B.
151	KGj36	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	2.0	2	1	L.B.
152	KGj37	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	3.0	2	1	L.B.
153	KGj38	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	1	1	L.B.
154	KGj39	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	2	1	L.B.
155	KGj40	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	3.0	2	1	L.B.
156	KGj41	Linkabau	S. Sovium	sandstone	P ₂ Cr	3	5.0	2	1	L.B.
157	KGj42	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	3.0	2	1	L.B.
158	KGj43	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	2.0	1	1	L.B.
159	KGj44	Linkabau	S. Sovium	sandstone	P ₂ Cr	1	1.5	2	1	L.B.
160	KGj45	Linkabau	S. Sovium	sandstone	P ₂ Cr	2	5.0	2	1	L.B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
161	KHg01	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	4.0	2	2	B.
162	KHg02	Linkabau	S. Karapui	—	P ₂ Cr	2	4.0	2	3	Y.B.
163	KHg03	Linkabau	S. Karapui	—	P ₂ Cr	2	4.0	2	3	Y.B.
164	KHg04	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.5	2	2	B.
165	KHg05	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.5	2	2	D.B.
166	KHg06	Linkabau	S. Linkabau	sandstone	P ₂ Cr	2	2.5	4	3	L.Y.
167	KHg07	Linkabau	S. Linkabau	—	P ₂ Cr	1	1.0	2	3	L.Y.
168	KHg08	Linkabau	S. Linkabau	—	P ₂ Cr	1	1.0	2	3	L.Y.
169	KHg09	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.0	4	3	L.Y.
170	KHg10	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.0	3	3	L.Y.
171	KHg11	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.5	4	3	L.Y.
172	KHg12	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	5.0	2	4	B.
173	KHg13	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	1.0	2	1	B.
174	KHg14	Linkabau	S. Linkabau	sandstone	P ₂ Cr	2	4.0	3	3	B.
175	KHg15	Linkabau	S. Linkabau	sandstone	P ₂ Cr	2	2.0	4	3	B.
176	KHg16	Linkabau	S. Linkabau	—	P ₂ Cr	1	1.5	3	3	B.
177	KHg17	Linkabau	S. Linkabau	—	P ₂ Cr	1	3.0	3	1	B.
178	KHg18	Linkabau	S. Linkabau	—	P ₂ Cr	1	4.0	2	3	L.Y.
179	KHg19	Linkabau	S. Linkabau	—	P ₂ Cr	2	6.0	2	3	L.Y.
180	KHg20	Linkabau	S. Linkabau	—	P ₂ Cr	2	4.0	4	3	L.Y.
181	KHg21	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.0	3	3	L.Y.
182	KHg22	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	2.0	4	3	L.Y.
183	KHg23	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	3.0	4	3	L.Y.
184	KHg24	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	5.0	4	3	L.Y.
185	KHg25	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	3.0	4	3	L.Y.
186	KHg26	Linkabau	S. Linkabau	—	P ₂ Cr	1	5.0	2	3	L.Y.
187	KHg27	Linkabau	S. Linkabau	—	P ₂ Cr	3	15.0	3	3	L.Y.
188	KHg28	Linkabau	S. Linkabau	—	P ₂ Cr	1	4.0	2	3	L.Y.
189	KHg29	Linkabau	S. Linkabau	—	P ₂ Cr	1	5.0	2	3	B.
190	KHg30	Linkabau	S. Linkabau	—	P ₂ Cr	1	4.0	2	3	L.Y.
191	KHg31	Linkabau	S. Linkabau	—	P ₂ Cr	2	7.0	2	3	B.
192	KHg32	Linkabau	S. Linkabau	—	P ₂ Cr	1	3.0	0	3	L.Y.
193	KHg33	Linkabau	S. Linkabau	—	P ₂ Cr	2	3.5	2	3	L.Y.
194	KHg34	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.0	2	3	L.Y.
195	KHg35	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.5	2	3	L.Y.
196	KHg36	Linkabau	S. Linkabau	—	P ₂ Cr	1	2.0	2	3	L.Y.
197	KHg37	Linkabau	S. Linkabau	—	P ₂ Cr	2	2.5	3	3	B.
198	KHg38	Linkabau	S. Linkabau	sandstone	P ₂ Cr	2	2.0	3	3	B.
199	KHg39	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	2.0	3	3	B.
200	KHg40	Linkabau	S. Linkabau	sandstone	P ₂ Cr	2	2.0	3	3	B.
201	KHg41	Linkabau	S. Linkabau	—	P ₂ Cr	1	1.0	3	3	L.Y.
202	KHg42	Linkabau	S. Linkabau	—	P ₂ Cr	1	5.0	3	3	L.Y.
203	KHg43	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	0.5	3	4	B.
204	KHg44	Linkabau	S. Linkabau	—	P ₂ Cr	2	5.0	3	3	L.Y.
205	KHg45	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	3.0	3	3	B.
206	KHg46	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	3.0	3	1	B.
207	KHg47	Linkabau	S. Linkabau	sandstone	P ₂ Cr	1	3.0	2	2	B.
208	KHg48	Linkabau	S. Sugut	—	P ₂ Cr	2	2.0	3	3	B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
209	KHh01	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.0	3	2	B.
210	KHh02	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	Y.
211	KHh03	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	4.0	2	2	B.
212	KHh04	Linkabau	S. Puntodong	sandstone	P ₂ Cr	3	5.0	3	4	G. Y.
213	KHh05	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	0.5	2	4	Y.
214	KHh06	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	2.0	2	4	Y.
215	KHh07	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	1.5	2	4	Y.
216	KHh08	Linkabau	S. Sugut	sandstone	P ₂ Cr	2	1.0	2	4	G. Y.
217	KHh09	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	2	4	Y.
218	KHh10	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.0	2	4	Y.
219	KHh11	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	0.5	3	3	Y.
220	KHh12	Linkabau	S. Sugut	—	P ₂ Cr	2	3.0	3	4	B.
221	KHh13	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	3.0	3	1	B.
222	KHh14	Linkabau	S. Sugut	—	P ₂ Cr	1	2.0	2	4	B.
223	KHh15	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	0.5	3	1	B.
224	KHh16	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.0	3	2	B.
225	KHh17	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	Y.
226	KHh18	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	4	Y.
227	KHh19	Linkabau	S. Sugut	sandstone	P ₂ Cr	2	3.0	3	2	B.
228	KHh20	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	2	B.
229	KHh21	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	2	B.
230	KHh22	Linkabau	S. Sugut	—	P ₂ Cr	1	1.5	3	3	B.
231	KHh23	Linkabau	S. Klinganan	—	P ₂ Cr	2	4.0	2	3	Y. B.
232	KHh24	Linkabau	S. Klinganan	—	P ₂ Cr	1	1.0	2	3	Y. B.
233	KHh25	Linkabau	S. Klinganan	—	P ₂ Cr	1	3.0	3	3	Y. B.
234	KHh26	Linkabau	S. Klinganan	sandstone	P ₂ Cr	1	2.0	2	3	Y. B.
235	KHh27	Linkabau	S. Klinganan	sandstone	P ₂ Cr	1	4.0	2	3	Y. B.
236	KHh28	Linkabau	S. Klinganan	—	P ₂ Cr	1	4.0	2	3	Y. B.
237	KHh29	Linkabau	S. Sugut	—	P ₂ Cr	2	5.0	3	3	Y. B.
238	KHh30	Linkabau	S. Sugut	—	P ₂ Cr	1	2.0	3	3	Y. B.
239	KHh31	Linkabau	S. Sugut	—	P ₂ Cr	1	3.0	3	3	Y. B.
240	KHh32	Linkabau	S. Sugut	—	P ₂ Cr	1	4.0	3	3	Y. B.
241	KHh33	Linkabau	S. Sugut	—	P ₂ Cr	1	2.0	3	2	Y.
242	KHh34	Linkabau	S. Yaigau	sandstone	P ₂ Cr	2	5.0	2	1	L. B.
243	KHh35	Linkabau	S. Yaigau	sandstone	P ₂ Cr	1	2.0	2	1	L. B.
244	KHh36	Linkabau	S. Yaigau	sandstone	P ₂ Cr	1	1.5	2	1	L. B.
245	KHh37	Linkabau	S. Yaigau	sandstone	P ₂ Cr	2	5.0	2	1	L. B.
246	KHh38	Linkabau	S. Yaigau	sandstone	P ₂ Cr	1	2.0	2	1	L. B.
247	KHh39	Linkabau	S. Yaigau	sandstone	P ₂ Cr	1	4.0	2	1	L. B.
248	KHh40	Linkabau	S. Yaigau	sandstone	P ₂ Cr	1	2.0	2	1	L. B.
249	KHh41	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	2	4	Y.
250	KHh42	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	2.5	3	3	Y.
251	KHh43	Linkabau	S. Sugut	sandstone	P ₂ Cr	1	1.0	3	3	Y.
252	KHh44	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	4	2	Y. B.
253	KHh45	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.0	4	2	Y. B.
254	KHh46	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	4.0	4	2	B.
255	KHh47	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	2.0	2	3	B. Y.
256	KHh48	Linkabau	S. Tungud	—	P ₃ Kd	1	4.0	2	3	B. Y.
257	KHh49	Linkabau	S. Tungud	—	P ₃ Kd	1	1.0	3	3	Y. B.
258	KHh50	Linkabau	S. Tungud	—	P ₃ Kd	1	2.0	3	3	Y. B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
259	KHj01	Linkabau	S. Tungud	sandstone	P ₂ Cr	3	7.0	3	2	Y.B.
260	KHj02	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	4	2	Y.B.
261	KHj03	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.0	3	3	Y.B.
262	KHj04	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	4	1	Y.B.
263	KHj05	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	3	3	Y.B.
264	KHj06	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	6.0	3	3	B.
265	KHj07	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	4.0	3	2	G.B.
266	KHj08	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.0	4	2	B.
267	KHj09	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	4	2	B.
268	KHj10	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.5	4	2	B.
269	KHj11	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	3	2	Y.B.
270	KHj12	Linkabau	S. Tungud	sandstone	P ₂ Cr	3	6.0	3	2	Y.B.
271	KHj13	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	4.5	3	2	B.
272	KHj14	Linkabau	S. Tungud	s. s./shale	P ₂ Cr	1	1.0	4	3	Y.R.
273	KHj15	Linkabau	S. Tungud	s. s./shale	P ₂ Cr	1	4.0	3	2	G.Y.
274	KHj16	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.0	2	3	Y.
275	KHj17	Linkabau	S. Tungud	sandstone	P ₂ Cr	1	1.5	4	3	Y.B.
276	KHj18	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	5.0	2	2	G.
277	KHj19	Linkabau	S. Tungud	sandstone	P ₂ Cr	2	5.0	3	2	Y.
278	KHj20	Linkabau	S. Tungud	—	P ₃ Kd	3	7.0	2	3	B.Y.
279	KHj21	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	3.0	2	3	B.Y.
280	KHj22	Linkabau	S. Tungud	—	P ₃ Kd	1	1.0	2	3	B.Y.
281	KHj23	Linkabau	S. Tungud	—	P ₃ Kd	3	7.0	2	3	B.Y.
282	KHj24	Linkabau	S. Tungud	sandstone	P ₃ Kd	2	4.0	2	3	B.Y.
283	KHj25	Linkabau	S. Tungud	sandstone	P ₃ Kd	2	4.0	2	3	
284	KHj26	Linkabau	S. Tungud	—	P ₂ Cr	1	2.0	2	1	B.
285	KHj27	Linkabau	S. Tungud	—	Cb	1	2.0	2	1	G.
286	KHj28	Linkabau	S. Tungud	—	P ₂ Cr	1	2.0	2	1	B.G.
287	KHj29	Linkabau	S. Tungud	—	P ₂ Cr	2	4.0	2	1	B.G.
288	KHj30	Linkabau	S. Tungud	—	Ub	1	1.5	1	1	B.G.
289	KHj31	Linkabau	S. Likog	—	P ₂ Cr	2	5.0	2	1	B.G.
290	KHj32	Linkabau	S. Sasau	—	P ₃ Kd	3	14.0	3	2	B.
291	KHj33	Linkabau	S. Sasau	—	Ub	1	2.0	4	3	B.
292	KHj34	Linkabau	S. Sasau	serpentinite	Ub	2	6.0	4	1	B.
293	KHj35	Linkabau	S. Sasau	—	Ub	2	6.0	4	1	B.
294	KHj36	Linkabau	S. Sasau	—	Ub	1	2.0	4	1	B.
295	KHj37	Linkabau	S. Sasau	serpentinite	Ub	2	5.0	4	1	B.
296	KHj38	Linkabau	S. Sasau	serpentinite	Ub	1	4.0	4	1	B.
297	KHj39	Linkabau	S. Sasau	serpentinite	Ub	2	7.0	4	1	B.
298	KHj40	Linkabau	S. Sasau	serpentinite	Ub	1	2.5	4	1	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
299	KJg01	Linkabau	S. Sugut	—	P ₂ Cr	1	5.0	2	4	B.Y.
300	KJg02	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	3	4	B.Y.
301	KJg03	Linkabau	S. Sugut	—	P ₂ Cr	2	4.0	3	2	B.
302	KJg04	Linkabau	S. Sugut	—	P ₂ Cr	1	1.5	4	3	Y.B.
303	KJg05	Linkabau	S. Sugut	—	P ₂ Cr	1	1.0	2	3	Y.B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
304	KJg01	Linkabau	S. Sugut	---	P ₂ Cr	1	1.5	4	2	Y.B.
305	KJg02	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	2	Y.B.
306	KJg08	Linkabau	S. Sugut	---	P ₂ Cr	1	3.0	2	2	B.
307	KJg09	Linkabau	S. Sugut	---	P ₂ Cr	1	2.0	2	2	B.
308	KJg10	Linkabau	S. Sugut	---	P ₂ Cr	2	1.5	2	4	Y.B.
309	KJg11	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	2	4	Y.B.
310	KJg12	Linkabau	S. Sugut	---	P ₂ Cr	1	1.5	2	4	B.
311	KJg13	Linkabau	S. Sugut	---	P ₂ Cr	2	2.5	1	4	Y.B.
312	KJg14	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	1	4	Y.B.
313	KJg15	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	2	4	Y.
314	KJg16	Linkabau	S. Sugut	---	P ₂ Cr	2	3.0	1	4	B.
315	KJg17	Linkabau	S. Sugut	---	P ₂ Cr	1	2.0	2	3	B.
316	KJg18	Linkabau	S. Sugut	---	P ₂ Cr	2	2.5	2	3	B.
317	KJg19	Linkabau	S. Sugut	---	P ₂ Cr	2	3.5	3	3	B.
318	KJg20	Linkabau	S. Sugut	---	P ₂ Cr	1	1.5	2	3	B.
319	KJg21	Linkabau	S. Sugut	---	P ₂ Cr	1	1.5	3	2	B.
320	KJg22	Linkabau	S. Sugut	---	P ₂ Cr	1	1.0	3	2	B.
321	KJg23	Linkabau	S. Sugut	---	P ₂ Cr	2	1.5	3	2	B.
322	KJg24	Linkabau	S. Sugut	---	P ₂ Cr	1	3.0	3	3	B.
323	KJg25	Linkabau	S. Sugut	---	P ₂ Cr	1	1.4	2	3	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
324	KJh01	Linkabau	S. Karapui	---	P ₂ Cr	1	0.5	3	3	Y.B.
325	KJh02	Linkabau	S. Karapui	---	P ₂ Cr	1	2.0	3	3	Y.B.
326	KJh03	Linkabau	S. Karapui	---	P ₂ Cr	2	4.0	2	3	Y.B.
327	KJh04	Linkabau	S. Karapui	---	P ₂ Cr	1	4.0	2	3	Y.B.
328	KJh05	Linkabau	S. Tungud	s.s./m.s.	P ₃ Kd	1	1.5	3	3	B.Y.
329	KJh06	Linkabau	S. Tungud	s.s./m.s.	P ₂ Cr	1	4.0	3	3	Y.B.
330	KJh07	Linkabau	S. Tungud	s.s./m.s.	P ₂ Cr	1	4.0	2	3	Y.B.
331	KJh08	Linkabau	S. Puntodong	sandstone	P ₂ Cr	2	3.5	3	4	Y.
332	KJh09	Linkabau	S. Puntodong	sandstone	P ₂ Cr	2	2.5	3	4	Y.
333	KJh10	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	1.5	3	4	Y.
334	KJh11	Linkabau	S. Puntodong	sandstone	P ₂ Cr	2	2.0	3	3	Y.
335	KJh12	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	0.5	3	3	Y.
336	KJh13	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	1.0	3	3	Y.
337	KJh14	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	0.5	3	4	Y.
338	KJh15	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	0.5	3	4	B.Y.
339	KJh16	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	1.0	3	3	Y.
340	KJh17	Linkabau	S. Puntodong	sandstone	P ₂ Cr	1	0.5	3	4	B.Y.
341	KJh18	Linkabau	S. Puntodong	---	P ₃ Kd	1	2.0	3	3	B.Y.
342	KJh19	Linkabau	S. Tungud	---	P ₃ Kd	1	4.0	3	3	B.Y.
343	KJh20	Linkabau	S. Tungud	---	P ₃ Kd	1	3.0	3	3	B.Y.
344	KJh21	Linkabau	S. Tungud	sandstone	P ₃ Kd	2	5.0	3	4	Y.
345	KJh22	Linkabau	S. Tungud	sandstone	P ₃ Kd	2	3.0	3	4	Y.
346	KJh23	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	1.0	2	4	Y.
347	KJh24	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	2.0	3	4	Y.
348	KJh25	Linkabau	S. Tungud	mudstone	P ₃ Kd	1	1.0	3	4	B.Y.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
349	KJj01	Linkabau	S. Tungud	---	P ₃ Kd	2	6.0	3	2	B.
350	KJj02	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	0.5	3	4	Y.B.
351	KJj03	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	1.0	3	4	Y.B.
352	KJj04	Linkabau	S. Sap-Sap	---	P ₂ Cr	2	6.0	2	3	B.
353	KJj05	Linkabau	S. Sap-Sap	---	P ₂ Cr	1	4.0	3	1	B.
354	KJj06	Linkabau	S. Sap-Sap	---	P ₂ Cr	1	6.0	3	1	B.
355	KJj07	Linkabau	S. Sap-Sap	peridotite	Ub	1	4.0	2	2	B.
356	KJj08	Linkabau	S. Tungud	---	P ₂ Cr	1	2.5	1	4	B.
357	KJj09	Linkabau	S. Tungud	---	P ₃ Kd	1	2.0	2	3	B.Y.
358	KJj10	Linkabau	S. Moinpau	---	P ₃ Kd	2	2.5	3	3	B.
359	KJj11	Linkabau	S. Moinpau	---	Ub	1	3.0	3	1	B.
360	KJj12	Linkabau	S. Moinpau	---	Ub	1	1.5	3	2	B.
361	KJj13	Linkabau	S. Tungud	---	P ₃ Kd	2	4.5	3	3	B.Y.
362	KJj14	Linkabau	S. Tungud	---	P ₃ Kd	1	1.0	2	3	B.R.
363	KJj15	Linkabau	S. Tungud	---	P ₃ Kd	2	4.0	3	3	B.Y.
364	KJj16	Linkabau	S. Tungud	mudstone	P ₂ Cr	1	1.5	3	2	B.
365	KJj17	Linkabau	S. Tungud	---	P ₂ Cr	1	1.5	3	2	B.
366	KJj18	Linkabau	S. Tungud	sandstone	P ₃ Kd	1	1.5	3	3	Y.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
367	LFj01	Kiabau	S. Tabuk	sandstone	P ₂ Cr	2	6.0	4	2	Y.B.
368	LFj02	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	3.0	4	2	Y.B.
369	LFj03	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	2.0	4	2	B.
370	LFj04	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.5	4	2	Y.B.
371	LFj05	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	3.0	4	2	B.
372	LFj06	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	4.0	4	2	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
373	LFk01	Kiabau	S. Tabuk	---	P ₂ Cr	1	1.5	4	2	G.
374	LFk02	Kiabau	S. Tabuk	---	P ₂ Cr	3	7.0	4	2	Y.B.
375	LFk03	Kiabau	S. Tabuk	---	P ₂ Cr	1	2.0	4	2	G.
376	LFk04	Kiabau	S. Tabuk	---	P ₂ Cr	1	3.0	4	2	Y.B.
377	LFk05	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	3.0	4	2	Y.B.
378	LFk06	Kiabau	S. Tabuk	---	P ₂ Cr	1	1.5	4	2	Y.B.
379	LFk07	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	2.0	4	2	Y.B.
380	LFk08	Kiabau	S. Tabuk	---	P ₂ Cr	1	4.0	4	2	Y.B.
381	LFk09	Kiabau	S. Tabuk	---	P ₂ Cr	1	3.0	4	2	Y.B.
382	LFk10	Kiabau	S. Tabuk	sandstone	P ₂ Cr	2	6.0	4	2	Y.B.
383	LFk11	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.0	4	2	Y.B.
384	LFk12	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.0	4	2	Y.B.
385	LFk13	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	2.0	4	2	Y.B.
386	LFk14	Kiabau	S. Tungud	sandstone	P ₂ Cr	1	2.5	4	1	B.
387	LFk15	Kiabau	S. Tungud	---	P ₂ Cr	3	15.0	4	2	Y.B.
388	LFk16	Kiabau	S. Peragampary	sandstone	P ₂ Cr	3	10.0	1	1	B.G.
389	LFk17	Kiabau	S. Tungud	sandstone	P ₂ Cr	1	2.0	2	3	Y.B.
390	LFk18	Kiabau	S. Tungud	---	Ub	1	4.0	3	1	B.
391	LFk19	Kiabau	S. Tungud	---	Ub	2	13.0	4	2	Y.B.
392	LFk20	Kiabau	S. Tinum Bukan	---	Ub	1	2.0	4	1	B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Labuk Area

Grid: LFm

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Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
393	LFm01	Kiabau	S. Peragampang	---	KPCs	1	1.5	2	1	B.
394	LFm02	Kiabau	S. Peragampang	---	KPCs	2	8.0	2	1	B.
395	LFm03	Kiabau	S. Peragingin	---	Ub	1	2.0	2	1	B.G.
396	LFm04	Kiabau	S. Peragingin	---	Ub	1	1.5	1	1	B.G.
397	LFm05	Kiabau	S. Peragingin	---	Ub	1	2.0	2	1	B.G.
398	LFm06	Kiabau	S. Peragampang	---	KPCs	1	2.0	1	1	B.G.
399	LFm07	Kiabau	S. Peragampang	---	KPCs	1	3.0	2	1	B.G.
400	LFm08	Kiabau	S. Peragampang	---	KPCs	2	3.0	2	1	B.G.
401	LFm09	Kiabau	S. Peragampang	---	KPCs	1	2.0	1	1	B.G.
402	LFm10	Kiabau	S. Mailo	---	Ub	1	3.0	2	3	B.R.
403	LFm11	Kiabau	S. Mailo	---	Ub	2	6.0	2	3	B.R.
404	LFm12	Kiabau	S. Mailo	---	Ub	1	4.0	2	3	B.R.
405	LFm13	Kiabau	S. Mailo	---	Ub	2	7.0	2	3	B.R.
406	LFm14	Kiabau	S. Mailo	---	Ub	1	3.0	2	3	B.Y.
407	LFm15	Kiabau	S. Mailo	---	Ub	1	3.0	2	3	B.R.
408	LFm16	Kiabau	S. Mailo	---	Ub	2	8.0	2	3	B.R.

Area: Labuk Area

Grid: LFn

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
409	LFn01	Kiabau	S. Mailo	---	Ub	2	6.0	2	3	B.R.
410	LFn02	Kiabau	S. Mailo	---	Ub	1	4.0	2	3	B.R.
411	LFn03	Kiabau	S. Mailo	---	Ub	2	8.0	2	3	B.R.
412	LFn04	Kiabau	S. Mailo	---	Ub	2	4.0	2	3	B.Y.
413	LFn05	Kiabau	S. Mailo	---	Ub	1	1.0	2	3	B.Y.
414	LFn06	Kiabau	S. Mailo	dolerite	KPCs	1	4.0	2	3	B.Y.
415	LFn07	Kiabau	S. Mailo	dolerite	KPCs	1	2.0	2	3	B.Y.
416	LFn08	Kiabau	S. Mailo	---	Ub	2	4.0	3	3	B.Y.
417	LFn09	Kiabau	S. Mailo	---	KPCs	1	2.0	3	3	B.Y.
418	LFn10	Kiabau	S. Mailo	---	KPCs	1	1.0	3	3	B.Y.
419	LFn11	Kiabau	S. Mailo	---	KPCs	1	4.0	2	3	B.Y.
420	LFn12	Kiabau	S. Mailo	---	KPCs	1	5.0	2	3	B.Y.
421	LFn13	Kiabau	S. Mailo	---	KPCs	3	10.0	2	3	B.Y.
422	LFn14	Kiabau	S. Labuk	---	KPCs	1	3.0	2	3	B.Y.
423	LFn15	Kiabau	S. Labuk	---	KPCs	1	2.0	2	3	B.Y.

Area: Labuk Area

Grid: LGj

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
424	LGj01	Kiabau	S. Soviun	sandstone	P ₂ Cr	1	1.5	1	1	Y.B.
425	LGj02	Kiabau	S. Soviun	sandstone	P ₂ Cr	1	1.5	1	1	Y.B.
426	LGj03	Kiabau	S. Soviun	sandstone	P ₂ Cr	1	2.0	2	1	Y.B.
427	LGj04	Kiabau	S. Soviun	sandstone	P ₂ Cr	1	1.5	1	1	Y.B.
428	LGj05	Kiabau	S. Soviun	sandstone	Q ₁	4	10.0	2	1	Y.B.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
429	LGk01	Kiabau	S. Tungud	---	Q ₁	2	4.0	4	2	B.
430	LGk02	Kiabau	S. Tungud	---	P ₂ Cr	1	2.5	4	2	B.
431	LGk03	Kiabau	S. Tungud	---	P ₂ Cr	1	3.5	4	2	B.
432	LGk04	Kiabau	S. Tungud	---	P ₂ Cr	1	3.5	4	2	B.
433	LGk05	Kiabau	S. Tongod T.	---	Q ₁	2	7.0	4	1	D.B.
434	LGk06	Kiabau	S. Tongod T.	---	KPCs	2	6.0	4	1	D.B.
435	LGk07	Kiabau	S. Tongod T.	---	KPCs	1	2.5	3	1	B.
436	LGk08	Kiabau	S. Tongod T.	---	Q ₁	2	3.5	4	2	D.B.
437	LGk09	Kiabau	S. Tongod T.	---	Q ₁	2	2.5	4	1	D.B.
438	LGk10	Kiabau	S. Tongod T.	---	P ₂ Cr	1	2.0	4	1	B.G.
439	LGk11	Kiabau	S. Tongod T.	---	P ₂ Cr	1	0.8	4	3	R.B.
440	LGk12	Kiabau	S. Kimangis	---	Q ₁	2	5.0	2	1	B.G.
441	LGk13	Kiabau	S. Kimangis	---	KPCs	2	5.0	2	1	B.G.
442	LGk14	Kiabau	S. Tungud	---	Ub	4	15.0	2	1	B.G.
443	LGk15	Kiabau	S. Warun	---	Ub	3	7.0	4	1	B.
444	LGk16	Kiabau	S. Warun	---	KPCs	3	7.0	4	2	D.B.
445	LGk17	Kiabau	S. Kadai	---	KPCs	1	4.0	3	2	D.B.
446	LGk18	Kiabau	S. Warun	ultrabasic	Ub	2	6.0	4	1	D.B.
447	LGk19	Kiabau	S. Warun	ultramafic	Ub	1	2.0	4	2	D.B.
448	LGk20	Kiabau	S. Warun	ultramafic	Ub	1	4.0	4	1	D.B.
449	LGk21	Kiabau	S. Warun	---	KPCs	1	4.0	4	1	D.B.
450	LGk22	Kiabau	S. Warun	---	KPCs	3	7.0	4	1	D.B.
451	LGk23	Kiabau	S. Pinapakang	---	KPCs	2	6.0	4	1	D.B.
452	LGk24	Kiabau	S. Pinapakang	---	KPCs	1	6.0	4	1	D.B.
453	LGk25	Kiabau	S. Warun	---	KPCs	1	6.0	4	1	D.B.
454	LGk26	Kiabau	S. Warun	---	KPCs	1	2.0	4	1	D.B.
455	LGk27	Kiabau	S. Tongod	---	Ub	1	2.0	2	1	Y.
456	LGk28	Kiabau	S. Tongod	---	Ub	1	2.0	2	1	Y.
457	LGk29	Kiabau	S. Takang	---	Ub	1	3.0	2	1	G.
458	LGk30	Kiabau	S. Tungud	---	Ub	3	15.0	2	1	Y.
459	LGk31	Kiabau	S. Tabuk	---	Ub	3	10.0	2	1	B.G.
460	LGk32	Kiabau	S. Tabuk	---	Ub	3	10.0	2	1	B.G.
461	LGk33	Kiabau	S. Tabuk	---	P ₂ Cr	3	7.0	4	2	Y.B.
462	LGk34	Kiabau	S. Tabuk	---	P ₂ Cr	1	2.0	4	2	B.
463	LGk35	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	2.5	4	2	Y.B.
464	LGk36	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.5	4	2	B.
465	LGk37	Kiabau	S. Tabuk	sandstone	P ₂ Cr	2	6.0	4	2	B.
466	LGk38	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.0	4	3	Y.
467	LGk39	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.0	4	2	G.B.
468	LGk40	Kiabau	S. Tabuk	sandstone	P ₂ Cr	2	5.0	4	2	G.
469	LGk41	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.5	4	2	B.G.
470	LGk42	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	1.5	4	2	B.
471	LGk43	Kiabau	S. Tabuk	sandstone	P ₂ Cr	1	2.5	4	1	G.B.
472	LGk44	Kiabau	S. Unsudan	---	Ub	2	3.0	2	1	Y.B.
473	LGk45	Kiabau	S. Unsudan	basalt	KPCs	1	2.0	1	1	B.G.
474	LGk46	Kiabau	S. Unsudan	basalt	KPCs	1	2.0	2	1	B.G.
475	LGk47	Kiabau	S. Kiapak	basalt	KPCs	1	5.0	4	2	B.
476	LGk48	Kiabau	S. Kiapak	basalt	KPCs	1	5.0	4	2	Y.B.
477	LGk49	Kiabau	S. Tungud	---	KPCs	3	13.0	4	2	Y.B.
478	LGk50	Kiabau	S. Tungud	---	KPCs	1	3.0	4	4	B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
479	LGm01	Kiabau	S. Kiadak	basalt	KPCs	1	4.0	4	1	B.
480	LGm02	Kiabau	S. Pinapakang	gabbro	Ub	1	5.0	4	1	D.B.
481	LGm03	Kiabau	S. Warun	serpentinite	Ub	1	5.0	4	1	B.
482	LGm04	Kiabau	S. Meliou	peridotite	Ub	1	1.5	4	1	D.B.
483	LGm05	Kiabau	S. Meliou	peridotite	Ub	2	5.0	3	2	R.B.
484	LGm06	Kiabau	S. Meliou	peridotite	Ub	2	4.0	4	2	R.B.
485	LGm07	Kiabau	S. Meliou	peridotite	Ub	1	1.0	4	1	R.B.
486	LGm08	Kiabau	S. Meliou	peridotite	Ub	1	1.0	4	1	R.B.
487	LGm09	Kiabau	S. Ensuan	—	KPCs	2	4.0	3	2	D.B.
488	LGm10	Kiabau	S. Ensuan	—	KPCs	1	2.5	3	1	D.B.
489	LGm11	Kiabau	S. Ensuan	—	KPCs	4	17.0	3	2	D.B.
490	LGm12	Kiabau	S. Tagarak	—	KPCs	1	1.8	4	2	R.B.
491	LGm13	Kiabau	S. Tagarak	—	KPCs	1	2.0	4	2	R.B.
492	LGm14	Kiabau	S. Kibarah	—	KPCs	3	2.5	3	2	R.B.
493	LGm15	Kiabau	S. Kibarah	—	KPCs	1	2.5	3	1	D.B.
494	LGm16	Kiabau	S. Kibarah	pillow bre.	KPCs	2	8.0	3	2	D.B.
495	LGm17	Kiabau	S. Ensuan	—	KPCs	3	15.0	3	2	D.B.
496	LGm18	Kiabau	S. Ensuan	—	KPCs	2	3.5	3	2	D.B.
497	LGm19	Kiabau	S. Ensuan	pillow lavas	KPCs	1	0.8	3	2	D.B.
498	LGm20	Kiabau	S. Ensuan	pillow lavas	KPCs	2	2.5	3	2	D.B.
499	LGm21	Kiabau	S. Ensuan	pillow lavas	KPCs	1	2.0	4	1	D.B.
500	LGm22	Kiabau	S. Ensuan	basalt dikes	KPCs	2	2.5	4	1	D.B.
501	LGm23	Kiabau	S. Ensuan	—	KPCs	1	1.5	3	2	D.B.
502	LGm24	Kiabau	S. Ensuan	—	KPCs	3	6.5	3	2	D.B.
503	LGm25	Kiabau	S. Piso	—	KPCs	2	3.5	4	1	D.B.
504	LGm26	Kiabau	S. Piso	—	KPCs	1	0.7	4	1	D.B.
505	LGm27	Kiabau	S. Piso	—	KPCs	1	1.2	4	1	B.
506	LGm28	Kiabau	S. Piso	—	KPCs	2	2.8	3	1	B.
507	LGm29	Kiabau	S. Piso	gabbro	Ub	1	2.5	4	1	D.B.
508	LGm30	Kiabau	S. Piso	gabbro	Ub	2	3.2	4	1	D.B.
509	LGm31	Kiabau	S. Piso	—	Ub	1	1.0	4	1	D.B.
510	LGm32	Kiabau	S. Piso	—	Ub	2	2.5	4	2	D.B.
511	LGm33	Kiabau	S. Ensuan	—	KPCs	1	1.0	3	2	D.B.
512	LGm34	Kiabau	S. Ensuan	—	KPCs	2	3.0	3	2	D.B.
513	LGm35	Kiabau	S. Ensuan	—	KPCs	1	1.0	4	2	D.B.
514	LGm36	Kiabau	S. Ensuan	—	KPCs	1	1.2	4	2	D.B.
515	LGm37	Kiabau	S. Ensuan	—	KPCs	1	1.3	4	1	D.B.
516	LGm38	Kiabau	S. Ensuan	basalt	KPCs	1	1.3	4	1	D.B.
517	LGm39	Kiabau	S. Ensuan	pillow lavas	KPCs	1	1.5	4	2	D.B.
518	LGm40	Kiabau	S. Ensuan	—	KPCs	1	2.5	4	2	D.B.
519	LGm41	Kiabau	S. Ensuan	—	KPCs	1	3.0	4	2	D.B.
520	LGm42	Kiabau	S. Ensuan	—	KPCs	2	4.5	3	2	D.B.
521	LGm43	Kiabau	S. Ensuan	—	KPCs	2	2.5	4	2	D.B.
522	LGm44	Kiabau	S. Ensuan	—	KPCs	1	0.5	4	2	D.B.
523	LGm45	Kiabau	S. Ensuan	—	KPCs	1	1.0	4	2	D.B.
524	LGm46	Kiabau	S. Ensuan	pillow lavas	KPCs	1	1.5	4	2	D.B.
525	LGm47	Kiabau	S. Ensuan	—	KPCs	1	2.5	4	1	D.B.
526	LGm48	Kiabau	S. Ensuan	—	KPCs	2	3.5	4	1	D.B.
527	LGm49	Kiabau	S. Melapi	—	Ub	1	2.0	3	3	B.R.
528	LGm50	Kiabau	S. Melapi	—	Ub	1	3.0	3	3	R.Y.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
529	LGn01	Kiabau	S. Mailo	—	KPCs	3	8.0	2	3	B.R.
530	LGn02	Kiabau	S. Melapi	—	KPCs	2	4.0	2	3	B.Y.
531	LGn03	Kiabau	S. Melapi	—	Ub	1	2.0	3	3	B.Y.
532	LGn04	Kiabau	S. Melapi	—	Ub	1	2.0	3	3	B.Y.
533	LGn05	Kiabau	S. Melapi	—	Ub	2	6.0	3	3	B.Y.
534	LGn06	Kiabau	—	—	KPCs	1	2.0	2	3	B.Y.
535	LGn07	Kiabau	—	—	KPCs	1	3.0	2	3	B.Y.
536	LGn08	Kiabau	—	—	KPCs	2	2.5	2	3	B.Y.
537	LGn09	Kiabau	S. Kibarah	—	Ub	1	2.0	3	3	B.Y.
538	LGn10	Kiabau	S. Kibarah	—	Ub	2	4.0	3	3	B.Y.
539	LGn11	Kiabau	S. Kibarah	—	Ub	1	2.0	3	3	B.Y.
540	LGn12	Kiabau	S. Kibarah	pillow bre.	KPCs	1	2.0	4	1	D.B.
541	LGn13	Kiabau	S. Kibarah	pillow bre.	KPCs	1	0.8	3	2	D.B.
542	LGn14	Kiabau	S. Baba	—	KPCs	1	1.0	2	3	B.R.
543	LGn15	Kiabau	S. Baba	—	KPCs	1	3.0	2	3	B.R.
544	LGn16	Kiabau	S. Baba	—	KPCs	1	1.0	2	3	B.Y.
545	LGn17	Kiabau	S. Baba	basalt	KPCs	2	3.0	2	3	B.R.
546	LGn18	Kiabau	S. Baba	—	KPCs	1	1.0	2	3	B.Y.
547	LGn19	Kiabau	S. Baba	basalt	KPCs	2	3.0	2	3	B.R.
548	LGn20	Kiabau	S. Ensuan	basalt	KPCs	1	2.5	3	4	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
549	LHj01	Kiabau	S. Tungud	—	P ₂ Cr	1	1.5	2	1	B.G.
550	LHj02	Kiabau	S. Singilog	—	P ₂ Cr	2	5.0	2	1	Y.G.
551	LHj03	Kiabau	S. Singilog	—	KPCs	2	5.0	2	1	Y.G.
552	LHj04	Kiabau	S. Likog	—	P ₂ Cr	1	2.0	1	1	B.G.
553	LHj05	Kiabau	S. Likog	Serpentinite	Ub	2	2.0	2	1	B.G.
554	LHj06	Kiabau	S. Sasau	Serpentinite	Ub	1	2.0	4	1	B.
555	LHj07	Kiabau	S. Sasau	—	Ub	1	4.0	4	1	B.
556	LHj08	Kiabau	S. Sasau	Serpentinite	Ub	1	3.0	4	1	B.
557	LHj09	Kiabau	S. Sasau	—	Ub	1	4.0	4	1	B.
558	LHj10	Kiabau	S. Sasau	—	Ub	1	4.0	4	2	B.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
559	LHK01	Kiabau	S. Tongod	—	KPCs	1	2.0	3	2	Y.B.
560	LHK02	Kiabau	S. Tongod	serpentinite	Ub	1	5.0	4	1	D.B.
561	LHK03	Kiabau	S. Tongod	serpentinite	Ub	2	3.0	4	1	D.B.
562	LHK04	Kiabau	S. Tongod	—	Ub	1	4.0	4	1	D.B.
563	LHK05	Kiabau	S. Tongod	—	Ub	1	4.0	4	1	D.B.
564	LHK06	Kiabau	S. Tongod	serpentinite	Ub	1	3.0	4	1	D.B.
565	LHK07	Kiabau	S. Tongod	—	Ub	2	6.0	4	1	D.B.
566	LHK08	Kiabau	S. Tongod	serpentinite	Ub	1	2.5	4	1	D.B.
567	LHK09	Kiabau	S. Tongod	serpentinite	Ub	1	2.0	4	1	D.B.
568	LHK10	Kiabau	S. Kinangis?	serpentinite	Ub	1	3.0	2	1	B.G.
569	LHK11	Kiabau	S. Kinangis?	serpentinite	Ub	1	1.5	2	1	B.G.
570	LHK12	Kiabau	S. Kinangis?	serpentinite	Ub	1	2.0	1	1	B.G.
571	LHK13	Kiabau	S. Padau Lawan	—	Ub	3	13.0	4	1	B.
572	LHK14	Kiabau	S. Padau Lawan	—	Ub	1	4.0	4	1	B.
573	LHK15	Kiabau	S. Padau Lawan	—	Ub	1	5.0	4	1	B.
574	LHK16	Kiabau	S. Padau Lawan	—	Ub	3	15.0	4	2	B.
575	LHK17	Kiabau	S. Padau Lawan	serpentinite	Ub	2	5.0	4	2	B.
576	LHK18	Kiabau	S. Padau Lawan	—	Ub	1	1.0	4	2	B.
577	LHK19	Kiabau	S. Padau Lawan	serpentinite	Ub	1	2.0	4	1	B.
578	LHK20	Kiabau	S. Padau Lawan	—	Ub	1	5.0	4	2	B.
579	LHK21	Kiabau	S. Padau Lawan	—	Ub	1	3.0	4	2	B.
580	LHK22	Kiabau	S. Padau Lawan	—	Ub	2	6.0	4	1	B.
581	LHK23	Kiabau	S. Padau Lawan	serpentinite	Ub	1	1.0	4	4	B.
582	LHK24	Kiabau	S. Padau Lawan	serpentinite	Ub	1	3.0	4	1	B.
583	LHK25	Kiabau	S. Padau Lawan	serpentinite	Ub	1	1.0	4	1	B.
584	LHK26	Kiabau	S. Padau Lawan	—	Ub	1	3.0	4	2	B.
585	LHK27	Kiabau	S. Padau Lawan	—	Ub	2	6.0	4	1	B.
586	LHK28	Kiabau	S. Padau Lawan	—	Ub	1	4.0	4	1	B.
587	LHK29	Kiabau	S. Padau Lawan	—	Ub	1	3.0	4	1	B.
588	LHK30	Kiabau	S. Padau Lawan	—	Ub	1	3.0	4	1	B.
589	LHK31	Kiabau	S. Matapatan	—	Ub	1	3.0	3	3	B.
590	LHK32	Kiabau	S. Matapatan	—	Ub	1	5.0	3	3	B.
591	LHK33	Kiabau	S. Meliau	serpentinite	Ub	1	2.5	3	1	R.B.
592	LHK34	Kiabau	S. Meliau	peridotite	Ub	1	2.0	3	1	R.B.
593	LHK35	Kiabau	S. Meliau	peridotite	Ub	2	15.0	4	1	R.B.
594	LHK36	Kiabau	S. Meliau	peridotite	Ub	1	4.0	3	1	Y.B.
595	LHK37	Kiabau	S. Meliau	peridotite	Ub	1	3.0	3	1	R.B.
596	LHK38	Kiabau	S. Meliau	peridotite	Ub	1	2.5	4	1	R.B.
597	LHK39	Kiabau	S. Meliau	peridotite	Ub	1	1.0	4	1	R.B.
598	LHK40	Kiabau	S. Meliau	peridotite	Ub	1	1.5	4	1	R.B.
599	LHK41	Kiabau	S. Meliau	peridotite	Ub	1	2.5	3	1	R.B.
600	LHK42	Kiabau	S. Padau Madau	—	Ub	2	10.0	4	3	B.
601	LHK43	Kiabau	S. Padau Madau	—	Ub	1	3.0	3	3	B.
602	LHK44	Kiabau	S. Padau Madau	gabbro	Ub	1	3.0	4	2	B.
603	LHK45	Kiabau	S. Padau Madau	gabbro	Ub	1	2.0	4	2	B.
604	LHK46	Kiabau	S. Padau Madau	gabbro	Ub	2	5.0	4	3	B.
605	LHK47	Kiabau	S. Padau Madau	gabbro	Ub	1	2.0	4	3	D.B.
606	LHK48	Kiabau	S. Padau Madau	gabbro	Ub	1	2.0	4	3	B.
607	LHK49	Kiabau	S. Padau Madau	gabbro	Ub	2	3.0	4	2	B.
608	LHK50	Kiabau	S. Padau Madau	—	Ub	1	1.5	4	3	B.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
609	LHk51	Kiabau	S. Matapatan	—	Ub	1	1.5	3	4	R.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
610	LHm01	Kiabau	S. Labuk	—	P ₂ Ks	1	4.0	4	1	D.G.
611	LHm02	Kiabau	S. Labuk	—	P ₂ Ks	2	9.0	4	3	B.
612	LHm03	Kiabau	S. Labuk	—	KPCs	1	2.0	4	2	D.B.
613	LHm04	Kiabau	S. Labuk	—	KPCs	1	5.0	4	1	D.B.
614	LHm05	Kiabau	S. Melian	—	P ₂ Ks	1	4.0	4	1	D.G.
615	LHm06	Kiabau	S. Kapoi	—	KPCs	2	2.5	3	2	D.B.
616	LHm07	Kiabau	S. Kapoi	sheeted dike	KPCs	1	1.0	4	2	D.B.
617	LHm08	Kiabau	S. Kapoi	sheeted dike	KPCs	1	3.0	4	2	D.B.
618	LHm09	Kiabau	S. Meliou	dunite	Ub	1	3.0	4	2	R.B.
619	LHm10	Kiabau	S. Meliou	dunite	Ub	1	2.0	4	1	R.B.
620	LHm11	Kiabau	S. Meliou	dunite	Ub	1	1.5	4	2	R.B.
621	LHm12	Kiabau	S. Meliou	dunite	Ub	2	3.0	3	1	R.B.
622	LHm13	Kiabau	S. Meliou	dunite	Ub	1	2.0	4	1	R.B.
623	LHm14	Kiabau	S. Meliou	dunite	Ub	1	1.5	4	1	R.B.
624	LHm15	Kiabau	S. Meliou	dunite	Ub	1	2.0	3	1	R.B.
625	LHm16	Kiabau	S. Sumang	dunite	Ub	1	4.0	4	1	R.B.
626	LHm17	Kiabau	S. Sumang	dunite	Ub	1	3.0	4	1	R.B.
627	LHm18	Kiabau	S. Sumang	dunite	Ub	1	4.0	3	1	R.B.
628	LHm19	Kiabau	S. Meliou	dunite	Ub	1	3.0	3	1	R.B.
629	LHm20	Kiabau	S. Meliou	dunite	Ub	3	16.0	3	3	R.B.
630	LHm21	Kiabau	S. Meliou	dunite	Ub	1	2.0	3	2	R.B.
631	LHm22	Kiabau	S. Meliou	dunite	Ub	1	2.0	3	1	R.B.
632	LHm23	Kiabau	S. Meliou	peridotite	Ub	1	2.0	4	1	R.B.
633	LHm24	Kiabau	S. Meliou	serpentinite	Ub	1	2.5	4	1	R.B.
634	LHm25	Kiabau	S. Meliou	serpentinite	Ub	1	3.0	4	2	R.B.
635	LHm26	Kiabau	S. Meliou	peridotite	Ub	2	10.0	3	2	R.B.
636	LHm27	Kiabau	S. Meliou	dunite	Ub	1	1.5	4	1	R.B.
637	LHm28	Kiabau	S. Meliou	peridotite	Ub	2	20.0	3	1	R.B.
638	LHm29	Kiabau	S. Meliou	peridotite	Ub	1	2.5	3	2	R.B.
639	LHm30	Kiabau	S. Ensuan	—	Ub	1	0.8	4	2	D.B.
640	LHm31	Kiabau	S. Ensuan	—	Ub	1	1.2	4	2	R.B.
641	LHm32	Kiabau	S. Ensuan	gabbro	Ub	1	2.5	4	1	D.B.
642	LHm33	Kiabau	S. Ensuan	gabbro	Ub	1	2.0	4	1	D.B.
643	LHm34	Kiabau	S. Taaza	—	Ub	1	1.5	4	2	R.B.
644	LHm35	Kiabau	S. Tagouk	—	Ub	1	4.0	3	2	R.B.
645	LHm36	Kiabau	S. Tagouk	—	Ub	1	6.0	3	2	R.B.
646	LHm37	Kiabau	S. Tagouk	dunite	Ub	1	4.0	3	2	R.B.
647	LHm38	Kiabau	S. Samang	microgabbro	Ub	1	1.2	3	2	D.B.
648	LHm39	Kiabau	S. Samang	microgabbro	Ub	2	2.0	3	2	D.B.
649	LHm40	Kiabau	S. Samang	peridotite	Ub	1	2.0	3	2	R.B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
650	LHm41	Kiabau	S. Samang	peridotite	Ub	1	3.5	4	1	R.B.
651	LHm42	Kiabau	S. Labuk	---	P ₂ Ks	1	2.5	2	3	B.
652	LHm43	Kiabau	S. Labuk	---	P ₂ Ks	2	3.5	3	3	B.
653	LHm44	Kiabau	S. Labuk	---	KPCs	1	1.5	3	1	D.B.
654	LHm45	Kiabau	S. Labuk	---	KPCs	2	4.5	3	1	D.B.
655	LHm46	Kiabau	S. Labuk	---	Ub	2	2.0	4	1	D.B.
656	LHm47	Kiabau	S. Labuk	---	P ₂ Ks	1	1.2	2	3	D.B.
657	LHm48	Kiabau	S. Maralabu	---	P ₂ Ks	1	3.0	2	1	B.G.
658	LHm49	Kiabau	S. Maralabu	---	Ub	1	3.0	2	1	G.
659	LHm50	Kiabau	S. Maralabu	---	Ub	1	2.0	2	1	B.G.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
660	LJg01	Sungai Sungai	S. Sugut	---	Q ₂	1	8.0	1	4	Y.B.
661	LJg02	Sungai Sungai	S. Sugut	---	Q ₂	1	3.0	1	4	Y.B.
662	LJg03	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	1.0	1	4	Y.B.
663	LJg04	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	3.0	2	2	B.
664	LJg05	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	1.0	1	4	Y.B.
665	LJg06	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	4.0	1	4	Y.B.
666	LJg07	Sungai Sungai	S. Sugut	---	P ₂ Cr	2	3.0	2	3	B.
667	LJg08	Sungai Sungai	S. Sugut	---	P ₂ Cr	3	3.0	2	3	B.
668	LJg09	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	6.0	2	4	Y.B.
669	LJg10	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	5.0	2	4	Y.B.
670	LJg11	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	3.0	2	2	B.
671	LJg12	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	4.0	2	2	B.
672	LJg13	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	5.0	1	4	B.
673	LJg14	Sungai Sungai	S. Sugut	---	P ₂ Cr	2	3.0	1	4	Y.
674	LJg15	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	1.5	1	4	B.
675	LJg16	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	2.0	1	4	Y.
676	LJg17	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	4.0	1	4	Y.B.
677	LJg18	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	4.0	1	1	Y.B.
678	LJg19	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	1.5	3	2	B.G.
679	LJg20	Sungai Sungai	S. Sugut	---	P ₂ Cr	2	2.5	4	2	B.
680	LJg21	Sungai Sungai	S. Sugut	---	P ₂ Cr	1	1.0	2	3	B.
681	LJg22	Sungai Sungai	S. Sugut	---	P ₂ Cr	2	3.0	2	2	L.G.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
682	LJh01	Sungai Sungai	S. Sugut	s. s./shale	P ₂ Cr	1	1.5	3	2	B.
683	LJh02	Sungai Sungai	S. Sugut	s. s./shale	P ₂ Cr	1	1.5	3	2	B.
684	LJh03	Sungai Sungai	S. Sugut	s. s./shale	P ₂ Cr	1	2.0	4	2	B.
685	LJh04	Sungai Sungai	S. Bongaya	—	P ₂ Cr	1	2.0	2	3	L.B.
686	LJh05	Sungai Sungai	S. Bongaya	—	P ₂ Cr	2	3.0	2	3	L.B.
687	LJh06	Sungai Sungai	S. Bongaya	—	P ₂ Cr	2	4.0	3	2	L.B.
688	LJh07	Sungai Sungai	S. Bongaya	—	P ₂ Cr	1	3.0	2	3	L.B.
689	LJh08	Sungai Sungai	S. Bongaya	s. s./silt.	P ₂ Cr	1	2.0	2	3	L.G.
690	LJh09	Sungai Sungai	S. Makopako	—	P ₂ Cr	3	5.0	3	3	L.B.
691	LJh10	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	2.0	2	3	L.B.
692	LJh11	Sungai Sungai	S. Makopako	—	P ₂ Cr	2	6.0	3	3	L.Y.
693	LJh12	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	3.0	3	3	L.Y.
694	LJh13	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	2.5	4	3	L.Y.
695	LJh14	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	3.0	4	3	L.Y.
696	LJh15	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	1.5	3	3	Y.B.
697	LJh16	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	3.0	2	3	L.Y.
698	LJh17	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	2.0	3	3	L.Y.
699	LJh18	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	3.0	2	3	L.Y.
700	LJh19	Sungai Sungai	S. Makopako	—	P ₂ Cr	1	2.0	3	3	L.Y.
701	LJh20	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	0.5	2	4	B.Y.
702	LJh21	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	1.0	3	4	B.Y.
703	LJh22	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	2.0	2	3	L.G.
704	LJh23	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	3.0	2	3	L.B.
705	LJh24	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	2.0	3	3	L.B.
706	LJh25	Sungai Sungai	S. Sugut	sandstone	P ₂ Cr	1	2.0	4	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
707	LJj01	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	2.0	3	3	L.B.
708	LJj02	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	2.0	3	4	L.B.
709	LJj03	Sungai Sungai	S. Labuk	—	P ₃ Kd	1	2.0	2	3	L.B.
710	LJj04	Sungai Sungai	S. Labuk	—	P ₃ Kd	1	2.0	3	3	L.B.
711	LJj05	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	3.0	3	4	B.
712	LJj06	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	2.0	4	3	L.B.
713	LJj07	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	2.0	3	3	W.B.
714	LJj08	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	2.0	3	4	W.B.
715	LJj09	Sungai Sungai	S. Labuk	—	P ₃ Kd	1	2.0	3	3	L.B.
716	LJj10	Terusan Sapi	S. Labuk	—	P ₂ Cr	2	5.0	3	3	B.
717	LJj11	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	3.0	3	3	L.B.
718	LJj12	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	1.5	3	3	L.B.
719	LJj13	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	1.5	3	3	L.B.
720	LJj14	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	2	6.0	3	4	B.Y.
721	LJj15	Sungai Sungai	S. Tungud	—	P ₂ Cr	1	2.0	3	3	B.
722	LJj16	Sungai Sungai	S. Tungud	shale	P ₂ Cr	2	3.0	4	2	B.
723	LJj17	Sungai Sungai	S. Tungud	shale	P ₂ Cr	1	4.0	3	2	Y.B.
724	LJj18	Sungai Sungai	S. Tungud	gabbro	Ub	2	3.0	4	2	D.B.
725	LJj19	Sungai Sungai	S. Labuk	gabbro	Ub	1	3.0	3	3	B.
726	LJj20	Sungai Sungai	S. Labuk	—	P ₂ Cr	1	3.0	4	2	B.
727	LJj21	Sungai Sungai	S. Labuk	—	P ₂ Cr	1	3.0	3	1	G.B.
728	LJj22	Sungai Sungai	S. Tungud	sandstone	P ₃ Kd	1	1.0	3	3	Y.
729	LJj23	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	1.0	3	4	Y.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
730	LJj24	Kiabau	S. Paliau	peridotite	Ub	1	0.5	3	1	P.B.
731	LJj25	Kiabau	S. Paliau	peridotite	Ub	1	1.5	4	1	P.B.
732	LJj26	Kiabau	S. Paliau	peridotite	Ub	2	5.0	3	1	P.B.
733	LJj27	Kiabau	S. Paliau	peridotite	Ub	1	4.0	3	1	D.G.
734	LJj28	Kiabau	S. Paliau	peridotite	Ub	1	4.0	4	1	D.G.
735	LJj29	Terusan Sapi	S. Paliau	peridotite	Ub	1	4.0	4	1	P.B.
736	LJj30	Terusan Sapi	S. Labuk	—	Ub	1	3.0	3	2	B.
737	LJj31	Terusan Sapi	S. Labuk	—	P ₂ Cr	2	3.0	2	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
738	LJk01	Kiabau	S. Matapatan	—	P ₂ Cr	3	8.0	3	2	B.
739	LJk02	Kiabau	S. Matapatan	—	P ₂ Cr	3	6.0	3	2	B.
740	LJk03	Kiabau	S. Matapatan	—	P ₂ Cr	2	8.0	4	2	B.
741	LJk04	Kiabau	S. Matapatan	—	P ₂ Cr	2	8.0	3	2	B.
742	LJk05	Kiabau	S. Padau Lawan	—	P ₂ Cr	3	8.0	4	1	B.
743	LJk06	Kiabau	S. Padau Lawan	—	P ₂ Cr	3	10.0	4	2	B.
744	LJk07	Kiabau	S. Padau Lawan	—	P ₂ Cr	2	6.0	3	3	D.B.
745	LJk08	Kiabau	S. Padau Lawan	—	P ₂ Cr	2	4.0	4	2	B.
746	LJk09	Kiabau	S. Padau Lawan	—	Ub	1	3.0	3	3	D.B.
747	LJk10	Kiabau	S. Padau Lawan	—	Ub	2	4.0	3	2	B.
748	LJk11	Kiabau	S. Padau Lawan	—	Ub	1	2.0	3	3	B.
749	LJk12	Kiabau	S. Padau Lawan	—	P ₂ Cr	2	6.0	4	1	D.B.
750	LJk13	Kiabau	S. Padau Lawan	—	KPCs	1	3.0	4	1	D.B.
751	LJk14	Kiabau	S. Padau Lawan	—	KPCs	1	5.0	3	2	B.
752	LJk15	Kiabau	S. Padau Lawan	—	Ub	1	4.0	3	2	B.
753	LJk16	Kiabau	S. Labuk	—	P ₂ Cr	1	4.0	3	1	Y.
754	LJk17	Kiabau	S. Labuk	—	P ₂ Cr	1	4.0	3	1	Y.
755	LJk18	Kiabau	S. Labuk	—	P ₂ Cr	1	6.0	3	3	D.G.
756	LJk19	Kiabau	S. Labuk	—	P ₂ Cr	1	4.0	3	1	D.G.
757	LJk20	Kiabau	S. Paliau	peridotite	Ub	1	0.5	4	1	D.B.
758	LJk21	Kiabau	S. Paliau	peridotite	Ub	2	2.0	4	1	P.B.
759	LJk22	Terusan Sapi	S. Matapatan	—	Q ₂	3	12.0	4	2	D.B.
760	LJk23	Terusan Sapi	S. Paliau	—	Q ₂	2	14.0	2	1	B.
761	LJk24	Terusan Sapi	S. Paliau	shale	P ₂ Cr	2	7.0	3	1	P.B.
762	LJk25	Terusan Sapi	S. Paliau	—	P ₂ Cr	2	7.0	3	1	P.B.
763	LJk26	Terusan Sapi	S. Paliau	—	P ₂ Cr	1	1.0	4	2	B.
764	LJk27	Terusan Sapi	S. Paliau	—	P ₂ Cr	1	6.0	4	1	D.G.
765	LJk28	Terusan Sapi	S. Paliau	—	P ₂ Cr	2	7.0	3	1	D.G.
766	LJk29	Terusan Sapi	S. Polog	—	KPCs	2	13.0	4	1	D.B.
767	LJk30	Terusan Sapi	S. Polog	peridotite	KPCs	2	8.0	4	3	D.B.
768	LJk31	Terusan Sapi	S. Bidu Bidu	—	KPCs	2	6.0	3	2	D.G.
769	LJk32	Terusan Sapi	S. Bidu Bidu	—	KPCs	1	2.0	4	1	P.B.
770	LJk33	Terusan Sapi	S. Bidu Bidu	—	KPCs	1	3.0	3	1	P.B.
771	LJk34	Terusan Sapi	S. Bidu Bidu	—	KPCs	1	8.0	4	1	D.B.
772	LJk35	Terusan Sapi	S. Bidu Bidu	peridotite	Ub	1	6.0	4	1	D.G.
773	LJk36	Terusan Sapi	S. Bidu Bidu	peridotite	Ub	1	6.0	4	1	D.G.
774	LJk37	Terusan Sapi	S. Labuk	—	Ub	1	3.0	4	1	B.
775	LJk38	Terusan Sapi	S. Labuk	—	P ₂ Cr	1	3.0	3	2	B.
776	LJk39	Terusan Sapi	S. Labuk	—	P ₂ Cr	2	3.0	3	2	B.
777	LJk40	Terusan Sapi	S. Labuk	—	P ₂ Cr	1	1.5	3	2	B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
778	LJk41	Terusan Sapi	S. Labuk	---	KPCs	1	4.0	3	4	B.
779	LJk42	Terusan Sapi	S. Labuk	---	P ₂ Cr	2	3.0	3	3	G.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
780	LJm01	Kiabau	S. Labuk	---	Q ₂	2	7.0	2	3	D.G.
781	LJm02	Kiabau	S. Labuk	---	P ₂ Ks	1	4.0	2	2	D.G.
782	LJm03	Kiabau	S. Labuk	---	P ₂ Ks	2	9.0	3	1	D.G.
783	LJm04	Kiabau	S. Meliau	---	P ₂ Ks	2	4.0	2	3	D.B.
784	LJm05	Kiabau	S. Meliau	pillow br.	KPCs	1	2.0	3	3	D.B.
785	LJm06	Kiabau	S. Meliau	---	P ₂ Ks	3	15.0	4	1	D.B.
786	LJm07	Kiabau	S. Labuk	---	Q ₂	2	4.0	4	1	B.
787	LJm08	Kiabau	S. Labuk	---	Ub	1	3.0	4	1	B.
788	LJm09	Kiabau	S. Polog	---	Q ₂	2	13.0	4	1	B.
789	LJm10	Kiabau	S. Polog	peridotite	Ub	2	10.0	4	1	D.B.
790	LJm11	Kiabau	S. Polog	peridotite	Ub	2	8.0	4	1	D.G.
791	LJm12	Kiabau	S. Polog	peridotite	Ub	1	4.0	4	1	D.B.
792	LJm13	Kiabau	S. Kiabau	---	Ub	1	3.0	4	1	D.B.
793	LJm14	Kiabau	S. Kiabau	---	Ub	2	4.0	3	1	D.B.
794	LJm15	Kiabau	S. Kiabau	---	Ub	1	4.0	3	1	D.B.
795	LJm16	Kiabau	S. Kiabau	---	Q ₂	4	20.0	4	2	G.
796	LJm17	Kiabau	S. Kiabau	peridotite	Ub	1	3.0	4	1	D.B.
797	LJm18	Kiabau	S. Kiabau	peridotite	Ub	1	4.0	4	1	D.B.
798	LJm19	Kiabau	S. Kiabau	---	Ub	4	20.0	4	2	G.
799	LJm20	Kiabau	S. Mau	peridotite	Ub	2	4.0	4	1	D.B.
800	LJm21	Kiabau	S. Mau	---	Ub	1	3.0	3	1	D.B.
801	LJm22	Kiabau	S. Mau	peridotite	Ub	1	1.5	4	1	D.G.
802	LJm23	Kiabau	S. Mau	peridotite	Ub	2	6.0	4	1	B.
803	LJm24	Kiabau	S. Mau	peridotite	Ub	2	6.0	4	1	B.
804	LJm25	Terusan Sapi	S. Polog	peridotite	Ub	1	7.0	3	1	D.B.
805	LJm26	Terusan Sapi	S. Polog	peridotite	Ub	1	4.0	3	2	D.B.
806	LJm27	Terusan Sapi	S. Polog	peridotite	Ub	2	6.0	3	2	D.B.
807	LJm28	Terusan Sapi	S. Polog	peridotite	Ub	1	3.0	4	1	D.B.
808	LJm29	Terusan Sapi	S. Polog	peridotite	Ub	1	5.0	4	1	D.B.
809	LJm30	Kiabau	S. Mau	peridotite	Ub	1	1.5	4	1	D.B.
810	LJm31	Terusan Sapi	S. Sualog	vol. breccia	KPCs	1	6.0	4	1	B.
811	LJm32	Terusan Sapi	S. Sualog	basalt	KPCs	1	0.5	3	1	D.G.
812	LJm33	Terusan Sapi	S. Sualog	---	KPCs	1	6.0	3	1	D.B.
813	LJm34	Terusan Sapi	S. Sualog	---	KPCs	1	1.5	2	1	D.B.
814	LJm35	Terusan Sapi	S. Sualog	---	KPCs	1	2.0	3	1	B.
815	LJm36	Terusan Sapi	S. Sualog	---	KPCs	1	0.5	4	1	B.
816	LJm37	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	6.0	4	1	D.B.
817	LJm38	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	7.0	4	1	D.B.
818	LJm39	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	6.0	4	1	D.B.
819	LJm40	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	3.0	4	1	D.B.
820	LJm41	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	7.0	4	1	D.B.
821	LJm42	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	2.0	4	1	D.B.
822	LJm43	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	1.5	4	1	D.G.
823	LJm44	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	1.5	4	1	D.B.
824	LJm45	Terusan Sapi	S. Bangau B.	peridotite	Ub	1	8.0	4	1	D.B.
825	LJm46	Terusan Sapi	s. Kiabau	peridotite	Ub	1	3.0	4	2	D.B.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
826	LJn01	Kiabau	S. Mau	—	Ub	2	6.0	3	3	D.B.
827	LJn02	Kiabau	S. Mau	—	Ub	2	7.0	4	1	D.B.
828	LJn03	Kiabau	S. Mau	—	Q ₂	2	6.0	3	3	D.B.
829	LJn04	Kiabau	S. Mau	—	Ub	2	4.0	3	2	D.B.
830	LJn05	Kiabau	S. Mau	peridotite	Ub	2	6.0	3	2	D.B.
831	LJn06	Kiabau	S. Mau	—	Ub	2	5.0	4	2	D.B.
832	LJn07	Kiabau	S. Kiabau	—	Q ₂	3	15.0	2	3	B.G.
833	LJn08	Kiabau	S. Kiabau	—	Q ₂	3	6.0	3	2	P.B.
834	LJn09	Kiabau	S. Kiabau	—	Q ₂	2	7.0	2	3	P.B.
835	LJn10	Kiabau	S. Kiabau	—	Q ₂	2	4.0	4	2	P.B.
836	LJn11	Kiabau	S. Mormud	peridotite	Ub	2	12.0	4	2	D.B.
837	LJn12	Kiabau	S. Mormud	peridotite	Ub	2	10.0	4	2	D.B.
838	LJn13	Kiabau	S. Mau	peridotite	Ub	1	3.0	4	2	D.B.
839	LJn14	Terusan sapi	S. Mormud	peridotite	Ub	2	10.0	4	2	D.B.
840	LJn15	Terusan sapi	S. Mormud	peridotite	Ub	1	3.0	4	2	D.B.
841	LJn16	Terusan sapi	S. Mormud	peridotite	Ub	1	3.0	4	2	D.B.
842	LJn17	Terusan sapi	S. Mormud	peridotite	Ub	2	10.0	4	2	D.B.
843	LJn18	Terusan sapi	S. Kiabau	—	P ₂ Cr	2	8.0	3	3	P.B.
844	LJn19	Terusan sapi	S. Kiabau	—	P ₂ Cr	1	1.5	2	4	G.
845	LJn20	Terusan sapi	S. Kiabau	—	P ₂ Cr	1	6.0	3	3	G.
846	LJn21	Terusan sapi	S. Kiabau	—	P ₂ Cr	1	6.0	3	3	B.
847	LJn22	Terusan sapi	S. Kiabau	—	P ₂ Cr	1	4.0	4	4	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
848	LKg01	Sungai Sungai	S. Sugut	—	Q ₂	1	6.0	1	4	Y.B.
849	LKg02	Sungai Sungai	S. Sugut	—	Q ₂	1	6.0	1	4	Y.B.
850	LKg03	Sungai Sungai	S. Sugut	—	Q ₂	1	8.0	1	4	D.B.
851	LKg04	Sungai Sungai	S. Sugut	—	Q ₂	1	6.0	1	4	Y.B.
852	LKg05	Sungai Sungai	S. Sugut	—	Q ₂	1	5.0	1	4	Y.B.
853	LKg06	Sungai Sungai	S. Sugut	—	Q ₂	1	1.5	1	4	Y.B.
854	LKg07	Sungai Sungai	S. Sugut	—	Q ₂	2	1.5	1	4	Y.B.
855	LKg08	Sungai Sungai	S. Sugut	—	Q ₂	2	14.0	1	4	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
856	LKh01	Sungai Sungai	S. Botitian	sandstone	P ₂ Cr	1	2.0	3	3	Y.B.
857	LKh02	Sungai Sungai	S. Botitian	sandstone	P ₂ Cr	2	2.0	4	3	Y.B.
858	LKh03	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	2.0	3	3	Y.B.
859	LKh04	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	3	5.0	3	3	Y.B.
860	LKh05	Sungai Sungai	S. Botitian	sandstone	P ₂ Cr	3	4.0	3	3	W.B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
861	LKh06	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	2	3.0	3	2	L. B.
862	LKh07	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	3	3.0	3	3	L. B.
863	LKh08	Sungai Sungai	S. Bongaya	sandstone	P ₂ Cr	1	2.0	2	3	Y. B.
864	LKh09	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	3	5.0	2	3	Y. B.
865	LKh10	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	2.0	1	3	L. B.
866	LKh11	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	1.0	2	3	L. B.
867	LKh12	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	3.0	2	3	L. B.
868	LKh13	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	1	1.5	3	3	L. B.
869	LKh14	Sungai Sungai	S. Makopako	sandstone	P ₂ Cr	3	5.0	2	3	L. G. B.
870	LKh15	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	1	1.0	1	3	L. B.
871	LKh16	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	1	0.5	2	3	W. G. B.
872	LKh17	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	1	1.5	2	3	Y. B.
873	LKh18	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	1	2.0	2	3	Y. B.
874	LKh19	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	2	1.5	2	3	Y. B.
875	LKh20	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	2	2.0	2	3	L. G. B.
876	LKh21	Sungai Sungai	S. Batitian	sandstone	P ₂ Cr	2	2.0	2	3	L. B.
877	LKh22	Sungai Sungai	S. Bongaya	sandstone	P ₂ Cr	2	4.0	4	3	L. G. B.
878	LKh23	Sungai Sungai	S. Bongaya	sandstone	P ₂ Cr	1	1.5	2	3	L. G. B.
879	LKh24	Sungai Sungai	S. Bongaya	sandstone	P ₂ Cr	2	3.0	2	3	L. B.
880	LKh25	Sungai Sungai	S. Bongaya	sandstone	P ₂ Cr	1	2.0	2	3	L. B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
881	LKj01	Sungai Sungai	S. Tungud	—	Q ₂	1	1.0	2	3	L. G.
882	LKj02	Sungai Sungai	S. Long Long	—	Q ₂	1	1.5	2	4	L. G. B.
883	LKj03	Sungai Sungai	S. Tungud	—	Q ₂	1	1.4	4	4	L. G. B.
884	LKj04	Sungai Sungai	S. Botitian	—	P ₂ Cr	1	3.0	3	3	Y. B.
885	LKj05	Sungai Sungai	S. Botitian	—	P ₂ Cr	3	5.0	2	3	Y. B.
886	LKj06	Sungai Sungai	S. Tungud	—	Q ₂	1	1.5	3	4	B.
887	LKj07	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	1.5	3	3	Y. B.
888	LKj08	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	2.0	3	3	W. B.
889	LKj09	Sungai Sungai	S. Tungud	—	P ₃ Kd	1	1.0	4	3	Y. B.
890	LKj10	Sungai Sungai	S. Tungud	—	P ₃ Kd	2	1.5	3	3	Y. B.
891	LKj11	Terusan Sapi	—	—	P ₂ Cr	1	1.5	2	3	L. B.
892	LKj12	Sungai Sungai	S. Tungud	—	Q ₂	1	1.5	2	3	L. G. B.
893	LKj13	Sungai Sungai	S. Tungud	—	Q ₂	1	2.0	1	4	B.
894	LKj14	Terusan Sapi	—	—	P ₂ Cr	2	4.0	4	3	B.
895	LKj15	Terusan Sapi	—	—	P ₂ Cr	1	2.0	3	3	L. B.
896	LKj16	Terusan Sapi	—	—	P ₂ Cr	1	2.0	2	4	L. B.

*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
897	LKk01	Terusan Sapi	Terusan Sapi	—	P ₂ Ks	2	3.0	3	1	D.B.
898	LKk02	Terusan Sapi	S. Labuk	—	KPCs	1	1.5	4	1	D.G.
899	LKk03	Terusan Sapi	S. Labuk	—	Q ₂	2	1.5	2	1	G.
900	LKk04	Terusan Sapi	S. Labuk	—	Q ₂	1	1.0	3	1	G.
901	LKk05	Terusan Sapi	Terusan Sapi	—	Q ₂	1	1.5	3	1	G.
902	LKk06	Terusan Sapi	Terusan Sapi	—	Q ₂	1	2.0	3	1	P.B.
903	LKk07	Terusan Sapi	Terusan Sapi	peridotite	Ub	1	5.0	4	1	D.G.
904	LKk08	Terusan Sapi	Terusan Sapi	—	Q ₂	2	6.0	4	1	P.B.
905	LKk09	Terusan Sapi	Terusan Sapi	—	P ₂ Ks	1	1.0	4	1	D.G.
906	LKk10	Terusan Sapi	Terusan Sapi	—	Q ₂	1	1.0	4	1	G.
907	LKk11	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	1.0	3	1	P.B.
908	LKk12	Terusan Sapi	—	—	P ₂ Cr	1	1.5	3	3	B.
909	LKk13	Terusan Sapi	—	—	P ₂ Cr	1	1.5	2	3	B.
910	LKk14	Terusan Sapi	—	—	P ₂ Cr	2	1.5	3	3	B.
911	LKk15	Terusan Sapi	Terusan Sapi	—	KPCs	1	0.5	4	1	D.B.
912	LKk16	Terusan Sapi	S. Labuk	—	Q ₂	1	2.0	2	1	D.B.
913	LKk17	Terusan Sapi	S. Labuk	—	Q ₂	1	0.5	3	1	G.
914	LKk18	Terusan Sapi	S. Labuk	—	Q ₂	1	0.5	4	1	D.B.
915	LKk19	Terusan Sapi	Terusan Sapi	—	KPCs	1	1.5	2	1	B.
916	LKk20	Terusan Sapi	Terusan Sapi	—	P ₂ Ks	1	2.5	2	1	B.
917	LKk21	Terusan Sapi	Terusan Sapi	—	P ₂ Ks	2	1.0	3	1	Y.
918	LKk22	Terusan Sapi	Terusan Sapi	—	Q ₂	1	1.0	3	1	Y.
919	LKk23	Terusan Sapi	S. Sualog	—	Q ₂	1	0.5	2	1	B.
920	LKk24	Terusan Sapi	Terusan Sapi	red shale	KPCs	1	1.0	3	1	B.
921	LKk25	Terusan Sapi	Terusan Sapi	peridotite	Ub	1	1.0	3	1	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
922	LKm01	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	2.0	2	2	G.
923	LKm02	Terusan Sapi	S. Sualog	—	P ₂ Ks	3	8.0	3	3	D.B.
924	LKm03	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	2.0	4	3	D.B.
925	LKm04	Terusan Sapi	S. Sualog	—	P ₂ Ks	3	3.0	4	3	D.B.
926	LKm05	Terusan Sapi	S. Sualog	—	P ₂ Ks	2	3.0	3	2	B.
927	LKm06	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	2.0	3	1	D.B.
928	LKm07	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	1.5	3	2	B.
929	LKm08	Terusan Sapi	S. Sualog	—	P ₂ Ks	1	2.0	3	1	D.B.
930	LKm09	Terusan Sapi	S. Sualog	—	KPCs	1	2.0	3	1	D.B.
931	LKm10	Terusan Sapi	S. Sualog	—	P ₂ Ks	3	9.0	3	3	B.
932	LKm11	Terusan Sapi	S. Sualog	—	KPCs	2	7.0	3	1	B.
933	LKm12	Terusan Sapi	S. Sualog	—	KPCs	1	1.0	2	1	D.G.
934	LKm13	Terusan Sapi	S. Sualog	peridotite	Ub	3	7.0	3	1	B.
935	LKm14	Terusan Sapi	S. Sualog	—	KPCs	3	7.0	3	1	B.
936	LKm15	Terusan Sapi	S. Sualog	—	KPCs	2	8.0	2	1	B.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
937	LKm16	Terusan Sapi	S. Sualog	---	KPCs	2	1.0	2	1	B.
938	LKm17	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	7.0	3	3	D.B.
939	LKm18	Terusan Sapi	S. Bangau B.	sandstone	P ₄ Gr	1	5.0	3	3	D.B.
940	LKm19	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	4	2	D.B.
941	LKm20	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	4	1	D.B.
942	LKm21	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	3	3	D.B.
943	LKm22	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	3	12.0	3	3	D.B.
944	LKm23	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	3	20.0	4	2	D.B.
945	LKm24	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	2.0	2	2	D.B.
946	LKm25	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	3	3	B.
947	LKm26	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	3	7.0	3	1	D.B.
948	LKm27	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	2	14.0	4	1	D.G.
949	LKm28	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	4.0	4	1	D.G.
950	LKm29	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	4.0	3	1	D.G.
951	LKm30	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	5.0	3	1	D.G.
952	LKm31	Terusan Sapi	S. Bangau B.	peridotite	Ub	2	1.5	4	1	D.G.
953	LKm32	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	3	1	B.
954	LKm33	Terusan Sapi	S. Bangau B.	---	P ₄ Gr	1	3.0	3	3	D.B.
955	LKm34	Terusan Sapi	---	---	P ₄ Gr	1	3.0	2	3	D.G.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
956	LKn01	Terusan Sapi	S. Kibut	---	Ub	1	4.0	2	3	G.
957	LKn02	Terusan Sapi	S. Kibut	---	P ₄ Gr	2	2.0	3	3	B.G.
958	LKn03	Terusan Sapi	S. Kibut	---	Ub	1	3.0	3	3	B.G.
959	LKn04	Terusan Sapi	S. Kibut	---	Ub	1	4.0	2	3	G.
960	LKn05	Terusan Sapi	S. Kibut	sandstone	P ₄ Gr	2	8.0	4	3	D.G.
961	LKn06	Terusan Sapi	S. Kibut	peridotite	Ub	2	5.0	3	2	D.G.
962	LKn07	Terusan Sapi	S. Kibut	peridotite	Ub	1	4.0	3	2	D.G.
963	LKn08	Terusan Sapi	S. Kibut	peridotite	Ub	1	4.0	3	2	D.G.
964	LKn09	Terusan Sapi	S. Kibut	peridotite	Ub	1	6.0	4	2	D.G.
965	LKn10	Terusan Sapi	S. Kibut	peridotite	Ub	2	9.0	3	3	G.
966	LKn11	Terusan Sapi	S. Kibut	peridotite	Ub	1	3.0	4	1	B.G.
967	LKn12	Terusan Sapi	---	---	Ub	1	5.0	4	2	D.B.
968	LKn13	Terusan Sapi	---	---	Ub	1	6.0	3	3	B.
969	LKn14	Terusan Sapi	---	---	Ub	2	8.0	4	2	D.B.
970	LKn15	Terusan Sapi	---	peridotite	Ub	1	2.0	4	3	D.B.
971	LKn16	Terusan Sapi	---	peridotite	Ub	2	10.0	4	3	D.B.
972	LKn17	Terusan Sapi	---	peridotite	Ub	1	3.0	4	1	D.G.
973	LKn18	Terusan Sapi	---	peridotite	Ub	2	6.0	4	3	D.B.
974	LKn19	Terusan Sapi	---	peridotite	Ub	1	1.0	3	1	D.B.
975	LKn20	Terusan Sapi	---	peridotite	Ub	2	6.0	4	1	B.
976	LKn21	Terusan Sapi	S. Kibut	peridotite	Ub	1	3.0	3	2	G.

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)