References

REFERENCES

Aizawa K., Date J., Sato Y. (1981): Exploration for the Ezuri Kuroko Deposit, Akita Pref., Japan. Exploration for ore deposits in Japan 160-167 (in Japanese)

Çağatay M. N. (1993): Hydrothermal Alteration Associated with Volcanogenic Massive Sulfide Deposits: Examples from Turkey. Economic Geology vol. 88, 606-621

Date J. (1993): Kuroko Type Deposits in Turkey. Soc. Mining Geol. Japan, vol. 44(1) 65-74 (in Japanese)

Eren M.,Kadir S.(2001): Colour genesis of Upper Cretaceous pelagic red sediments within the Eastern Pontides, NE Turkey. Yerbilimleri, 71-79

Erendil, M. (1994): Geology of the Anatorian Peninsula. Geology & Mineral Resources of Turkey. MTA 1-10

ERSDAC(1999): Study for Satellite Images Analytical Technique on Exploration of Metal Resources on Trabzon Area, Turkey. Report on Research and Development of Remote Sensing Technology for Non-renewable Resources 3/5 241-285 Phase Ⅰ (in Japanese)

ERSDAC(2000): Study for Satellite Images Analytical Technique on Exploration of Metal Resources on Trabzon Area, Turkey. Report on Research and Development of Remote Sensing Technology for Non-renewable Resources 3/5 223-269 Phase Ⅱ (in Japanese)

ERSDAC (2001): Study for Satellite Images Analytical Technique on Exploration of Metal Resources on Trabzon Area, Turkey. Report on Research and Development of Remote Sensing Technology for Non-renewable Resources 3/5 1.3.16-1 - 1.3.16-15 Phase Ⅲ (in Japanese)

Friedman I., O'Neil, J.R. (1977): Compilation of Stable Isotope Fraction Factors of Geochemical Interest. USGS Professional Paper, Data of Geochemistry, Chapter KK, KK1-KK12.

Ishikawa Y., Sawaguchi T., Iwaya S., Horiguchi M. (1976): Delination of Prospecting Targets for Koroko Deposits. Based on Mode of Volcanism of Underlying Dacite and Alteration Halos. Soc. Mining Geol. Japan, vol. 26 105-117 (in Japanese)

Ishikawa Y. (1991): Kuroko Deposit. Kyoritsu Publishing (in Japanese)

JICA and MMAJ（1996）: The Mineral Resources Exploration in The Espiye Area, The Republic of Turkey. Phase Ⅰ

JICA and MMAJ（1997）: The Mineral Resources Exploration in The Espiye Area, The

Republic of Turkey. Phase Ⅱ

JICA and MMAJ（1998）：The Mineral Resources Exploration in The Espiye Area, The Republic of Turkey. Phase Ⅲ

Korkmaz S., Er M., Van A., Musaoğlu A., Keskin I., Tüysüz N. (1992): Stratigraphy of the Eastern Pntides, NE-Turkey. Proceedings of ISGB (International Symposium on the Geology of the Black Sea Region)

Kraëff, A. (1963): Geology and Mineral Deposits of Hopa-Murgul. MTA Bull., no.60, 45-60

Kraëff, A. (1963): A contribution to the geology of the region between Sirya and Ardanuç. MTA Bull., no.60, 37-59

Kanbara H., Sato K. Sato S., Hirayama H. (1983): Acidic volcanism and kuroko deposits in the Shakanai mining Area, Akita, Japan. Soc. Mining Geol. Japan, Spec. Issue, 11 197-214 (in Japanese)

Matsuhisa Y. Utada M. (1993): Hydrothermal activity responsible for the Kuroko mineralization inferred from oxygen isotopic ratios of altered rocks from the Hokuroku district, northern Japan. Bull. Geol. Surv. Japan, vol. 44 (2/3/4), 155-168 (in Japanese)

MITI (2000): Development for Geochemical Exploration Technique -Isotope Geochemistry- (in Japanese)

MMAJ (2001): Paleo-Tethys Conversion Suture(Turkey-Caucasus) Area Report on Overseas Satellite Image Analysis. Phase Ⅰ (in Japanese)

MMAJ (2002): Paleo-Tethys Conversion Suture(Turkey-Caucasus) Area Report on Overseas Satellite Image Analysis. Phase Ⅱ (in Japanese)

MTA (1957): A guide to the known minerals of Turkey.

MTA (1965): Pyrites and Sulphur Deposits of Turkey

MTA (1972): Lead, Copper and Zinc Deposits of Turkey

MTA (1972): Çamlıköy, Peronit, Sivrikaya, Tepeköy, Kutnit, Artvin. Yörelerinin-Maden Jeolojisi Raporu.

MTA (1994): Exploration of Massive Sulphide Deposits in Ardesen-Hopa Region, Eastern Black Sea, Proposal Report

MTA (2001): A Joint Mineral Exploration Project Proposal Two Areas(Bursa-Eskisehir and Hopa - Fındıklı areas) in Turkey.

MTA (2002): MTA-MMAJ-JICA Team Technical Exploration Program Around Rize-Artvin Area

Özgür N. (1993): Volcanogenic Massive Sulfide Deposits in the East Pontic Metallotect, NE Turkey. Soc. Resource Geol. Japan, Spec. Issue 17, 180-185

Pearce, J.A. (1983): Role of the Sub-continental Lithosphere in Magma Genesis at Active Continental. Continental Basalts and Mantle Xenoliths. Siva Publishing, 230-249

Sasaki.A (1977): Stable Isotope and Ore Deposit. Basis of Modern Economic Geology. 77-95 Tokyo Univ. Publishing. (in Japanese)

Sakai H., Matsuhisa Y. (1996): Stable Isotope Geochemistry. Tokyo Univ. Publishing. (in Japanese)

Şkuletiç T. (1973) Semidetailed 1 : 10,000 Scale Mapping and Prospecting of the Tunca – Zigam Area, SE of Ardesen. MTA.

Tanimura S., Yamada R. (1981): Exploration for the Fukazawa Kuroko Deposit, Akita Pref., Japan. Exploration for ore deposits in Japan 151-160 (in Japanese)

Todoroviç Z. and Nebioğlu T. (1972): Tunca Bakir Zuhuru. Derleme. MTA.

Utada, M. (1977): Wall Rock Alteration. Basis of Modern Economic Geology. 77-95 Tokyo Univ. Publishing. (in Japanese)

Utada, M. (1988): Hydrothermal Alteration. Envelope Relating to Kuroko-Type Mineralization: A Review. Soc. Mining Geol. Japan, Spec. Issue, 11 79-92

Yamagishi H. (1985): Recent Study for Subaqueous Volcanic Products. Volcanic Activity of Izu - Mariana Arc(1). The Earth Monthly vol. 78 627-631

Yildiz B. (1983): The Relationships Between Cu-Pb-Zn Mineralizations and Certain Structures Identified on LANDSAT IMAGES in the Eastern Black Sea Region. Bulletin of the Mineral Research and Exploration Institute of Turkey. No.99, 49-55

Appendixes

Appendix 1

Results of Microscopic Observation of Thin Section

Appendix 1 Results of Microscopic Observation of Thin Section (1)

No.	Sample	Coodination		Rock	Rock Name	Texture	Phenocrysts										Groundmass										Secondary Minerals										Remarks
		UTM-E	UTM-N				Q	Pl	Ab	Bt	Hn	Au	Ol	Fe	Ap	Sp	G	Q	Pl	Ab	Bt	Px	Au	Op	Fe	Ap	Il	Q	Py	Cl	Ch	Ser	Cal	Ep	Op	Hm	Ze	Fe	
1	A003	0691943	4566560	Pedc	Aphyric Dacite (Rhyolite)	Aphyric	△	△									◎								△			◎	△			△							strongly silicified
2	A047	684200	4554020	Stf	Lapilli Tuff																							○	△		△	△		△				△	
3	A048	684157	4553904	Ad	Augite Andesite	Intergranular		◎				△					○	○	◎				◎		○			○			△	△		△					
4	A055	682499	4551846	Cbs	Aphyric Basalt	Aphyric		◎	△		○	◎		○																								fresh
5	A057	679700	4558280	Stf	Pumice coarse Tuff																							○	△		○	○						△	Basalt, Andesite, Dacite, Rhyolite, Mudstone fragment
6	A101	672217	4555451	Adcl	Aphyric Dacite	Aphyric		△									◎																					strongly silicified
7	A108	684870	4553940	Stf	Coarse Tuff																							◎			△	△	△	△		△			strongly silicified, Andesite.
8	A121	674552	4553067	Ahtf	Coarse Tuff																							◎			○	○				△			
9	A123	675291	4552618	Hdc	Augite Biotite Hornblende Dacite	Cryptocrystalline	△	◎		·		·		△			◎		◎	△					△	△												△	
10	A125	681720	4556130	Ad	Porphyritic Andesite	Porphyritic		◎						△			◎		◎	○		△	◎		◎						△						△	fresh
11	A135	680157	4558933	Dci	Augite Trachyte	Aphyric, Trachytic			△			△		△		·					·		·		○												△	fresh
12	A136	680372	4558346	Dol	Hornblende Augite Dolerite	Subophitic	○	◎	△		○	◎		○	△														○	△	△		△					
13	A141	678264	4554816	Cls	Red Calcareous Mudstone																																	Calcite, Mud, Iron Oxide.
14	A031	680630	4556000	Stf	Muddy fine Tuff																																	weakly metamorphosed
15	A177	676910	4554731	Adcp	Aphyric Dacite (Rhyolite)	Aphyric		△									◎	◎	◎						△			◎				△					△	
16	A179	676807	4554973	Atf	Rhyolitic coarse Tuff																							◎			△	△						△	strongly silicified. Rhyolite fragment.
17	A197	680650	4556015	Dci	Aphyric Dacite (Rhyolite)	Aphyric											◎		○	◎					△			○		△	△		△				△	
18	A198	677821	4555103	Dcb	Biotite Hornblende Dacite	Porphyritic		◎		○	◎				·		◎		◎	△	△				△	△		△			△							△	
19	A200	674584	4554725	Atf	Rhyolitic lapilli Tuff																							◎				△						△	strongly silicified. Rhyolite fragment.
20	AA010	697797	4582537	Pdc	Hornblende Dolerite (Rhyolite)	Hyalopilitic	○	○			△						◎											◎				○					△	strongly silicified
21	AA013	716336	4570062	Ptf	Lapilli Tuff																							◎	○			◎							strongly silicified. Rhyolite fragment.
22	A173	672266	4555450	Atf	Tuffaceos Mudstone																								△	△			◎						Mudstone, Tuff alternation.
23	B036	673350	4555450	Adcp	Aphyric Dacite	Aphyric		△										◎	◎	○					△			◎			△	△					△	strongly altered.
24	B059	683950	4556600	Stf	Fine Tuff																							◎			△	○	△						strongly altered.
25	B076	687488	4554623	Dol	Augite Hornblende Andesite	Intergranular		◎			◎	◎		○				◎	◎	△				◎		○			○	△		△	△	△	△			△	
26	B125	680000	4552520	Stf	Fine Tuff																							◎			△	△	△					△	strongly silicified
27	B134	680910	4552857	Stf	Lapilli Tuff																							○			△			△				△	Andesite, Dacite, Rhyolite fragment.
28	B141	673020	4554300	Cls	Red Calcareous Mudstone																																	Calcite, Mud, Iron Oxide.
29	B193	679920	4557680	Mz	Biotite Augite Monzonite	Subophitic		◎	○	○		◎		○														○		△	○	○						
30	B202	678332	4554732	Cbs	Plagioclase phyric Basalt	Intergranular		○									○		◎				◎		○			△		△	○	△	△					△	
31	B207	678350	4554700	Cbs	Dolerite	Subophitic		△											◎			◎	◎		○					△	△	△						△	
32	B209	678330	4554650	Cbs	Augite Basalt	Intergranular		△				△					◎		◎				○		○						△	△							
33	B213	676565	4553495	Adcl	Aphyric Dacite (Rhyolite)	Aphyric		△									◎											◎		△		△						△	strongly silicified
34	B244	678947	4553860	Stf	Lapilli Tuff (Conglomerate)																							○			△	△							Basalt, Andesite fragment.
35	B245	679132	4553864	Cbs	Olivine Basalt	Intersertal		◎					△				◎		◎				○		○			△			△	△	△					
36	B258	677120	4554320	Atf	Tuff																							◎		△			◎					
37	B275	680372	4553638	Ls	Red Calcareous Mudstone																																	Calcite, Mud, Iron Oxide.
38	BA030	678332	4554772	Atf	Tuff																							◎	△		○							△	strongly silicified
39	BA039	676460	4553768	Adcl	Aphyric Dacite (Rhyolite)	Aphyric		△									◎											◎	△		△	○						△	strongly silicified
40	BA041	676480	4553750	Bs	Aphyric Basalt	Aphyric		△									◎		◎				◎		○			△		△		△						◎	strongly altered.

Appendix 1 Results of Microscopic Observation of Thin Section (2)

No.	Sample	Coodination		Rock	Rock Name	Texture	Phenocrysts										Groundmass										Secondary Minerals										Remarks
		UTM-E	UTM-N				Q	Pl	Ab	Bt	Hn	Au	Ol	Fe	Ap	Sp	G	Q	Pl	Ab	Bt	Px	Au	Op	Fe	Ap	Il	Q	Py	Cl	Ch	Ser	Cal	Ep	Op	Hm	Ze	Fe	
41	BA042	676475	4553720	Adc	Aphyric Dacite (Rhyolite)	Aphyric		△									◎											◎				○						△	strongly silicified
42	BA049	676480	4553600	Adc	Aphyric Dacite (Rhyolite)	Aphyric	・	△									◎											◎	○	△		○							strongly silicified
43	C003	674550	4554350	Adc	Aphyric Dacite	Aphyric		△									◎		◎	○					△			△			△	△	△					△	
44	C011	676951	4552749	Cbs	Aphyric Basalt	Aphyric		・									◎		◎				◎		○			△				△	△						
45	C012	676872	4552803	Atf	Dacitic Pumiceous Tuff																							◎			△	△				○			strongly silicified. Rhyolite fragment.
46	C013	676600	4552950	Cbs	Olivine Basalt	Intersertal							・				◎		◎				◎		◎			◎			△	△	△						
47	C014	677913	4552267	Stf	Lapilli Tuff																							○			△	△		△				△	Basalt, Andesite, Dacite fragment.
48	C020	676992	4551956	Ctf	Basaltic Lapilli Tuff																							△			△	△	△						Basalt, Andesite fragment
49	C035	678318	4552953	Dci	Porphyritic Dacite (Rhyolite)	Porphyritic	○	△									◎											△			△	△						△	
50	C080	683196	4554200	Cbs	Aphyric Basalt	Aphyric		△						△			◎	◎					◎		◎			△			△		△	△					
51	C084	676395	4551386	Dci	Biotite bearing Dacite (Rhyolite)	Glomeroporphyritic		△		△							◎	◎	◎	◎					△			○	△	△	△	○						△	
52	C088	677599	4551467	Dci	Biotite Dacite (Rhyolite)	Glomeroporphyritic	△	◎		△				△	・		◎		◎		◎				△			○		△	△	○						△	
53	C089	677691	4551434	Dci	Biotite Dacite (Rhyolite)	Glomeroporphyritic	△	○		△							◎		◎									○	△		△	○	△					△	
54	C093	677997	4552124	Stf	Pumiceous Lapilli Tuff																							△			△			△				△	Andesite, Dacite fragment.
55	C097	678715	4551173	Stf	Coarse Tuff																							△	△		△	△	△						Basalt, Andesite, Dacite fragment.
56	C108	680294	4551424	Stf	Lapilli Tuff																							△	△		△								Basalt, Andesite, Dacite fragment. thermally metamorphosed
57	C110	679927	4552019	Cbs	Aphyric Basalt	Aphyric											◎		◎				◎		◎			△	△		△		△	△					
58	C114	678440	4554915	Stf	Basaltic Lapilli Tuff																							△	△		△	△							Basalt, Andesite fragment. thermally metamorphosed
59	C118	676452	4553382	Atf	Tuff																							◎	○	△	○	◎	△						strongly silicified
60	C124	678340	4554808	Atf	Tuff																							◎	○		○	◎							strongly silicified
61	C131	676211	4553071	Adcl	Aphyric Dacite (Rhyolite)	Aphyric		△									△		△									◎	△			△						△	strongly silicified
62	D002	674262	4554524	Atf	Pumiceous Tuff																							○	△		△	△	△						Pumice.
63	D003	674259	4554493	Atf	Lapilli Tuff																							○	△	△	△	△	△						Dacite fragment.
64	D023	677107	4555402	Cls	Red Calcareous Mudstone																																	△	Calcite, Mud, Iron Oxide.
65	D035	679114	4556863	Stf	Muddy fine Tuff																																		thermally metamorphosed
66	D057	682835	4555949	Cbs	Plagioclase phyric Basalt	Intersertal		○									◎		◎				◎		◎			△			△	△	△					△	
67	D059	682765	4555875	Ls	Red Calcareous Mudstone																																		Calcite, Mud, Iron Oxide.
68	D068	684864	4558572	Cbs	Plagioclase phyric Basalt	Intersertal		○						△														△		△	△							
69	D080	682587	4558823	Ahtf	Coarse Tuff																							◎	△		△	△							strongly silicified
70	D083	683248	4558165	Stf	Fine Tuff																							△			△	△	△					△	
71	D084	682107	4558063	Sms	Muddy fine Tuff																							△											thermally metamorphosed
72	D093	678200	4557400	Stf	Basaltic Lapilli Tuff																							○	△		△	○							Basalt fragment.
73	D125	675737	4558427	Stf	Pumiceous coarse Tuff																							○	△		△		△						Basalt, Dacite fragment.
74	D126	675597	4558630	Sls	Red Calcareous Mudstone																																		Calcite, Mud, Iron Oxide.
75	D134	678052	4554721	Atf	Lapilli Tuff																							○	△		△	△	△	△					Basalt, Dacite fragment.
76	D142	676166	4553028	Atf	Fine Tuff																							◎			△	△						△	strongly silicified
77	D149	675962	4553300	Adcl	Aphyric Dacite (Rhyolite)	Aphyric		△									◎											◎	△			△							strongly silicified
78	D155	677054	4557512	Cms	Red Calcareous Mudstone																																		Calcite, Mud, Iron Oxide.
79	D163	683094	4556241	Dci	Aphyric Andesite ～Dacite	Aphyric		△									◎	○	◎						△			○	△		△		△						
80	D172	676502	4552766	Atf	Lapilli Tuff																							○		△	△	△	△					△	Dacite fragment.

Appendix 1 Results of Microscopic Observation of Thin Section (3)

No.	Sample	Coodination		Rock	Rock Name	Texture	Phenocrysts										Groundmass											Secondary Minerals										Remarks
		UTM-E	UTM-N				Q	Pl	Ab	Bt	Hn	Au	Ol	Fe	Ap	Sp	G	Q	Pl	Ab	Bt	Px	Au	Op	Fe	Ap	Il	Q	Py	Cl	Ch	Ser	Cal	Ep	Op	Hm	Ze	Fe	
81	A-139	678817	4558313	Sbs	Trachyandesite		○	◎	△		△														△	△					△	·	△						
82	B-084	686441	4555907	Kgr	Diorite			◎			◎	○												△							△	△	△						
83	B-210	678328	4554623	Dcb	Porpyritic Dacite		◎	◎		○														·								·	△						
84	C-008	675837	4553430	Adcp	Dacite		△	△	△									○	◎	△				·							△	△	△						
85	C-037	679274	4552406	Gd	Graphic Granite	Myrmekite	◎	◎	○							·															△	△		△					
86	C-046	681154	4551354	Kgd	Granodiorite		△	◎	◎	△	○					·															△	△		△					
87	C-081	683139	4554197	Dci	Rhyolite		○	○	△	△								○	◎	○											△	△	△						
88	C-103	678930	4551065	Cdb	Diabase			○			○				·					◎		○		△				△			△	△		△					
89	C-107	679718	4550837	Kdr	Granite		◎	◎	◎		△				·																△	△		△					
90	C-150	679200	4553480	Dci	Quartz-Feldspar-Porphyry		○	○	△									◎	◎	△				△							△	△	△						
91	D-128	673119	4557819	Dol	Gabbro/Diorite			◎				○			·			△						△							○	△							
92	JE-01	683949	4554483	Cbs	Basaltic Andesite			△									◎		◎				△				·				○		△	△					
93	JE-06	679250	4555450	Cbs	Andesite/ Fine-grained Diabase			◎				○			·				△			△					·				○			△					
94	JE-07	675500	4555150	Dci	Porpyritic Diorite			○	·		△				·				◎			◎						△			△	△							
95	JE-08	673648	4555424	Cbs	Andesite			○			○				·				◎			◎						△			○		△						
96	JE-10	675583	4556446	Cbs	Amygdaloidal Basalt							△							◎			◎										○	△				△		
97	JE-11	677709	4557140	Dr	Porphyritic Diorite			◎	△	△	△				·									·							◎	△							
98	JE-12	677550	4556400	Cbs	Olivine Pyroxene Gabbro			◎				◎	○		·																◎	△							
99	JE-17	674802	4553740	Adcp	Porpyritic Dacite			△										△	◎	△												△	△						
100	JE-18	674546	4554136	Cbs	Gabbro			◎			△	○			·																◎	△	△						

Il : Ilmenite, Py : Pyrite, Cl : Clay, Ch : Chlorite, Ser : Sercite, Cal : Calcite, Ep : Epidote, Hm : Hematite, Ze : Zeolite.

Appendix 2

Microscopic Observation of Polished Section

Appendix 2 Microscopic Observation of Polished Section (1)

No.	Sample	Location	Coodination		Ore Type	Py	Mc	Hm	Sp	Gn	Cp	Bn	Dg	Cv	Tet	Remarks
			UTM-E	UTM-N												
1	A003-1	Pesansor	0691943	4566560	Silicified Dacite with Pyrite.	◎	・		・		・					
2	A003-2	Pesansor	0691943	4566560	Silicified Dacite with Pyrite.	◎			・		・					
3	A016	Senyuva	76396	55444	Silicified Dacite with Pyrite.	◎			・	・	・					
4	A041	Saskini	83168	55458	Fracture zone. Pyrite, Malachite.			・	・		◎	△		・		
5	A072	Muskale	76535	53490	Argilized Dacite with Pyrite.	◎	・									
6	A096	Muskale	76514	53510	Silicified Dacite with Spharelite, Chalcopyrite.	○			○		△			・	・	
7	A101-1	Garimani	72217	55451	Silicified Dacite with Spharelite, Chalcopyrite.	△			◎		△					
8	A101-2	Garimani	72217	55451	Silicified Dacite with Spharelite, Chalcopyrite.	○			○		△					
9	A131	Sarilar	81630	57245	Basalt with Pyrite.	◎										
10	A143-1	Tunca	78192	54773	Pyrite ore.	◎			・		・					
11	A143-2	Tunca	78192	54773	Pyrite ore.	◎					・					
12	A143-3	Tunca	78192	54773	Pyrite ore.	◎			・		・					
13	A144-1	Tunca	78191	54773	Pyrite ore.	◎			・		・					
14	A144-2	Tunca	78191	54773	Pyrite ore.	◎			・		・					
15	A147-1	Tunca	78169	54773	Quartz vein with Spharelite, Galena, Barite, Pyrite.	◎			・		・					
16	A147-2	Tunca	78169	54773	Quartz vein with Spharelite, Galena, Barite, Pyrite.	○			○		△				・	
17	A149	Tunca	78191	54780	Clay with Pyrite.	◎			・		○					
18	A151	Tunca	78144	54766	Silicified Dacite with Pyrite.	◎										
19	A172-1	Tunca	72189	55461	Pyrite ore.	◎					・					
20	A172-2	Tunca	72189	55461	Pyrite ore.	◎					・					
21	A172-3	Tunca	72189	55461	Pyrite ore.	◎					・					
22	A173	Garimari	72266	55450	Silicified Dacite with Spharelite, Chalcopyrite.	△			◎	・	○					
23	A182-1	Tunca, west	77410	54850	Silicified Dacite with Pyrite.	◎			○		・					
24	A182-2	Tunca, west	77410	54850	Silicified Dacite with Pyrite.	◎			△		・					
25	A186	Tunca	78198	54787	Silicified Dacite with Pyrite.	◎			・							
26	A187	Tunca	78191	54773	Pyrite ore.	◎	・		・		・					
27	A187-1	Tunca	78191	54773	Pyrite ore.	◎	・		・		・					
28	A188	Tunca	78190	54770	Pyrite ore.	◎	・				・					
29	A188-1	Tunca	78190	54770	Pyrite ore.	◎	・		・		・					
30	A189	Tunca	78174	54761	Silicified Dacite with Pyrite.	◎			・							
31	AA001-1	Peronit	0697915	4582824	Massive sulfide ore.				◎	△	△				・	
32	AA001-2	Peronit	0697915	4582824	Massive sulfide ore.	◎			○					△	・	
33	AA002-1	Peronit	0697916	4582825	Massive sulfide ore.				◎	△	○					
34	AA002-2	Peronit	0697916	4582825	Massive sulfide ore.	・			◎	△	○					
35	AA006-1	Peronit	0697793	4582533	Corse grained Chalcopyrite, Pyrite ore.	◎	・				・					
36	AA006-2	Peronit	0697793	4582533	Corse grained Chalcopyrite, Pyrite ore.	◎	・				・					
37	AA011-1	Cerattepe	0732994	4560592	Massive sulfide ore.	◎	・		△	△	△	○	・			Boring core CTD-111. Depth:154.0-154,1m
38	AA011-2	Cerattepe	0732994	4560592	Massive sulfide ore.	◎	・		○	・	○	△	・		・	Boring core CTD-111. Depth:154.0-154,1m
39	AA013-1	Anayatak,Murgul	0716336	4570062	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	△	・				◎					
40	AA013-2	Anayatak,Murgul	0716336	4570062	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	○			△		◎					

Appendix 2 Microscopic Observation of Polished Section (2)

No.	Sample	Location	Coodination		Ore Type	Py	Mc	Hm	Sp	Gn	Cp	Bn	Dg	Cv	Tet	Remarks
			UTM-E	UTM-N												
41	AA014	Anayatak,Murgul	0716337	4570063	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	○										
42	AA015-1	Cakmakkaya,Murgul	0716338	4570064	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	◎			・		○					
43	AA015-2	Cakmakkaya,Murgul	0716338	4570064	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	○			・		◎					
44	B231	Tunca	77630	54380	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	◎										
45	B234	Tunca	77724	54024	Silicified Dacite with Spharelite, Chalcopyrite, Galena.	◎										
46	B270	Tunca ,southwest	76952	53792	Siliceous ore with Pyrite.	◎										
47	BA025	Tunca	78314	54759	Siliceous ore with Pyrite.	◎				・						
48	BA026	Tunca	78316	54760	Siliceous ore with Pyrite.	◎			・	・	・					
49	BA027	Tunca	78324	54767	Siliceous ore with Pyrite.	◎					・					
50	BA028	Tunca	78329	54768	Siliceous ore with Pyrite.	◎										
51	BA029	Tunca	78333	54769	Siliceous ore with Pyrite.	◎										
52	BA030	Tunca	78332	54772	Siliceous ore with Pyrite.	◎					・					
53	BA031	Tunca	78306	54746	Siliceous ore with Chalcopyrite, Pyrite.	◎			・		△					
54	BA032	Tunca	78304	54749	Siliceous ore with Chalcopyrite, Pyrite.	◎			・		・	・	・	・	・	
55	BA033	Tunca	78300	54751	Siliceous ore with Chalcopyrite, Pyrite.	◎			・		・					
56	BA034	Tunca	78295	54754	Siliceous ore with Pyrite.	◎			・		・					
57	BA035	Tunca	78290	54754	Siliceous ore with Pyrite.	◎			・		・					
58	BA036	Tunca	78289	54747	Siliceous ore with Pyrite.	◎			・		・					
59	BA037	Tunca	78289	54750	Siliceous ore with Pyrite.	◎				・						
60	BA038	Tunca	78282	54747	Siliceous ore with Pyrite.	◎			・		・			・		
61	BA040	Muskale	76485	53740	Siliceous ore with Pyrite.	◎										
62	BA043-1	Muskale	76485	53695	Siliceous ore with Pyrite.	◎			・		・					
63	BA043-2	Muskale	76485	53695	Siliceous ore with Pyrite.	◎			・		・					
64	BA044	Muskale	76485	53678	Siliceous ore with Pyrite.	◎			・							
65	BA045	Muskale	76485	53665	Siliceous ore with Pyrite.	◎			・							
66	BA046	Muskale	76485	53650	Siliceous ore with Pyrite.	◎			・							
67	BA047	Muskale	76485	53625	Siliceous ore with Pyrite.	◎										
68	BA049	Muskale	76480	53600	Siliceous ore with Pyrite.	◎										
69	BA050	Muskale	76488	53545	Siliceous ore with Pyrite.	◎			・							
70	BA051	Muskale	76500	53525	Siliceous ore with Pyrite.	◎					・					
71	BA08	Cerattepe	0732993	4560591	Massive Yellow Ore.	◎	・		・							
72	C025	Muskale	76478	53580	Silicified Dacite with Pyrite.	◎										
73	C116	Tunca	78389	54860	Silicified Dacite with Pyrite.	◎		・			△		△	○		
74	C117	Tunca	78385	54864	Silicified Dacite with Pyrite.	○										
75	C121	Tunca	78369	54837	Silicified Dacite with Pyrite.	◎										
76	C122	Tunca	78370	54832	Silicified Dacite with Pyrite.	◎		・								
77	C124-1	Tunca	78340	54808	Silicified Dacite with Pyrite.	◎			△		・					
78	C124-2	Tunca	78340	54808	Silicified Dacite with Pyrite.	◎	○		○		△					
79	C124-3	Tunca	78340	54808	Silicified Dacite with Pyrite.	◎			△		・					
80	C125	Tunca	78334	54050	Silicified Dacite with Pyrite.	◎			・		・					

Appendix 2 Microscopic Observation of Polished Section (3)

No.	Sample	Location	Coodination		Ore Type	Py	Mc	Hm	Sp	Gn	Cp	Bn	Dg	Cv	Tet	Remarks
			UTM-E	UTM-N												
81	C126	Tunca	78327	54802	Silicified Dacite with Pyrite.	◎										
82	C133	Muskale	76221	53143	Silicified Dacite with Pyrite.	◎			△							
83	C136	Muskale	76341	53351	Silicified Dacite with Pyrite.	◎										
84	C139	Muskale	76455	53410	Silicified Dacite with Barite, Pyrite.	◎	△		△					△		
85	C164	Tunca	78721	53661	Silicified Dacite with Pyrite.	◎										
86	D076	Yokusdibi	84140	58658	Argilized Dacite with Pyrite.	◎	△									
87	D131	Tunca	78164	54721	Pyrite ore. Clay.	◎	△									
88	D132	Tunca	78127	54714	Siliceous ore with Pyrite.	◎	△									
89	D133	Tunca	78074	54714	Siliceous ore with Pyrite.	◎	○									
90	D135	Tunca	77896	54700	Tuff breccia with Pyrite.	◎										
91	D136	Tunca	77869	54654	Argilized Tuff breccia with Pyrite.	◎										
92	D138-1	Tunca, south	78229	54582	Tuff breccia with Sphalerite, Pyrite, Barite.	◎			○	・	・			・	・	
93	D138-2	Tunca, south	78229	54582	Tuff breccia with Sphalerite, Pyrite, Barite.	◎			○		・			・	・	
94	D143	Muskale	76192	53107	Siliceous ore with Pyrite.	◎		・	△							
95	D145	Muskale	76123	53152	Siliceous ore with Pyrite.	◎		・	・							
96	D147	Muskale	76006	53219	Siliceous ore with Pyrite.	◎			・		・					
97	D148	Muskale	75974	53271	Siliceous ore with Pyrite.	◎			・		・					
98	D149	Muskale	75962	53300	Siliceous ore with Pyrite.	◎			△	・	・					
99	D150	Muskale	75900	53400	Siliceous ore with Pyrite.	◎			△		・					
100	D169	Isina	76475	52677	Argilized Dacite with Pyrite.	◎		・								

◎ : abundant, ○ : common, △ : few, ・ : rare

Py : Pyrite, Mc : Marcacite, Hm : Hematite, Sp : Sphalerite, Gn : Galena, Cp : Chalcopyrite, Bn : Bornite, Dg : Digenite, Cv : Covellite, Tet : Tetrahedrite

Appendix 3

Results of Ore Grade Assay

Appendix 3 Results of Ore Grade Assay (1)

No.	Sample	Location	Coodination		Ore Type	Au (ppm)	Ag (ppm)	Cu (%)	Pb (%)	Zn (%)	Ba (%)	S (%)	Ga (ppm)	Ge (ppm)	In (ppm)	As (ppm)	Remarks
			UTM-E	UTM-N													
1	A147	Tunca	78169	54773	Quartz vein with Spharelite, Galena, Barite, Pyrite.	0.566	37.10	0.905	2.180	13.300	12.200	20.950	18	124	1	1030	
2	A187	Tunca	78191	54773	Pyrite ore.	0.123	1.40	0.116	0.008	0.026	<0.001	48.000	5	<1	1	350	
3	A188	Tunca	78190	54770	Pyrite ore.	0.290	16.00	0.283	0.076	0.131	2.720	47.020	6	<1	1	558	
4	BA025	Tunca	78314	54759	Siliceous ore. Pyrite dissemination.	0.028	1.80	0.003	0.010	0.018	1.036	1.090	13	<1	1	66	
5	BA026	Tunca	78316	54760	Siliceous ore. Pyrite dissemination.	0.036	3.60	0.014	0.061	0.047	2.670	1.430	10	<1	1	91	
6	BA029	Tunca	78333	54769	Siliceous ore. Pyrite dissemination.	0.018	0.70	0.003	0.015	0.007	0.718	0.888	8	<1	1	27	
7	BA030	Tunca	78332	54772	Siliceous ore. Pyrite dissemination.	0.067	1.40	0.003	0.009	0.009	0.753	2.360	9	<1	1	72	
8	BA031	Tunca	78306	54746	Siliceous ore. Chalcopyrite,Pyrite dissemination	0.140	34.30	0.533	0.033	0.214	3.790	3.840	14	12	5	413	
9	BA032	Tunca	78304	54749	Siliceous ore. Chalcopyrite,Pyrite dissemination	0.193	9.50	0.407	0.092	0.082	1.170	2.310	10	<1	1	348	
10	BA033	Tunca	78300	54751	Siliceous ore. Pyrite dissemination.	0.134	4.40	0.090	0.032	0.005	0.141	2.900	13	<1	<1	179	
11	BA034	Tunca	78295	54754	Siliceous ore. Pyrite dissemination.	0.202	11.00	0.103	0.008	0.089	2.012	5.110	15	<1	4	400	
12	BA035	Tunca	78290	54754	Siliceous ore. Pyrite dissemination.	0.096	4.60	0.208	0.008	0.138	3.707	3.590	18	16	5	374	
13	BA037	Tunca	78289	54747	Siliceous ore. Pyrite dissemination.	0.275	10.40	0.048	0.011	0.114	1.750	3.720	13	<1	<1	214	
14	C117	Tunca	78385	54864	Siliceous ore. Pyrite dissemination.	0.010	32.00	0.009	0.008	0.012	0.004	2.570	11	7	<1	731	
15	C124	Tunca	78340	54808	Siliceous ore. Spharelite,Pyrite dissemination	0.033	2.20	0.050	0.005	0.763	0.004	2.990	14	<1	1	67	
16	C125	Tunca	79973	52555	Siliceous ore. Pyrite dissemination	0.099	1.10	0.020	0.010	0.079	0.788	4.050	14	<1	1	29	
17	C126	Tunca	78327	54802	Siliceous ore. Barite,Pyrite dissemination	0.024	0.75	0.054	0.011	0.011	13.400	2.180	12	<1	1	19	
18	D131	Tunca	78164	54721	Pyrite clay ore.	0.029	1.30	0.012	0.003	0.013	0.001	32.000	12	9	<1	14	
19	D132	Tunca	78127	54714	Siliceous ore. Pyrite dissemination.	0.044	0.85	0.003	0.004	0.002	0.006	8.520	13	23	1	20	
20	D135	Tunca	77896	54700	Silicifed Tuff breccia. Pyrite disssmination.	<0.001	1.60	0.002	0.003	0.007	0.165	1.580	9	<1	1	70	
21	D138	Tunca South	78229	54582	Silicifed Tuff. Spharelite Pyrite dissemination.	0.083	7.85	0.014	0.007	3.210	0.918	4.170	20	165	1	189	
22	A096	Muskale	76514	53510	Silicifed Dacite. Spharelite, Pyrite dissemination.	0.058	7.80	0.261	0.187	3.610	3.083	4.090	10	60	<1	252	
23	B269	Muskale	76974	53827	white argillized silicified Tuff. Pyrite dissemination.	0.070	2.20	0.021	0.011	0.228	0.009	5.920	30	<1	2	196	
24	BA040	Muskale	76485	53740	Siliceous ore. Pyrite dissemination.	0.101	4.10	0.011	0.010	0.009	0.001	21.300	23	<1	1	91	
25	BA043	Muskale	76485	53695	Siliceous ore. Pyrite dissemination.	0.076	1.90	0.010	0.070	0.173	0.002	9.690	15	<1	1	65	

Appendix 3 Results of Ore Grade Assay (2)

No.	Sample	Location	Coodination		Ore Type	Au (ppm)	Ag (ppm)	Cu (%)	Pb (%)	Zn (%)	Ba (%)	S (%)	Ga (ppm)	Ge (ppm)	In (ppm)	As (ppm)	Remarks
			UTM-E	UTM-N													
26	BA044	Muskale	76485	53678	Siliceous ore. Pyrite dissemination.	0.001	0.50	0.002	0.036	0.011	0.008	3.400	24	<1	<1	3	
27	BA045	Muskale	76485	53665	Siliceous ore. Pyrite dissemination.	0.018	2.40	0.005	0.013	0.303	0.005	7.060	17	<1	1	52	
28	BA046	Muskale	76485	53650	Siliceous ore. Pyrite dissemination.	0.014	3.35	0.153	0.011	0.595	0.001	24.200	16	26	<1	60	
29	BA047	Muskale	76485	53625	Siliceous ore. Pyrite dissemination.	0.012	1.20	0.004	0.016	0.012	0.007	4.070	17	22	<1	7	
30	BA051	Muskale	76500	53525	Siliceous ore. Pyrite dissemination.	0.032	21.20	0.045	0.004	0.008	1.106	6.110	14	7	1	58	
31	BA052	Muskale	76505	53505	Siliceous ore. Pyrite dissemination.	0.029	3.65	0.370	0.017	0.385	0.577	4.570	19	14	1	450	
32	C025	Muskale	76478	53580	Siliceous ore. Pyrite dissemination.	0.078	9.10	0.006	0.036	0.072	0.001	20.690	11	5	<1	210	
33	C139	Muskale	76455	53410	Siliceous ore. Barite.	0.080	5.30	0.151	0.005	0.113	0.003	4.880	19	<1	1	72	
34	C178	Muskale	76236	53911	Siliceous ore. Pyrite dissemination.	0.013	1.30	0.004	0.004	0.004	0.002	6.480	18	<1	<1	23	
35	A042	Saskini	83102	55437	Clay with gossan.	0.009	0.40	0.302	0.004	0.018	0.029	0.023	21	10	<1	9	
36	C071	Saskini	82918	55125	Malachite with gossan.	0.033	1.70	0.991	0.003	0.010	11.300	0.059	14	<1	<1	35	
37	C164	Beyazsu	78721	53661	Dacite. Pyrite dissemination.	0.002	0.25	0.010	0.002	0.253	0.016	1.730	19	10	1	3	
38	D076	Yokusdibi	84140	58658	Argillized Dacite. Pyrite dissemination.	0.051	4.50	0.007	0.024	0.019	0.094	2.340	22	2	<1	162	
39	A101	Garimani	72217	55451	Silicifed Dacite. Spharelite, Pyrite disssmination.	0.023	0.90	0.034	0.003	1.060	0.050	1.020	14	<1	<1	37	Outside of Tunca Area
40	A003	Pesansor	0691943	4566560	Silicifed Dacite. Pyrite dissemination.	0.044	0.80	0.010	0.003	0.004	0.001	45.600	2	<1	<1	4	〃
41	AA013	Anayatak,Murgul	0716336	4570062	Siliceous ore with Chalcopyrite, Pyrite.	0.160	4.80	0.929	0.008	0.014	0.005	3.790	11	<1	1	60	〃
42	AA015	Cakmakkaya,Murgul	0716177	4568803	Siliceous ore with Chalcopyrite, Pyrite.	3.710	12.70	4.040	0.055	0.258	0.003	10.700	5	<1	3	320	〃
43	AA011	Cerattepe	0732994	4560592	Boring core CTD-111. Depth:154.0-154.1m	1.060	82.00	5.500	1.020	3.970	2.440	29.400	34	<1	20	1240	〃
44	BA007	Cerattepe	0732992	4560590	Siliceous ore.	2.140	27.10	0.101	0.049	0.296	1.410	0.187	20	16	3	8020	〃
45	BA010	Cerattepe	0733001	4560599	Siliceous ore ,Qtz vein. W:3～4mm.	0.006	2.50	0.016	0.019	0.004	0.180	0.201	12	<1	1	219	〃
46	BA013	Cerattepe	0733004	4560602	Siliceous ore with Barite.	3.210	294.00	0.013	3.380	0.043	51.200	9.960	6	9	<1	367	〃
47	AA001	Peronit	0697915	4582824	Fine grained massive sulfide ore.	0.449	182.00	3.880	1.590	20.200	3.880	16.600	22	186	3	508	〃
48	AA002	Peronit	0697794	4582825	Fine grained massive sulfide ore.	0.396	122.00	3.520	1.490	12.500	0.894	10.000	19	66	6	289	〃
49	AA005	Peronit	0697792	4582532	Clay in deposit.	0.019	0.60	0.164	0.028	0.213	7.440	2.180	12	4	<1	187	〃
50	AA006	Peronit	0697793	4582533	Coarse grained chalcopyrite, Pyrite ore.	0.194	26.40	1.040	0.036	0.312	<0.001	35.100	8	2	1	42	〃

Appendix 4

Results of Chemical Analysis (Stream Sediment)

Appendix 4 Results of Chemical Analysis for Stream Sediments(1)

No.	Sample	Coodination		Altitude	River	pH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N		Width(m)		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
1	FS001	675468	4551679	505	2	7.9	<0.001	0.2	1.48	3	<10	70	<0.5	4	0.43	<0.5	17	20	32	4.59	10	<1	0.03	<10	0.77	1322	<1	0.01	18	200	8	0.01	<2	10	14	0.05	<10	<10	113	<10	65
2	FS002	675356	4552142	493	2	7.5	<0.001	0.3	2.58	<2	<10	60	<0.5	5	0.63	<0.5	24	60	40	6.44	20	<1	0.02	<10	1.37	1170	<1	0.01	43	160	9	0.01	<2	13	34	0.23	<10	10	284	<10	78
3	FS003	675646	4552342	383	2	7.7	<0.001	0.2	2.28	<2	<10	50	<0.5	4	0.59	<0.5	21	53	35	6.46	20	<1	0.02	<10	1.2	1086	<1	0.01	39	140	9	<0.01	<2	12	29	0.25	<10	10	302	10	80
4	FS004	675621	4552632	357	2	7.4	<0.001	0.2	1.71	<2	<10	50	<0.5	4	0.48	<0.5	18	24	39	4.67	10	<1	0.03	<10	0.67	1017	<1	0.02	16	380	9	<0.01	<2	6	38	0.09	<10	<10	173	<10	48
5	FS005	675863	4552522	349	2	7.5	<0.001	0.6	1.1	13	<10	140	<0.5	2	0.14	0.8	9	7	67	3.66	10	<1	0.03	<10	0.59	958	1	<0.01	5	150	34	0.17	<2	5	7	0.02	<10	<10	62	<10	177
6	FS006	676299	4552653	432	2	7.8	<0.001	0.4	1.32	6	<10	110	<0.5	2	0.14	<0.5	11	8	74	4.21	10	<1	0.03	<10	0.74	975	1	<0.01	5	150	27	0.16	<2	6	6	0.02	<10	<10	73	<10	147
7	FS007	677111	4551685	728	1.5	7.5	<0.001	0.3	2.04	<2	<10	60	<0.5	4	0.25	0.8	15	6	22	4.28	10	<1	0.03	10	0.88	1170	<1	0.01	9	260	10	<0.01	<2	9	18	0.02	<10	<10	68	<10	72
8	FS008	677620	4551618	905	1	7.2	<0.001	<0.2	1.46	<2	<10	50	<0.5	5	0.18	<0.5	6	5	9	2.39	10	<1	0.05	10	0.34	731	<1	0.01	4	290	15	0.01	<2	3	15	0.03	<10	<10	33	<10	61
9	FS009	677168	4551932	721	2	7.2	<0.001	<0.2	1.34	<2	<10	30	<0.5	3	0.19	<0.5	8	8	13	2.86	10	<1	0.03	10	0.55	516	<1	0.01	6	130	6	0.01	<2	4	10	0.03	<10	<10	47	<10	55
10	FS010	675933	4551688	402	2	7.4	<0.001	0.3	2.1	4	<10	50	<0.5	4	0.26	0.9	17	9	57	5.16	20	<1	0.04	<10	1.06	1136	1	0.01	9	240	15	0.01	<2	9	13	0.04	<10	<10	105	<10	148
11	FS011	675973	4553096	385	1	7.6	0.002	0.5	0.45	26	<10	180	<0.5	<2	0.07	1.1	2	3	107	2.63	<10	<1	0.03	10	0.17	750	3	<0.01	2	110	51	0.16	<2	2	5	<0.01	<10	<10	10	<10	301
12	FS012	675924	4553165	364	2	7	0.004	0.4	0.37	28	<10	110	<0.5	<2	0.03	1.2	1	2	85	2.34	<10	<1	0.03	10	0.12	238	2	<0.01	1	100	68	0.36	<2	1	3	<0.01	<10	<10	5	<10	356
13	FS013	675862	4553310	345	2	7.2	<0.001	0.5	0.49	27	<10	140	<0.5	<2	0.05	<0.5	2	4	103	3.14	<10	<1	0.03	<10	0.09	498	2	<0.01	2	100	85	0.17	<2	2	3	<0.01	<10	<10	11	<10	207
14	FS014	675532	4553833	438	2	8	<0.001	<0.2	0.41	10	<10	80	<0.5	<2	0.64	<0.5	3	4	10	1.82	10	<1	0.02	<10	0.31	1501	<1	<0.01	3	60	15	0.02	<2	4	20	0.01	<10	<10	11	<10	87
15	FS016	677314	4552744	712	2	7.9	<0.001	0.5	2.62	4	<10	100	<0.5	5	0.33	0.5	25	20	103	5.99	20	<1	0.04	<10	1.42	1758	<1	<0.01	14	250	15	0.1	<2	12	13	0.03	<10	<10	140	<10	132
16	FS017	675204	4552756	441	1	8.1	<0.001	0.2	1.79	2	<10	120	<0.5	<2	0.57	<0.5	18	37	25	4.29	10	<1	0.04	<10	0.77	1839	<1	0.01	27	180	9	<0.01	<2	11	20	0.07	<10	<10	96	<10	74
17	FS018	675200	4553193	369	3	7.9	<0.001	0.3	2.73	<2	<10	110	<0.5	4	0.52	<0.5	25	51	40	5.68	20	<1	0.04	<10	1.38	1397	<1	0.01	39	210	9	<0.01	<2	17	30	0.17	<10	<10	181	<10	78
18	FS019	675302	4553407	331	2	7.9	<0.001	0.2	2.33	2	<10	80	<0.5	2	0.53	<0.5	22	52	36	5.31	20	<1	0.03	<10	1.25	1326	<1	0.01	37	190	10	<0.01	<2	14	29	0.15	<10	10	172	<10	74
19	FS020	674791	4553806	252	3	8.1	<0.001	0.3	2.71	<2	<10	90	<0.5	8	0.9	<0.5	27	57	45	5.28	20	<1	0.03	<10	1.57	1541	<1	0.01	52	250	15	<0.01	<2	14	29	0.14	<10	<10	141	<10	69
20	FS021	672393	4556043	286	2	8.1	<0.001	<0.2	2.08	2	<10	60	<0.5	2	0.61	<0.5	15	16	20	3.97	10	<1	0.04	10	0.77	1108	<1	0.01	11	150	9	0.01	2	9	25	0.1	<10	<10	108	<10	91
21	FS022	672871	4555874	329	2	8	<0.001	<0.2	2.6	3	<10	50	<0.5	<2	0.9	<0.5	22	36	30	6.45	20	<1	0.04	<10	1.08	1756	<1	0.01	22	170	10	0.01	2	12	32	0.23	<10	10	220	<10	114
22	FS023	672993	4555759	329	2	7.2	0.002	0.3	2.52	2	<10	70	<0.5	8	0.8	0.5	23	47	41	6.28	20	<1	0.06	<10	1.24	1476	<1	0.02	36	190	13	0.01	<2	12	30	0.15	<10	10	160	<10	88
23	FS024	673191	4557355	421	2	7.3	0.001	0.2	1.56	2	<10	90	0.5	<2	0.27	<0.5	8	8	14	4.54	10	<1	0.06	10	0.46	1208	<1	0.01	5	180	10	<0.01	<2	9	21	0.14	<10	<10	62	<10	173
24	FS025	673514	4556944	578	2	7.2	0.001	0.2	1.59	2	<10	130	0.5	2	0.23	<0.5	7	8	11	2.9	10	<1	0.06	10	0.24	905	<1	<0.01	6	180	13	0.01	<2	4	24	0.04	<10	<10	33	<10	109
25	FS026	673653	4557052	572	3	7.2	0.001	<0.2	1.66	4	<10	140	0.7	<2	0.24	<0.5	6	6	11	3.29	10	<1	0.05	10	0.26	1101	<1	<0.01	5	190	13	0.01	<2	5	29	0.08	<10	<10	36	<10	159
26	FS028	673629	4558144	497	4	7.3	<0.001	<0.2	1.58	<2	<10	80	<0.5	<2	0.37	<0.5	8	10	12	4.5	10	<1	0.06	10	0.37	1156	<1	0.01	4	230	8	<0.01	2	9	30	0.16	<10	<10	138	<10	128
27	FS029	673888	4555213	396	2	7.5	0.008	0.3	3.28	<2	10	20	<0.5	8	1.59	1.2	37	98	71	9.64	20	<1	0.06	<10	1.97	1311	<1	0.01	69	160	6	<0.01	4	27	40	0.29	<10	10	233	<10	66
28	FS030	674150	4556025	468	1	7.7	0.001	0.3	2.99	2	10	30	<0.5	5	1.21	1	31	70	59	8.58	20	<1	0.07	<10	1.74	1267	<1	0.02	58	150	5	0.01	<2	21	35	0.25	<10	10	226	<10	64
29	FS031	675291	4555991	517	2	7.2	0.001	0.4	3.06	2	<10	40	<0.5	8	0.82	<0.5	27	52	36	5.93	20	<1	0.04	<10	1.8	1196	<1	0.02	41	230	6	0.01	<2	17	44	0.18	<10	10	175	<10	73
30	FS032	675173	4555752	490	3	7.9	0.001	0.2	1.8	<2	<10	50	<0.5	<2	0.43	0.6	17	33	25	6.33	10	<1	0.06	<10	0.63	1068	<1	0.02	22	180	8	0.01	<2	11	18	0.1	<10	<10	99	<10	77
31	FS033	676158	4556604	451	3	7.2	0.002	0.2	2.84	<2	<10	40	<0.5	3	0.55	<0.5	24	49	38	5.04	20	<1	0.05	10	1.63	1316	<1	0.01	34	180	10	<0.01	<2	15	44	0.13	<10	<10	145	<10	69
32	FS034	676180	4556601	508	3	7.7	0.001	<0.2	1.49	<2	<10	60	<0.5	<2	0.28	<0.5	7	11	8	3.06	10	<1	0.04	10	0.47	1098	<1	0.01	16	210	5	<0.01	<2	7	16	0.06	<10	<10	29	<10	90
33	FS035	676269	4556247	461	1	7.9	0.001	0.3	3.39	<2	<10	20	<0.5	5	0.83	0.8	39	130	54	7.4	20	<1	0.02	<10	2.11	1404	<1	0.01	74	200	5	0.06	<2	19	56	0.23	<10	10	288	<10	70
34	FS036	677110	4557195	600	4	7.6	0.001	0.2	2.39	2	<10	80	<0.5	6	0.59	<0.5	13	16	22	4.73	10	<1	0.05	10	0.57	1108	<1	0.01	6	210	9	<0.01	<2	10	35	0.15	<10	<10	163	<10	91
35	FS037	677077	4557305	620	2	7.6	0.001	0.2	1.87	2	<10	100	<0.5	5	0.42	<0.5	12	13	19	4.07	10	<1	0.04	10	0.49	909	<1	0.01	6	220	9	0.01	<2	8	22	0.08	<10	<10	120	<10	78
36	FS038	677052	4557308	598	1	7.5	0.001	0.2	2.54	<2	<10	80	<0.5	3	0.63	<0.5	14	16	23	5.07	20	<1	0.05	10	0.56	1172	<1	0.01	6	230	10	<0.01	<2	10	39	0.18	<10	10	187	<10	94
37	FS039	677878	4557065	719	1	7.7	0.002	0.3	2.37	2	<10	40	<0.5	3	0.64	<0.5	16	26	32	4.89	20	<1	0.06	<10	1.15	1026	<1	0.01	14	170	6	<0.01	2	12	58	0.16	<10	<10	144	<10	86
38	FS040	678237	4557036	756	1.5	8.1	0.002	<0.2	2.91	3	<10	70	<0.5	3	0.28	<0.5	13	20	23	4.26	20	<1	0.06	10	0.52	1235	<1	0.01	14	180	15	0.01	<2	7	18	0.09	<10	<10	91	<10	93
39	FS041	678034	4557364	784	1.5	7.7	0.001	0.3	2.5	<2	<10	60	<0.5	2	0.63	<0.5	14	17	24	3.68	20	<1	0.05	10	0.89	956	1	0.01	9	240	8	0.01	<2	9	44	0.09	<10	<10	87	<10	74
40	FS042	677138	4557658	796	2	7.7	0.001	0.3	2.16	3	<10	130	<0.5	2	0.39	<0.5	17	20	24	5.45	10	<1	0.04	<10	0.59	1141	<1	0.01	9	310	9	0.01	<2	11	24	0.11	<10	<10	183	<10	92
41	FS043	678178	4557320	792	2	7.6	0.001	<0.2	2.7	<2	<10	40	<0.5	<2	0.81	<0.5	14	15	30	4.23	20	<1	0.05	10	0.77	940	1	0.01	11	240	13	0.01	<2	9	74	0.13	<10	10	143	<10	84
42	FS044	677376	4556648	525	2	6.9	0.001	0.3	2.87	3	<10	50	<0.5	5	0.8	<0.5	19	29	38	4.35	20	<1	0.05	<10	1.27	1097	<1	0.01	19	230	9	<0.01	<2	12	50	0.13	<10	10	113	<10	74
43	FS045	677368	4556682	534	2	6.7	0.002	0.2	2.35	<2	<10	40	<0.5	<2	0.67	<0.5	18	33	35	4.86	20	<1	0.05	<10	1.32	990	<1	0.02	20	170	7	<0.01	<2	12	42	0.15	<10	<10	146	<10	79
44	FS046	677096	4556603	489	1	6.7	0.001	0.3	2.38	<2	<10	60	<0.5	4	0.66	<0.5	16	23	31	4.03	10	<1	0.03	10	0.88	816	<1	0.02	26	410	9	0.01	<2	8	40	0.07	<10	<10	121	<10	59
45	FS047	676956	4556306	491	1	6.8	0.001	0.4	3.19	<2	<10	20	<0.5	3	0.89	<0.5	34	64	60	5.52	20	<1	0.06	<10	2	1185	<1	0.03	69	100	8	<0.01	<2	18	59	0.2	<10	10	126	10	59
46	FS048	678621	4555790	538	2	7.9	0.002	0.3	2.63	<2	<10	30	<0.5	10	0.74	0.8	38	70	59	8.15	20	<1	0.07	<10	1.55	1443	<1	0.02	58	130	9	<0.01	2	20	38	0.18	<10	10	165	10	67
47	FS049	678714	4556049	584	2	7.9	0.001	0.4	3.43	<2	<10	20	<0.5	6	0.87	0.6	42	86	49	7.93	20	<1	0.04	<10	2.37	1645	<1	0.01	70	150	4	<0.01	3	20	47	0.22	<10	10	220	<10	78
48	FS050	678599	4555149	443	1.5	7.9	0.003	0.2	3.25	<2	<10	50	<0.5	6	1.1	0.9	38	96	54	7.3	20	<1	0.08	10	1.31	1829	<1	0.01	66	500	11	0.01	<2	19	44	0.15	<10	10	202	<10	72
49	FS051	679767	4556710	605	2	7.2	0.001	0.2	3.22	<2	<10	20	<0.5	2	1.24	<0.5	12	20	20	3.28	20	<1	0.04	10	0.8	913	<1	0.01	15	130	8	<0.01	<2	9	50	0.08	<10	10	80	<10	78
50	FS052	679744	4556787	578	4	7.4	0.003	0.3	2.92	3	<10	40	<0.5	3	0.93	<0.5	17	33	28	4.16	20	<1	0.04	<10	1.15	1090	<1	0.02	37	260	10	0.01	<2	8	65	0.14	<10	10	130	<10	67

Appendix 4 Results of Chemical Analysis for Stream Sediments(2)

No.	Sample	Coodination		Altitude	River	pH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N		Width(m)		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
51	FS053	679546	4556735	633	5	7.5	0.001	0.2	2.65	<2	<10	40	<0.5	4	0.81	<0.5	15	24	24	4.11	20	<1	0.04	<10	1.03	900	1	0.02	25	240	9	<0.01	2	9	48	0.14	<10	<10	118	<10	73
52	FS054	679494	4556828	600	3	7.7	0.001	0.2	3.21	2	<10	30	<0.5	2	0.77	<0.5	24	53	37	4.89	20	<1	0.04	<10	1.6	1190	<1	0.01	47	280	9	0.01	<2	14	49	0.15	<10	<10	127	<10	80
53	FS055	679515	4556804	647	3	7.7	0.001	0.2	2.56	<2	<10	40	<0.5	3	0.82	<0.5	13	15	22	3.94	20	<1	0.04	10	0.9	884	<1	0.02	19	240	7	<0.01	<2	8	51	0.13	<10	10	120	<10	77
54	FS056	680183	4555781	529	3	7.8	0.001	0.2	3.38	<2	<10	30	<0.5	8	0.82	1.1	38	98	45	8.63	20	<1	0.03	<10	1.67	1487	<1	0.01	71	190	9	0.01	<2	18	36	0.22	<10	10	249	<10	82
55	FS057	679700	4556206	528	2	8.3	0.001	0.4	3.27	<2	<10	10	<0.5	<2	1.08	0.6	30	66	43	5.97	20	<1	0.02	<10	1.89	1242	<1	0.03	59	210	6	<0.01	2	17	61	0.24	<10	10	189	<10	66
56	FS058	680362	4557169	768	2	8.3	0.001	0.2	1.7	3	<10	50	<0.5	2	0.44	<0.5	11	13	22	3.43	10	<1	0.04	10	0.63	992	<1	0.01	11	230	9	0.01	<2	6	24	0.05	<10	<10	79	<10	62
57	FS059	680530	4556879	702	2	8.5	0.007	<0.2	3.55	5	<10	60	<0.5	<2	0.98	0.7	27	53	43	4.9	20	<1	0.05	<10	1.6	1305	<1	0.06	60	410	5	<0.01	<2	11	47	0.13	<10	<10	138	20	98
58	FS060	680652	4556657	658	2	8.3	0.005	<0.2	2.74	14	<10	50	0.5	<2	0.48	<0.5	24	62	52	4.87	10	<1	0.03	<10	1.17	1120	1	0.01	41	260	12	0.01	3	12	29	0.08	<10	<10	147	20	88
59	FS061	680845	4556381	578	5	8.2	0.001	<0.2	1.64	9	<10	50	0.5	<2	0.46	<0.5	11	14	24	4.42	10	<1	0.04	<10	0.63	936	<1	0.01	12	260	9	<0.01	5	7	16	0.09	<10	<10	131	20	90
60	FS062	680691	4556274	569	3	8.4	0.001	<0.2	2.49	8	<10	40	0.5	<2	0.63	1.1	24	64	49	6.69	10	<1	0.03	<10	1.25	1070	<1	0.02	45	190	11	<0.01	4	13	23	0.19	<10	<10	274	20	104
61	FS063	684638	4558217	851	1	8.2	<0.001	<0.2	0.64	3	<10	20	<0.5	<2	0.14	<0.5	3	2	4	1.71	<10	<1	0.04	<10	0.11	280	<1	<0.01	1	70	6	<0.01	3	2	3	0.01	<10	<10	13	10	38
62	FS064	684400	4557919	862	3	7.5	0.001	<0.2	1.07	3	<10	30	0.5	<2	0.46	<0.5	7	6	11	2.4	10	<1	0.04	10	0.39	644	<1	0.01	6	190	<2	<0.01	<2	5	12	0.02	<10	<10	31	10	66
63	FS065	684290	4557945	857	2	7.6	0.001	<0.2	2.94	3	<10	30	<0.5	<2	0.69	<0.5	21	54	25	3.5	10	<1	0.03	<10	1.44	768	<1	0.02	61	290	<2	<0.01	5	9	43	0.07	<10	<10	78	20	71
64	FS066	684062	4558066	907	1.5	7.5	0.001	<0.2	3.96	17	<10	40	0.5	<2	0.69	0.7	25	42	53	5.6	20	<1	0.03	<10	1.62	839	<1	0.03	46	230	10	<0.01	6	11	63	0.19	<10	<10	207	20	91
65	FS067	683950	4558126	923	3	7.4	0.001	<0.2	2.61	7	<10	70	0.6	<2	0.55	<0.5	14	14	34	4.57	10	<1	0.04	<10	0.8	983	<1	0.01	10	230	5	<0.01	4	11	20	0.12	<10	<10	140	10	93
66	FS068	684021	4558391	940	2	7.8	0.006	<0.2	2.86	8	<10	50	<0.5	4	0.6	0.6	10	5	45	3.42	10	<1	0.03	<10	0.6	743	<1	0.01	4	90	18	<0.01	4	8	32	0.07	<10	<10	87	10	291
67	FS069	684050	4558688	953	1	7.5	0.002	<0.2	1.18	5	<10	30	<0.5	<2	0.64	<0.5	3	1	5	1.59	10	<1	0.03	10	0.16	714	<1	<0.01	2	110	3	<0.01	4	4	20	<0.01	<10	<10	7	10	80
68	FS070	683869	4559075	978	1	7.6	0.001	<0.2	2.5	8	<10	140	<0.5	<2	0.09	<0.5	7	8	16	2.52	10	1	0.04	<10	0.31	555	<1	<0.01	7	70	11	<0.01	4	5	7	0.02	<10	<10	54	10	55
69	FS071	683688	4559041	978	1	7.5	0.001	<0.2	1.31	11	<10	50	<0.5	<2	0.06	<0.5	6	8	13	1.97	10	<1	0.04	<10	0.21	403	1	<0.01	6	90	9	<0.01	5	3	<1	0.01	<10	<10	38	10	33
70	FS072	683451	4558978	969	2	7.6	0.001	<0.2	1.92	10	<10	100	<0.5	<2	0.23	<0.5	7	7	15	2.4	10	<1	0.05	10	0.28	349	<1	<0.01	8	140	10	<0.01	4	3	8	0.03	<10	<10	42	10	56
71	FS074	683349	4558903	976	2	7.3	0.002	<0.2	2.35	10	<10	130	0.5	<2	0.3	<0.5	9	8	19	3.01	10	<1	0.06	10	0.41	818	<1	<0.01	9	220	14	0.01	5	6	27	0.04	<10	<10	46	10	72
72	FS075	682999	4558687	981	2	7.8	0.002	<0.2	3.05	12	<10	120	0.7	<2	0.43	0.5	19	21	64	5.59	20	<1	0.05	10	0.7	1510	<1	0.01	15	250	8	<0.01	6	15	24	0.1	<10	<10	189	20	100
73	FS076	682595	4558754	977	7	7.5	0.001	<0.2	3.41	6	<10	90	0.7	<2	0.33	<0.5	19	68	31	7.47	20	1	0.04	<10	0.96	1115	<1	0.01	19	240	14	<0.01	4	21	35	0.17	<10	<10	310	20	118
74	FS077	680975	4555345	617	5	8.2	0.001	<0.2	2.14	<2	<10	50	0.5	<2	0.38	<0.5	16	33	30	3.57	10	<1	0.03	<10	0.92	909	1	0.01	26	150	5	<0.01	<2	9	16	0.04	<10	<10	70	10	67
75	FS078	680096	4554896	629	1	8.3	0.001	<0.2	2.15	12	<10	60	0.5	<2	0.38	<0.5	15	53	31	3.16	10	<1	0.04	<10	0.97	921	<1	0.01	39	120	8	<0.01	4	8	17	0.05	<10	<10	64	10	72
76	FS080	679986	4554884	632	1	8	0.001	<0.2	2.95	5	<10	70	0.6	<2	0.24	<0.5	21	72	28	4.22	10	<1	0.03	<10	1.17	935	<1	0.01	46	90	12	<0.01	5	10	15	0.1	<10	<10	123	10	64
77	FS081	679869	4554831	652	2	8.4	<0.001	<0.2	2.59	10	<10	70	0.6	<2	0.44	<0.5	23	76	36	4.47	10	<1	0.04	10	1.12	1285	<1	0.01	47	130	9	<0.01	4	12	21	0.12	<10	<10	124	10	68
78	FS082	679684	4554993	614	0.5	8.4	0.001	<0.2	3.53	9	<10	40	0.5	<2	0.79	<0.5	42	139	65	7.15	20	<1	0.04	<10	1.57	1660	<1	0.01	81	150	3	<0.01	2	20	28	0.16	<10	<10	202	20	101
79	FS083	679944	4555479	474	2	8.3	0.001	<0.2	2.2	6	<10	40	<0.5	<2	0.5	<0.5	17	53	31	3.71	10	<1	0.03	<10	1.1	836	<1	0.01	43	110	7	<0.01	7	9	17	0.1	<10	<10	91	10	64
80	FS084	679823	4555345	490	1	8.4	0.001	<0.2	2.6	<2	<10	50	0.5	<2	0.66	<0.5	23	64	39	4.63	10	<1	0.05	<10	1.21	1140	<1	0.01	47	300	6	<0.01	6	13	33	0.13	<10	<10	128	10	76
81	FS085	679687	4555388	470	3	8.6	0.002	<0.2	2.12	7	<10	30	<0.5	<2	0.98	<0.5	19	41	34	3.74	10	<1	0.03	<10	1.25	1000	<1	0.02	48	150	5	<0.01	6	9	27	0.1	<10	<10	80	10	68
82	FS086	679525	4555219	473	2	8.3	0.001	<0.2	2.89	5	<10	40	0.5	<2	0.71	<0.5	29	76	43	5.23	10	<1	0.03	<10	1.5	1300	<1	0.01	64	80	10	<0.01	<2	14	28	0.13	<10	<10	136	20	76
83	FS087	682958	4555119	800	1	8.3	0.003	<0.2	2.11	14	<10	60	0.6	<2	0.35	<0.5	18	12	44	6.45	10	2	0.03	<10	0.8	1450	<1	0.01	18	160	27	0.02	4	12	18	0.08	<10	<10	176	10	90
84	FS088	683194	4555539	900	1	8.6	0.001	<0.2	1.97	4	<10	30	0.5	<2	0.44	<0.5	17	5	11	5.77	10	<1	0.03	<10	0.85	1350	<1	0.01	7	400	16	<0.01	<2	11	11	0.07	<10	<10	166	10	76
85	FS089	683325	4554352	929	1	8.2	0.001	<0.2	1.85	8	<10	40	0.5	<2	0.37	<0.5	14	5	20	3.89	10	<1	0.04	<10	0.7	986	<1	0.01	7	150	7	<0.01	<2	9	46	0.05	<10	<10	103	10	66
86	FS090	682622	4555529	590	2	8.2	0.002	<0.2	2.88	7	<10	40	0.5	<2	0.78	0.6	35	14	120	8.14	20	<1	0.03	<10	1.19	1845	<1	0.01	19	150	21	<0.01	4	30	9	0.09	<10	<10	239	20	115
87	FS091	682378	4555478	575	5	8.2	0.003	<0.2	2.3	3	<10	40	0.5	<2	0.33	<0.5	17	16	39	4.04	10	<1	0.03	<10	1.17	688	<1	0.01	10	170	6	<0.01	4	8	16	0.08	<10	<10	94	10	73
88	FS092	681697	4554967	759	3	8.1	0.002	<0.2	1.05	5	<10	40	<0.5	<2	0.29	<0.5	6	7	13	2.57	10	1	0.04	<10	0.27	949	<1	0.01	9	180	10	<0.01	<2	3	10	0.03	<10	<10	35	10	61
89	FS093	681662	4554908	759	3	8.3	0.002	<0.2	1.66	3	<10	50	<0.5	<2	0.34	<0.5	11	14	26	2.72	10	<1	0.03	<10	0.72	843	<1	0.01	12	190	9	<0.01	<2	5	18	0.03	<10	<10	44	10	70
90	FS094	682549	4558803	984	1	7.5	0.003	<0.2	3.24	7	<10	60	0.8	<2	0.21	<0.5	18	45	33	7.57	20	<1	0.03	<10	0.64	1065	<1	0.01	14	260	12	<0.01	<2	24	21	0.21	<10	<10	303	20	84
91	FS096	682029	4559012	922	1	7.8	0.008	<0.2	2.37	4	<10	80	0.6	<2	0.51	<0.5	12	20	36	3.88	10	1	0.04	<10	0.57	943	<1	0.01	9	230	14	<0.01	4	9	37	0.11	<10	<10	126	10	94
92	FS097	681834	4558806	940	3	8.3	0.002	<0.2	2.66	16	<10	90	1.2	<2	0.47	<0.5	14	38	32	8.82	20	<1	0.04	<10	0.72	1435	<1	0.01	14	180	20	<0.01	<2	15	43	0.25	<10	<10	392	20	187
93	FS098	681551	4558550	952	2	7.9	0.001	<0.2	4.47	13	<10	110	0.9	<2	0.32	<0.5	21	60	67	6.7	20	<1	0.04	<10	0.91	1095	<1	0.01	27	330	14	<0.01	6	20	28	0.3	<10	<10	266	20	115
94	FS100	681433	4558441	970	1	7.9	0.003	<0.2	3.89	2	<10	160	0.6	<2	1.18	<0.5	17	33	38	4.6	20	<1	0.07	10	1.17	1025	<1	0.08	35	420	9	0.01	<2	11	60	0.16	<10	<10	147	<10	74
95	FS101	680909	4558430	972	2	7.9	0.002	<0.2	4.74	<2	<10	50	0.7	<2	0.58	<0.5	26	50	30	5.75	20	<1	0.04	10	1.75	924	<1	0.02	63	320	6	<0.01	<2	21	80	0.22	<10	<10	204	<10	74
96	FS102	680377	4558356	971	1	7.9	0.003	<0.2	3.14	9	<10	100	0.8	<2	0.74	<0.5	14	8	25	4.5	20	<1	0.07	10	0.79	1190	<1	0.01	9	130	15	<0.01	6	9	44	0.17	<10	<10	128	10	130
97	FS103	681903	4559421	770	1	7.5	0.001	<0.2	1.79	2	<10	110	0.6	<2	0.42	<0.5	13	12	29	3.42	10	<1	0.04	<10	0.5	840	<1	0.02	10	160	7	<0.01	5	8	15	0.06	<10	<10	100	10	69
98	FS104	681682	4559278	748	2	7.8	0.002	<0.2	2.11	6	<10	70	0.6	<2	0.33	<0.5	14	29	33	4.48	10	<1	0.05	10	0.68	871	<1	0.01	15	170	11	<0.01	7	10	17	0.14	<10	<10	152	10	93
99	FS105	681486	4559162	715	5	7.4	0.002	<0.2	2.75	11	<10	80	1	<2	0.48	<0.5	16	34	33	7.8	20	<1	0.04	<10	0.86	1305	<1	0.01	17	180	12	<0.01	<2	15	38	0.23	<10	<10	320	20	158
100	FS106	681183	4559253	642	2	7.6	0.002	<0.2	3.27	11	<10	80	0.6	<2	0.76	<0.5	20	38	40	4.75	10	<1	0.04	<10	1.29	749	<1	0.04	50	280	12	<0.01	<2	10	50	0.18	<10	<10	166	10	87

Appendix 4 Results of Chemical Analysis for Stream Sediments(3)

No.	Sample	Coodination		Altitude	River	pH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N		Width(m)		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
101	FS107	681119	4559321	621	2	7.8	0.001	<0.2	2.43	8	<10	70	0.7	<2	0.61	<0.5	16	22	29	4.29	10	<1	0.04	10	0.9	846	<1	0.02	30	240	9	<0.01	<2	10	34	0.16	<10	<10	151	10	83
102	FS108	680906	4559743	558	5	7.8	<0.001	<0.2	2.61	5	<10	50	0.6	<2	0.51	<0.5	19	10	24	5.87	10	<1	0.06	<10	1	1080	<1	0.01	13	150	11	<0.01	4	13	34	0.15	<10	<10	122	10	105
103	FS109	680951	4559737	539	4	7.7	0.001	<0.2	2.63	8	<10	50	0.6	<2	0.81	<0.5	18	40	31	5.3	10	<1	0.04	<10	1.16	867	<1	0.03	39	200	9	<0.01	3	11	40	0.2	<10	<10	204	20	100
104	FS110	681193	4559660	583	8	7.9	0.001	<0.2	2.79	<2	<10	40	0.5	<2	0.82	<0.5	21	42	33	4.31	10	<1	0.04	<10	1.36	826	<1	0.03	51	210	2	<0.01	3	11	54	0.15	<10	<10	122	10	78
105	FS111	680058	4558183	1005	1	7.9	0.001	<0.2	2.72	2	<10	110	0.9	<2	0.31	0.6	16	13	25	5.96	10	<1	0.03	<10	0.81	1080	<1	0.01	13	170	17	<0.01	5	11	16	0.16	<10	<10	227	10	128
106	FS112	679773	4558239	988	1	7.6	0.001	<0.2	2.02	9	<10	50	1.1	<2	0.5	0.5	15	19	25	9.08	10	<1	0.02	<10	0.87	1000	<1	0.01	11	50	28	<0.01	<2	10	12	0.19	<10	<10	386	10	127
107	FS113	679498	4558256	965	2	7.9	0.001	<0.2	2.96	5	<10	70	0.7	<2	0.58	<0.5	20	43	22	5.66	10	<1	0.06	<10	1.08	658	<1	0.01	40	240	5	<0.01	3	15	53	0.16	<10	<10	246	10	69
108	FS114	679481	4558290	959	1	7.7	0.001	<0.2	2.76	6	<10	80	0.7	<2	0.34	<0.5	15	12	33	4.3	10	<1	0.04	10	0.82	1040	<1	0.01	15	110	7	<0.01	8	11	57	0.11	<10	<10	122	10	85
109	FS115	679153	4558448	934	3	7.9	0.001	<0.2	2.62	8	<10	100	0.7	<2	0.36	<0.5	13	7	21	4.35	10	<1	0.07	10	0.85	931	<1	0.02	7	140	8	<0.01	3	11	89	0.15	<10	<10	122	10	98
110	FS116	679173	4558878	908	1	7.5	<0.001	<0.2	2.4	6	<10	90	0.7	<2	0.23	<0.5	12	6	17	5.14	20	<1	0.05	<10	0.56	1795	<1	0.01	5	230	15	<0.01	3	12	19	0.14	<10	<10	98	20	116
111	FS117	679092	4558983	893	2	7.5	0.003	<0.2	2.79	12	<10	80	1	<2	0.21	0.5	18	7	27	8.82	20	<1	0.04	<10	0.82	1280	<1	0.01	5	250	20	<0.01	5	22	36	0.23	<10	<10	274	20	165
112	FS118	679016	4559174	889	1	7.9	0.001	<0.2	3.03	5	<10	80	1.2	<2	0.07	0.7	22	7	32	10.91	20	<1	0.04	<10	0.65	1585	<1	0.01	5	290	23	<0.01	4	27	<1	0.31	<10	<10	341	20	176
113	FS119	675235	4557773	770	1	7.5	<0.001	<0.2	0.93	4	<10	70	0.6	<2	0.21	<0.5	6	3	8	2.87	10	<1	0.05	10	0.15	1330	<1	0.01	3	280	11	<0.01	<2	7	4	0.04	<10	<10	35	10	99
114	FS121	675538	4557311	817	1	7.4	<0.001	<0.2	1.24	3	<10	60	0.8	<2	0.16	<0.5	3	1	1	3.05	10	<1	0.04	<10	0.26	1020	<1	0.01	<1	130	9	<0.01	<2	8	10	0.13	<10	<10	14	10	142
115	FS122	675257	4556603	681	2	7.4	<0.001	<0.2	1.2	<2	<10	90	0.6	<2	0.19	<0.5	5	3	7	2.95	10	<1	0.04	<10	0.2	976	<1	0.01	3	200	10	<0.01	5	7	9	0.04	<10	<10	26	10	85
116	FS123	675140	4556497	694	2	7.4	0.001	<0.2	2.91	11	10	60	0.6	<2	0.98	0.6	25	57	46	7.32	10	<1	0.11	<10	0.99	1160	<1	0.14	47	20	23	<0.01	<2	16	27	0.23	<10	<10	155	20	89
117	FS124	674151	4555911	482	2	7.6	0.001	<0.2	1.63	2	<10	80	<0.5	<2	0.29	<0.5	6	5	10	1.86	10	1	0.04	<10	0.35	560	<1	0.01	4	60	5	<0.01	2	4	27	0.03	<10	<10	38	10	44
118	FS125	674006	4556108	614	1	7.6	0.001	<0.2	1.7	5	<10	90	0.5	<2	0.43	<0.5	15	37	50	3.67	10	<1	0.05	<10	0.75	1160	<1	0.01	39	150	3	<0.01	4	7	12	0.03	<10	<10	75	10	89
119	FS126	674576	4555254	541	1	7.8	0.001	<0.2	2.36	11	10	70	0.7	<2	0.23	0.7	32	69	56	8.53	10	<1	0.07	<10	0.56	1300	<1	0.01	31	20	12	<0.01	<2	26	24	0.17	<10	<10	169	20	105
120	FS128	682171	4555582	574	1	7.5	0.002	<0.2	1.4	6	<10	60	0.5	<2	0.27	<0.5	12	14	25	3.17	10	<1	0.03	10	0.36	1490	<1	<0.01	17	100	16	<0.01	<2	6	12	0.04	<10	<10	57	10	62
121	FS130	681997	4555491	619	1	7.9	0.004	<0.2	2.19	4	<10	60	0.5	<2	0.46	<0.5	16	6	50	4.35	20	<1	0.04	<10	0.66	2160	<1	0.01	13	110	18	<0.01	<2	10	17	0.07	<10	<10	91	10	83
122	FS131	681755	4555642	555	5	7.6	0.003	<0.2	2.84	7	<10	70	0.6	<2	0.56	<0.5	25	84	51	5.01	20	<1	0.03	<10	1.33	1710	<1	0.01	54	130	17	<0.01	<2	14	30	0.13	<10	<10	134	10	77
123	FS132	681736	4555209	708	3	7.9	0.001	<0.2	1.53	5	<10	40	<0.5	<2	0.3	<0.5	9	13	19	2.64	10	1	0.03	<10	0.64	756	<1	0.01	11	130	7	<0.01	3	5	14	0.04	<10	<10	43	10	66
124	FS133	674877	4552908	470	3	7.5	0.005	<0.2	2.77	11	<10	110	0.7	<2	0.48	<0.5	25	53	48	7.59	20	<1	0.03	<10	1.3	1600	<1	0.01	41	60	18	<0.01	6	21	16	0.26	<10	<10	327	10	127
125	FS134	674214	4552848	609	3	7.8	0.001	<0.2	1.71	12	<10	90	0.5	<2	0.29	0.7	26	104	33	8.21	10	<1	0.03	<10	0.99	1195	<1	0.01	47	30	27	<0.01	<2	13	5	0.12	<10	<10	183	20	74
126	FS135	674013	4552642	621	1.5	7.8	0.002	<0.2	2.3	7	<10	110	0.5	<2	0.94	<0.5	24	39	41	4.1	10	<1	0.04	<10	1.27	1430	<1	0.01	56	150	10	<0.01	<2	14	22	0.08	<10	<10	99	10	67
127	FS136	673977	4552727	617	1.5	8	0.001	<0.2	3.26	5	<10	50	0.5	<2	0.83	0.6	32	94	54	6.57	20	<1	0.03	<10	1.99	1435	<1	0.01	62	60	12	<0.01	2	18	10	0.16	<10	<10	201	20	91
128	FS137	673890	4553399	651	1	7.9	0.001	<0.2	3.31	4	<10	50	0.7	<2	0.59	<0.5	37	102	51	7.06	20	<1	0.04	<10	1.81	1995	<1	0.01	81	40	16	<0.01	3	18	12	0.23	<10	<10	232	20	95
129	FS138	673984	4553227	601	1	7.4	0.001	<0.2	3.31	21	10	50	0.6	<2	0.46	1.5	43	113	49	11.26	20	<1	0.08	<10	1.59	1375	<1	0.01	80	<10	28	<0.01	<2	19	5	0.18	<10	<10	245	20	118
130	FS139	674027	4553315	605	1	7.8	0.001	<0.2	3.25	10	<10	50	0.7	<2	0.59	0.7	38	106	52	8.35	20	<1	0.05	<10	1.66	2080	<1	0.01	79	50	18	<0.01	<2	18	12	0.25	<10	<10	279	20	109
131	FS140	674229	4553676	611	1	7.8	0.003	<0.2	3.5	11	10	70	0.7	<2	0.75	0.6	37	81	57	6.8	20	<1	0.07	<10	1.56	2400	<1	0.01	65	110	25	<0.01	4	16	27	0.22	<10	<10	210	20	117
132	FS144	673196	4553117	473	3	8.1	0.002	<0.2	2.66	11	<10	30	0.6	<2	0.83	0.5	25	60	41	6.58	10	<1	0.03	<10	1.44	1255	<1	0.02	57	30	15	<0.01	7	13	23	0.27	<10	<10	249	20	97
133	FS145	673219	4552588	471	2	7.4	0.007	<0.2	2.46	24	<10	70	0.5	<2	0.82	4.4	19	44	93	4.98	10	<1	0.04	<10	1.28	1130	1	0.03	49	50	21	0.11	3	10	31	0.15	<10	<10	140	10	1170
134	FS146	673198	4552342	452	3	7.8	0.002	<0.2	2.91	8	<10	80	<0.5	<2	0.72	<0.5	21	50	35	4.7	10	1	0.03	<10	1.4	816	<1	0.02	46	50	7	<0.01	4	10	30	0.17	<10	<10	137	10	91
135	FS147	673123	4552311	458	2	7.8	<0.001	<0.2	2.29	8	<10	80	<0.5	<2	0.58	<0.5	16	34	36	3.63	20	<1	0.04	<10	1.16	2020	<1	0.01	28	70	8	<0.01	3	8	36	0.11	<10	<10	103	10	78
136	FS148	672803	4552869	304	2	8.1	<0.001	<0.2	2.66	6	<10	30	0.7	<2	0.86	0.6	18	13	40	7.13	10	<1	0.06	<10	1.12	815	<1	0.02	17	110	16	<0.01	6	15	28	0.22	<10	10	195	10	126
137	FS149	672784	4552605	278	3	8.2	0.001	<0.2	3.01	6	<10	80	0.5	<2	1.05	<0.5	25	42	47	5.26	10	<1	0.02	<10	1.75	785	<1	0.06	62	90	<2	<0.01	4	10	31	0.3	<10	<10	208	20	91
138	FS150	672038	4551298	258	5	8.2	<0.001	<0.2	2.2	10	<10	90	0.5	<2	0.54	<0.5	17	43	26	4.22	10	<1	0.04	<10	1.08	770	<1	0.01	29	70	6	<0.01	6	12	12	0.15	<10	<10	138	10	69
139	FS154	674987	4558544	649	1	8.2	<0.001	<0.2	3.7	9	<10	20	0.6	<2	1.03	0.6	24	9	55	6.67	20	<1	0.04	<10	1.06	1210	<1	0.04	6	380	6	<0.01	4	23	107	0.24	<10	<10	270	10	73
140	FS155	675122	4558793	587	3	8.2	0.001	<0.2	2.61	18	<10	40	0.8	<2	0.42	0.8	15	21	35	6.53	20	<1	0.04	10	0.69	1425	<1	0.01	5	100	26	<0.01	<2	16	45	0.24	<10	<10	311	10	179
141	FS156	675945	4559213	464	3	7.9	0.001	<0.2	1.89	10	<10	60	0.7	<2	0.19	<0.5	9	10	14	4.23	10	<1	0.07	<10	0.3	1085	<1	0.01	7	80	10	<0.01	5	10	5	0.17	<10	<10	144	10	194
142	FS157	675282	4558585	477	1	8.2	0.001	<0.2	1.45	3	<10	70	0.6	<2	0.21	<0.5	5	3	5	2.62	10	<1	0.05	10	0.26	770	<1	0.01	3	170	2	<0.01	5	8	7	0.07	<10	<10	32	10	73
143	FS158	675804	4558495	580	1	8.2	0.001	<0.2	1.24	3	<10	100	0.5	<2	0.26	<0.5	8	4	15	2.67	10	<1	0.06	10	0.24	1055	<1	<0.01	4	160	9	<0.01	4	6	9	0.03	<10	<10	54	10	77
144	FS161	676201	4559155	491	2	8.1	0.001	<0.2	1.35	12	<10	100	0.6	<2	0.27	<0.5	12	5	19	5.17	10	<1	0.07	<10	0.35	1230	<1	0.01	4	180	25	<0.01	5	9	9	0.08	<10	<10	145	10	103
145	FS165	677854	4559112	811	3	8	0.001	<0.2	2.84	10	<10	90	0.9	<2	0.58	0.5	15	9	20	6.1	10	<1	0.04	<10	1.26	937	<1	0.02	8	170	14	<0.01	4	12	42	0.22	<10	<10	208	10	140
146	FS166	677869	4558925	823	2	8.1	0.003	<0.2	3.31	<2	<10	110	0.8	<2	0.2	<0.5	14	15	23	5.8	20	<1	0.04	10	0.99	979	<1	0.01	11	70	11	<0.01	<2	11	3	0.18	<10	<10	203	10	137
147	FS167	677947	4558606	911	2	8.3	0.001	<0.2	3.03	6	<10	80	1	<2	0.33	0.6	20	8	22	7.58	20	<1	0.03	10	0.98	1175	<1	0.01	5	250	16	<0.01	7	20	25	0.16	<10	<10	250	20	118
148	FS168	677376	4550675	714	5	7.9	0.002	<0.2	1.42	3	<10	50	<0.5	<2	0.15	<0.5	6	2	11	2.4	10	1	0.04	<10	0.45	698	<1	0.01	4	190	3	<0.01	4	3	8	0.02	<10	<10	20	10	59
149	FS170	677150	4551124	709	1	7.2	0.001	<0.2	1.28	6	<10	30	<0.5	<2	0.14	<0.5	6	4	9	3.56	10	<1	0.02	<10	0.42	807	<1	0.01	5	150	16	<0.01	<2	4	5	0.04	<10	<10	31	10	83
150	FS171	676663	4551899	569	4	7.5	0.004	<0.2	2.15	2	<10	60	<0.5	<2	0.25	<0.5	17	6	55	4.75	10	<1	0.04	<10	0.93	1245	<1	0.01	10	170	23	<0.01	<2	10	6	0.04	<10	<10	89	10	151

Appendix 4 Results of Chemical Analysis for Stream Sediments(4)

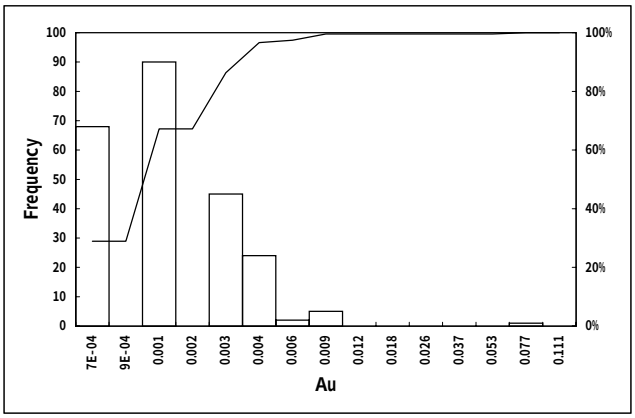
No.	Sample	Coodination		Altitude	River	pH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N		Width(m)		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
151	FS172	677083	4552117	691	2	7.7	0.004	<0.2	2.82	17	<10	70	<0.5	<2	0.18	3.8	22	8	220	6.09	20	<1	0.04	<10	1.53	1715	<1	0.01	12	210	26	0.02	2	10	<1	0.07	<10	<10	139	20	985
152	FS173	677909	4553190	890	1	7.8	0.004	<0.2	2.61	5	<10	110	<0.5	<2	0.16	0.7	21	10	78	6.01	10	<1	0.05	<10	1.03	1215	<1	<0.01	11	140	25	<0.01	<2	9	<1	0.02	<10	<10	152	20	123
153	FS174	678308	4552986	820	2	7.4	0.002	<0.2	2.69	4	<10	30	<0.5	<2	0.57	0.6	20	52	61	5.39	10	<1	0.03	<10	1.47	970	<1	0.01	31	130	14	<0.01	6	14	10	0.08	<10	<10	140	10	90
154	FS175	678887	4552442	807	2	7.7	0.001	<0.2	2.15	8	<10	80	0.6	<2	0.27	<0.5	17	14	47	4.05	10	<1	0.06	<10	0.86	926	<1	0.01	11	130	10	<0.01	4	7	14	0.11	<10	<10	91	10	82
155	FS176	678821	4552441	808	2	8.3	<0.001	<0.2	1.4	3	<10	60	0.5	<2	0.11	<0.5	6	3	5	2.2	10	1	0.05	10	0.41	593	<1	0.01	4	110	3	<0.01	3	3	6	0.01	<10	<10	22	10	46
156	FS177	676392	4554450	494	2	7.5	0.002	<0.2	0.4	14	<10	180	<0.5	<2	0.05	<0.5	1	3	25	1.39	<10	<1	0.02	<10	0.11	208	1	<0.01	2	30	22	0.02	4	1	3	<0.01	<10	<10	7	10	109
157	FS178	679030	4553318	731	2	8.2	0.004	<0.2	1.81	6	<10	90	0.5	<2	0.5	<0.5	19	42	42	4.47	10	<1	0.04	10	0.82	1260	<1	0.01	22	200	15	<0.01	4	9	22	0.05	<10	<10	139	10	75
158	FS180	679485	4553941	782	5	7.9	0.002	<0.2	1.93	6	<10	60	<0.5	<2	0.3	<0.5	14	21	30	3.31	10	2	0.04	<10	0.83	785	<1	0.01	17	230	10	<0.01	4	6	15	0.05	<10	<10	64	10	71
159	FS181	678687	4553250	597	2	7.8	0.003	<0.2	2.85	5	<10	40	<0.5	<2	0.47	0.8	22	31	72	5.85	10	<1	0.03	<10	1.5	1020	<1	0.01	20	100	11	<0.01	3	14	6	0.07	<10	<10	160	20	111
160	FS182	678847	4553099	637	3	8.2	0.003	<0.2	2.32	3	<10	50	<0.5	<2	0.43	<0.5	15	33	31	3.99	10	<1	0.03	<10	1.11	827	<1	0.01	22	180	7	<0.01	<2	10	11	0.07	<10	<10	94	10	82
161	FS183	678936	4552928	662	10	8.1	0.002	<0.2	1.9	6	<10	60	0.5	<2	0.44	<0.5	16	34	49	5.4	10	<1	0.06	<10	0.71	606	<1	0.02	14	360	16	<0.01	2	7	19	0.09	<10	<10	236	10	55
162	FS184	678721	4553844	576	8	7.7	0.001	<0.2	1.95	4	<10	60	0.5	<2	0.29	<0.5	18	29	38	4.06	10	<1	0.04	10	0.86	1205	<1	0.01	24	110	15	<0.01	5	10	12	0.06	<10	<10	99	10	66
163	FS185	679481	4554816	642	1	8.2	<0.001	<0.2	2.56	7	<10	20	0.5	<2	0.93	<0.5	27	82	57	5.8	20	<1	0.03	<10	1.6	1530	<1	0.01	56	140	17	<0.01	3	14	19	0.12	<10	10	150	20	102
164	FS186	679046	4554591	597	1	7.8	0.003	<0.2	3.32	11	<10	80	0.5	<2	0.46	1.1	30	76	63	6.82	20	<1	0.04	<10	1.76	1555	<1	0.01	50	90	17	<0.01	4	16	10	0.1	<10	<10	190	10	109
165	FS187	678153	4555822	716	1	7.4	<0.001	<0.2	2.62	<2	<10	30	<0.5	<2	0.67	<0.5	33	62	59	7.4	20	<1	0.1	<10	1.16	1140	<1	0.02	46	120	5	<0.01	<2	25	29	0.13	<10	<10	148	<10	58
166	FS188	676050	4554025	632	1	7.3	0.001	<0.2	0.46	4	<10	100	<0.5	<2	0.1	<0.5	2	3	72	3.14	<10	<1	0.03	<10	0.05	667	2	0.01	2	40	29	<0.01	<2	4	7	0.02	<10	<10	15	<10	167
167	FS189	676978	4553876	679	2	8.1	0.002	<0.2	0.71	10	<10	120	<0.5	<2	0.12	0.6	5	15	18	2.64	10	<1	0.03	<10	0.21	414	<1	<0.01	8	70	17	0.1	<2	4	7	0.03	<10	<10	55	<10	259
168	FS190	677208	4553873	689	2	8.1	0.001	<0.2	0.68	9	<10	200	0.5	<2	0.32	<0.5	8	6	19	6.65	10	<1	0.03	<10	0.18	2690	1	0.01	4	110	10	0.01	<2	8	12	0.01	<10	<10	58	<10	52
169	FS191	678303	4554696	379	10	7.7	0.002	<0.2	1.84	3	<10	60	<0.5	<2	0.4	<0.5	19	36	44	5.55	10	<1	0.04	<10	0.92	1090	<1	0.01	20	260	10	<0.01	<2	9	22	0.08	<10	<10	189	<10	61
170	FS192	677861	4554385	387	1	7.8	0.001	<0.2	1.38	4	<10	60	<0.5	<2	0.2	<0.5	12	27	42	4.65	10	<1	0.02	<10	0.57	1025	<1	0.01	13	210	12	0.05	2	8	8	0.03	<10	<10	107	<10	90
171	FS193	677635	4554322	452	3	8	0.002	<0.2	2.29	4	<10	140	<0.5	<2	0.27	<0.5	20	9	76	6.03	20	<1	0.04	<10	1.15	1290	<1	0.01	8	230	17	0.01	<2	11	12	0.03	<10	<10	145	<10	134
172	FS194	677581	4554385	449	3	8.1	0.004	<0.2	1.89	4	<10	80	<0.5	<2	0.2	<0.5	17	18	55	6.11	10	<1	0.03	<10	0.63	763	<1	0.01	12	150	8	0.06	<2	14	11	0.08	<10	<10	199	<10	69
173	FS195	Duplication of FS020					0.002	<0.2	2.68	2	<10	100	0.5	<2	0.95	<0.5	26	54	48	5.28	20	<1	0.04	<10	1.57	1480	<1	0.01	50	240	12	<0.01	<2	15	29	0.15	<10	<10	144	<10	69
174	FS196	Duplication of FS061					0.001	<0.2	1.69	2	<10	50	0.5	<2	0.51	<0.5	12	14	24	4.73	10	<1	0.04	10	0.67	982	<1	0.01	11	310	11	0.01	<2	7	23	0.09	<10	<10	140	<10	82
175	FS197	Duplication of FS092					0.002	0.4	1.11	2	<10	50	<0.5	<2	0.33	<0.5	7	7	15	2.87	10	<1	0.04	10	0.29	1015	<1	0.01	9	220	13	0.01	2	3	14	0.03	<10	<10	36	<10	58
176	FS198	Duplication of FS115					0.001	<0.2	2.61	2	<10	110	0.7	<2	0.41	<0.5	12	8	22	4.61	20	<1	0.07	10	0.92	986	<1	0.02	5	210	8	<0.01	<2	11	95	0.15	<10	<10	124	<10	95
177	FS199	Duplication of FS135					0.002	<0.2	2.21	3	<10	110	0.5	<2	1.05	<0.5	24	40	41	4.49	10	<1	0.04	<10	1.32	1465	<1	0.01	52	230	11	<0.01	2	14	28	0.09	<10	<10	106	<10	57
178	FS200	Duplication of FS150					0.001	<0.2	2.04	2	<10	80	0.5	<2	0.58	<0.5	16	43	25	4.51	10	<1	0.04	<10	1.11	778	<1	0.01	27	140	4	<0.01	<2	11	18	0.15	<10	<10	143	<10	61
179	AS003	673110	4554105	608	2	7.6	0.003	<0.2	4.09	3	<10	60	0.6	<2	1.44	0.5	44	106	67	7.02	30	<1	0.02	<10	1.97	2520	<1	0.01	69	200	18	0.01	<2	21	45	0.19	<10	<10	201	<10	118
180	AS004	674389	4554336	328	2	7.8	0.001	<0.2	3.11	6	10	30	0.5	<2	1.55	<0.5	27	45	48	4.87	20	<1	0.02	<10	2.22	1400	<1	0.03	89	170	15	<0.01	<2	9	41	0.27	<10	<10	161	<10	79
181	AS005	673631	4554754	240	2	8	0.002	<0.2	3.06	<2	<10	40	0.5	<2	0.79	<0.5	29	58	43	5.56	20	<1	0.02	<10	1.76	1400	<1	0.02	64	130	8	<0.01	<2	13	41	0.25	<10	<10	193	<10	77
182	AS006	673135	4554693	332	1.5	8.4	0.001	<0.2	2.92	3	<10	50	0.6	<2	0.9	0.5	42	71	40	9.16	20	<1	0.03	<10	1.53	2060	<1	0.01	61	130	18	<0.01	2	16	36	0.2	<10	<10	225	<10	80
183	AS007	673163	4554742	337	3	8.6	0.001	<0.2	3.65	2	<10	40	0.6	<2	1.61	1	39	98	51	8.49	20	<1	0.03	<10	1.86	1955	<1	0.01	76	150	15	0.01	2	21	39	0.23	<10	<10	222	<10	93
184	AS008	672987	4554934	314	1.5	7.9	<0.001	<0.2	3.48	2	<10	20	0.5	<2	1.46	1.1	47	107	47	9.56	20	<1	0.02	<10	2.1	1685	<1	0.01	71	140	11	0.01	2	20	34	0.22	<10	<10	279	10	76
185	BS001	681159	4555904	590	1	7.4	<0.001	<0.2	1.68	<2	<10	20	<0.5	<2	0.13	<0.5	6	19	7	2.22	10	<1	0.02	<10	0.27	250	<1	<0.01	16	130	7	0.01	<2	3	8	0.04	<10	<10	37	<10	37
186	BS002	681447	4555976	620	0.7	7.8	<0.001	<0.2	0.84	<2	<10	20	<0.5	<2	1.03	<0.5	5	10	9	1.52	<10	<1	0.06	<10	0.23	310	<1	0.01	9	150	4	0.01	<2	2	23	0.02	<10	<10	23	<10	38
187	BS003	681697	4556235	705	1.5	7.6	<0.001	<0.2	1.21	<2	<10	10	<0.5	<2	0.45	<0.5	6	15	7	1.86	10	<1	0.02	<10	0.47	300	<1	0.01	14	90	3	<0.01	2	3	15	0.03	<10	<10	29	<10	39
188	BS004	681968	4556263	705	4	7.7	<0.001	<0.2	1.04	<2	<10	50	<0.5	<2	0.28	<0.5	5	8	9	2.6	10	<1	0.03	<10	0.31	450	<1	0.01	6	170	5	<0.01	<2	3	11	0.03	<10	<10	50	<10	50
189	BS005	682259	4555767	615	1	8.1	<0.001	<0.2	2.31	<2	<10	20	<0.5	<2	0.96	<0.5	22	121	32	3.5	10	<1	0.03	<10	1.31	520	<1	0.02	72	220	5	<0.01	2	6	28	0.11	<10	<10	188	<10	45
190	BS006	682755	4555760	640	4	8.1	<0.001	<0.2	1.4	<2	<10	40	<0.5	<2	0.43	<0.5	9	15	16	2.77	10	<1	0.03	<10	0.58	581	<1	0.02	18	240	5	<0.01	<2	4	18	0.04	<10	<10	54	<10	58
191	BS007	682943	4556240	715	1	7.8	<0.001	<0.2	2.11	<2	<10	30	<0.5	<2	0.69	<0.5	14	37	15	2.84	10	<1	0.02	<10	0.97	415	<1	0.03	46	260	5	0.01	3	3	36	0.05	<10	<10	62	<10	47
192	BS008	683126	4556213	705	2.5	7.9	<0.001	<0.2	1.39	<2	<10	60	<0.5	<2	0.33	<0.5	8	13	14	2.64	10	<1	0.03	<10	0.53	580	<1	0.02	15	200	5	<0.01	<2	4	15	0.04	<10	<10	46	<10	59
193	BS009	679775	4555450	460	0.5	8	<0.001	<0.2	2.15	3	<10	40	0.5	<2	0.59	<0.5	20	63	33	5.82	10	<1	0.04	<10	1.11	887	<1	0.01	38	320	8	<0.01	<2	11	29	0.12	<10	<10	173	<10	59
194	BS010	679670	4555410	465	1	7.9	<0.001	<0.2	2.07	2	<10	30	<0.5	<2	1.08	<0.5	19	41	34	3.93	10	<1	0.03	<10	1.34	969	<1	0.02	45	210	5	<0.01	<2	9	31	0.1	<10	<10	81	<10	57
195	BS011	679490	4555240	490	1	7.3	0.002	<0.2	2.68	2	<10	40	0.5	<2	0.8	<0.5	26	70	42	5.42	20	<1	0.03	10	1.51	1105	<1	0.01	57	150	14	<0.01	<2	13	37	0.12	<10	<10	136	<10	65
196	BS012	679290	4555170	495	0.7	7.7	0.001	<0.2	2.48	<2	<10	30	<0.5	<2	0.66	<0.5	22	60	44	4.84	20	<1	0.04	<10	1.24	1070	<1	0.02	40	280	7	<0.01	2	12	28	0.14	<10	<10	131	<10	58
197	BS013	679130	4555040	505	0.7	7.9	<0.001	<0.2	3.37	2	<10	40	<0.5	<2	0.52	<0.5	37	41	112	8.69	20	<1	0.02	<10	2.03	1405	<1	0.01	25	190	7	<0.01	<2	24	32	0.1	<10	<10	299	<10	107
198	BS014	678860	4554760	550	1	6.9	0.001	<0.2	3.08	2	<10	60	0.5	<2	0.87	0.6	36	21	86	8.59	20	<1	0.02	<10	1.39	1690	<1	0.01	14	240	9	<0.01	2	26	18	0.12	<10	<10	321	10	95
199	BS015	678785	4554720	657	0.5	7.7	0.002	<0.2	2.88	3	<10	50	<0.5	<2	0.38	<0.5	26	17	82	7.15	20	<1	0.03	<10	1.14	1220	<1	0.01	11	230	7	<0.01	<2	18	27	0.1	<10	<10	261	<10	86
200	BS016	679330	4553890	575	4	7.9	0.001	<0.2	1.7	3	<10	50	<0.5	<2	0.34	<0.5	15	26	30	4.16	10	<1	0.04	<10	0.81	730	<1	0.01	14	290	8	0.01	<2	6	19	0.06	<10	<10	105	<10	60

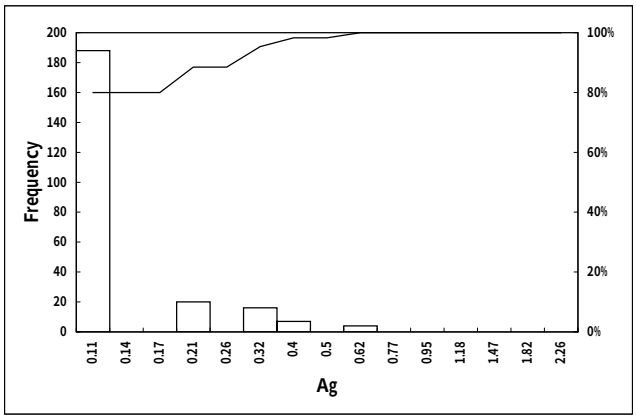
Appendix 4 Results of Chemical Analysis for Stream Sediments(5)

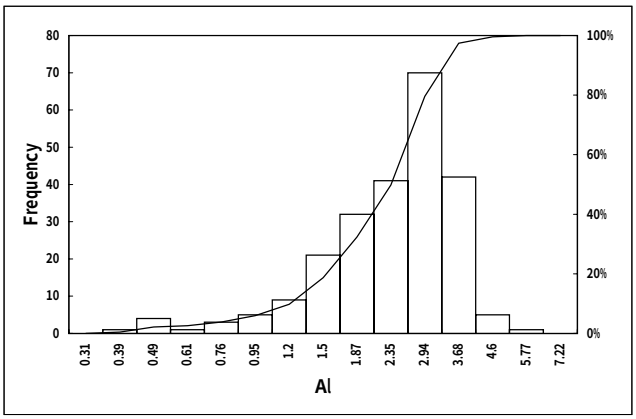
No.	Sample	Coodination		Altitude	River	pH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N		Width(m)		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
201	CS001	688130	4559000	800	5	8	<0.001	<0.2	2.71	2	<10	30	<0.5	<2	0.59	<0.5	20	16	59	5.69	10	<1	0.03	<10	1.51	1040	<1	0.02	12	250	8	<0.01	<2	10	17	0.12	<10	<10	124	<10	81
202	CS002	687745	4559334	735	3	8	<0.001	<0.2	1.82	<2	<10	30	<0.5	<2	0.28	<0.5	14	20	32	4.01	10	<1	0.03	<10	1.07	838	<1	0.01	14	130	7	<0.01	<2	7	10	0.07	<10	<10	68	<10	62
203	CS003	687475	4559797	640	3	8	<0.001	<0.2	1.07	<2	<10	30	<0.5	<2	0.14	<0.5	7	7	15	2.98	10	<1	0.04	<10	0.33	679	<1	0.01	6	90	7	<0.01	<2	4	9	0.04	<10	<10	41	<10	47
204	CS004	Duplication of CS0		575	3	7.9	<0.001	<0.2	2	2	<10	30	0.5	<2	0.6	<0.5	16	10	42	7.57	20	<1	0.04	<10	0.86	1060	<1	0.01	9	210	8	<0.01	<2	13	18	0.18	<10	<10	170	<10	76
205	CS005	685244	4559071	555	3	7.9	0.002	<0.2	1.79	6	<10	30	<0.5	<2	0.7	<0.5	10	15	24	3.71	10	<1	0.04	10	0.73	720	<1	0.02	16	260	11	0.03	<2	7	25	0.08	<10	<10	86	<10	77
206	CS006	685207	4559662	485	3	7.9	<0.001	<0.2	1.15	2	<10	60	<0.5	<2	0.41	<0.5	9	18	21	3.77	10	<1	0.04	<10	0.47	633	<1	0.01	14	240	9	0.03	<2	6	14	0.06	<10	<10	90	<10	73
207	CS007	679838	4555737	537	2	7.9	<0.001	<0.2	3.17	3	10	10	0.5	<2	1.06	0.9	37	100	46	9.79	20	<1	0.04	<10	2.04	1615	<1	0.02	66	160	6	<0.01	<2	23	49	0.3	<10	<10	301	10	92
208	CS008	Duplication of CS007					<0.001	<0.2	3.3	4	10	20	0.5	<2	1.07	0.5	38	93	46	9.11	20	<1	0.05	<10	1.99	1625	<1	0.02	65	180	6	<0.01	<2	23	51	0.3	<10	<10	274	10	88
209	CS009	679375	4555534	456	0.5	8.1	<0.001	<0.2	3.28	4	10	20	0.5	<2	0.97	2.1	40	106	53	14.8	20	<1	0.05	<10	2	1275	<1	0.01	100	110	8	<0.01	<2	20	44	0.39	<10	<10	276	10	86
210	CS010	678953	4555568	462	3	8.6	<0.001	<0.2	2.92	4	10	20	0.5	<2	0.98	1.7	36	86	55	11.7	20	<1	0.06	<10	1.92	1280	<1	0.02	66	140	6	<0.01	2	21	39	0.29	<10	<10	313	10	72
211	CS011	684023	4553853				0.055	<0.2	1.57	2	<10	40	<0.5	<2	0.34	<0.5	15	6	28	5.81	10	<1	0.04	<10	0.97	1080	<1	0.01	6	310	5	<0.01	<2	10	27	0.05	<10	<10	83	<10	72
212	CS013	Duplication of CS002					0.002	<0.2	0.86	<2	<10	40	<0.5	<2	0.21	<0.5	7	7	37	3.45	<10	<1	0.13	<10	0.29	213	<1	0.01	2	430	5	<0.01	<2	1	20	0.06	<10	<10	123	<10	24
213	DS001	684431	4551944	821	1.5	7.6	0.003	<0.2	2.03	2	<10	70	<0.5	<2	0.47	0.6	24	14	98	6.41	10	<1	0.09	<10	1.09	614	<1	0.03	8	730	12	0.02	<2	7	54	0.09	<10	<10	243	<10	58
214	DS002	684819	4552547	792	4	7.7	0.001	<0.2	0.84	<2	<10	30	<0.5	<2	0.2	<0.5	7	7	36	2.84	10	<1	0.12	<10	0.28	204	<1	0.01	2	400	5	<0.01	<2	1	20	0.06	<10	<10	100	<10	23
215	DS003	684269	4553446	728	4	8	0.002	<0.2	1.81	2	<10	50	<0.5	<2	0.37	<0.5	17	11	40	4.38	10	<1	0.1	<10	0.93	798	<1	0.01	8	370	8	0.01	<2	7	30	0.06	<10	<10	78	<10	56
216	DS004	684022	4553851	718	2	8.1	0.004	<0.2	1.71	2	<10	50	0.5	<2	0.38	<0.5	15	5	27	5.88	10	<1	0.04	<10	1.02	1215	<1	0.01	5	370	6	<0.01	<2	11	33	0.05	<10	<10	82	<10	74
217	DS005	684246	4554183	691	5	8.2	<0.001	<0.2	2.47	<2	<10	80	0.5	<2	0.29	<0.5	19	13	31	7.92	20	<1	0.03	<10	1.15	910	<1	0.01	9	360	7	<0.01	<2	8	23	0.1	<10	<10	205	10	66
218	DS006	684217	4554445	663	5	7.4	<0.001	<0.2	2.25	2	<10	50	0.6	<2	0.28	<0.5	13	15	31	5.28	10	<1	0.04	<10	0.79	984	<1	0.01	11	320	9	0.01	<2	8	19	0.1	<10	<10	109	<10	74
219	DS007	683502	4555355	640	3	8.4	<0.001	<0.2	0.87	2	<10	20	<0.5	<2	0.24	<0.5	6	3	13	2.7	10	<1	0.03	10	0.25	410	<1	0.01	4	290	5	0.01	<2	3	12	0.02	<10	<10	32	<10	57
220	DS008	680288	4552502	838	4	7.2	0.002	<0.2	1.54	2	<10	60	<0.5	<2	0.43	<0.5	16	68	51	8.19	10	<1	0.04	<10	0.48	424	1	0.03	14	830	12	<0.01	<2	6	37	0.1	<10	<10	498	10	31
221	DS009	Duplication of DS008					0.002	<0.2	1.59	<2	<10	60	<0.5	<2	0.44	<0.5	17	69	51	8.22	10	<1	0.05	<10	0.51	422	1	0.03	15	790	9	<0.01	<2	6	39	0.1	<10	<10	494	10	32
222	DS010	680261	4552590	812	1.5	8.7	0.001	<0.2	1.62	3	<10	30	<0.5	<2	0.41	<0.5	22	48	30	4.46	10	<1	0.05	<10	0.83	575	<1	0.01	19	190	9	<0.01	<2	4	22	0.16	<10	<10	160	<10	46
223	DS011	680209	4552595	774	2.5	7.9	<0.001	<0.2	1.73	5	<10	40	<0.5	<2	0.52	<0.5	16	13	32	4.08	10	<1	0.04	<10	0.83	664	<1	<0.01	9	250	7	<0.01	<2	4	19	0.07	<10	<10	68	<10	51
224	DS012	679716	4552404	751	2	7.7	0.002	<0.2	1.12	2	<10	40	<0.5	<2	0.35	0.5	16	62	30	9.16	10	<1	0.05	<10	0.42	426	1	0.01	12	400	6	<0.01	2	4	22	0.11	<10	<10	492	10	28
225	DS013	679510	4552400	806	2	8	<0.001	<0.2	1.43	<2	<10	60	<0.5	<2	0.32	<0.5	17	46	36	9.14	10	<1	0.07	<10	0.41	473	<1	0.01	13	210	8	<0.01	<2	7	12	0.12	<10	<10	486	10	28
226	DS014	679335	4552396	784	5	8	<0.001	<0.2	1.77	4	<10	60	0.5	<2	0.72	<0.5	19	9	36	4.61	10	<1	0.05	<10	0.85	950	<1	0.01	8	190	11	<0.01	<2	6	24	0.09	<10	<10	113	<10	46
227	DS015	679198	4553385	763	1.8	8.6	<0.001	<0.2	1.99	6	<10	80	0.5	<2	0.71	<0.5	22	67	43	5.69	20	<1	0.04	10	1.01	1205	<1	0.01	23	230	13	0.01	<2	11	27	0.07	<10	<10	193	<10	66
228	DS016	Duplication of DS015					0.002	<0.2	1.94	4	<10	70	<0.5	<2	0.7	<0.5	22	67	42	5.64	10	<1	0.03	10	0.99	1095	<1	0.01	23	220	13	0.01	<2	11	27	0.07	<10	<10	193	<10	65
229	DS017	679305	4552781	742	0.8	8	0.002	<0.2	1.49	2	<10	60	<0.5	<2	0.25	<0.5	13	16	26	3.16	10	<1	0.04	10	0.65	1115	<1	<0.01	13	200	14	<0.01	<2	6	13	0.02	<10	<10	51	<10	58
230	DS018	677260	4555111	445	1	8.1	<0.001	<0.2	2.83	<2	<10	20	<0.5	<2	0.66	0.8	29	75	34	7.32	20	<1	0.02	<10	1.46	1085	<1	0.01	42	150	4	<0.01	2	18	33	0.13	<10	<10	246	<10	61
231	DS019	676840	4555143	406	1	8	<0.001	<0.2	3.29	5	<10	60	0.5	<2	1	0.6	33	37	49	7.57	20	<1	0.03	<10	1.69	2400	<1	0.01	31	170	14	<0.01	<2	20	34	0.14	<10	<10	233	<10	86
232	DS020	676600	4555511	368	4	8.6	<0.001	<0.2	2.13	8	<10	130	0.5	<2	0.75	0.5	20	39	38	6.96	20	<1	0.04	<10	1.07	1430	<1	0.01	25	210	14	0.01	<2	14	32	0.18	<10	<10	210	<10	100
233	DS021	675954	4555132	255	1	7.7	<0.001	<0.2	2.77	6	<10	60	<0.5	<2	0.74	<0.5	33	106	46	6.19	20	<1	0.02	<10	1.48	1690	<1	0.01	55	180	7	0.03	2	15	18	0.17	<10	<10	223	<10	65
234	DS022	675495	4555181	283	2.5	8.3	<0.001	<0.2	2.51	4	<10	80	0.5	<2	0.63	0.5	24	45	36	6.12	20	<1	0.04	<10	1.1	1640	<1	0.02	31	210	8	0.01	<2	14	31	0.15	<10	<10	155	<10	84
235	DS023	674446	4554724	245	4	8.8	<0.001	<0.2	2.97	3	<10	40	0.5	<2	0.86	0.5	29	66	43	6.92	20	<1	0.05	<10	1.7	1330	<1	0.02	49	200	7	<0.01	2	19	39	0.19	<10	<10	164	<10	84

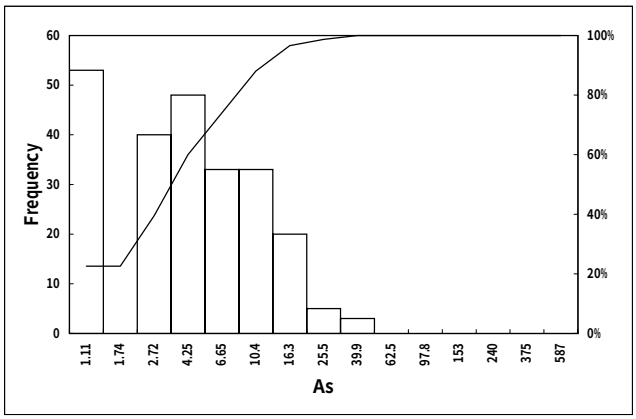
Appendix 5

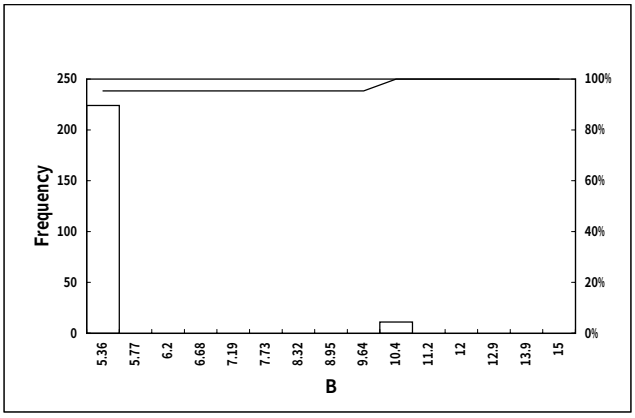
Cumulative Frequency Diagram and Histogram
(Stream Sediment)

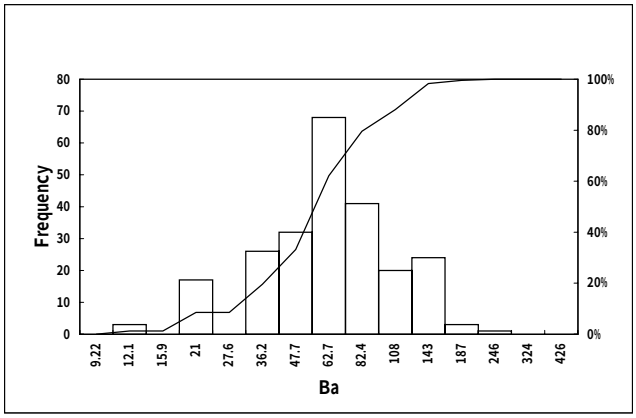


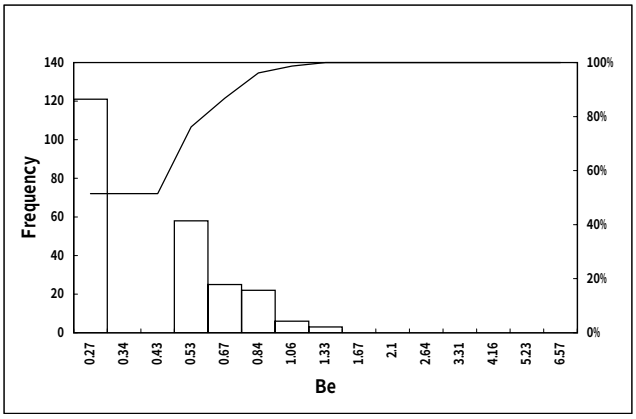


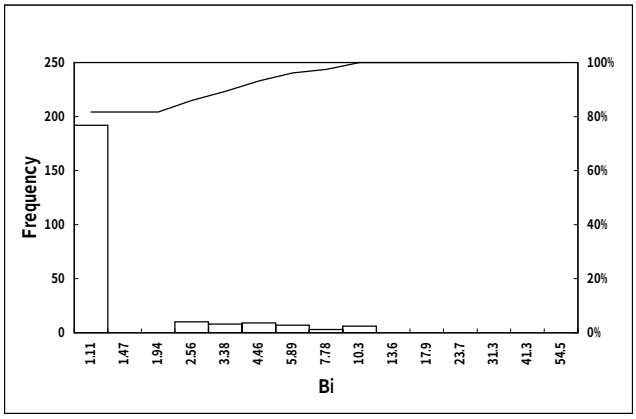




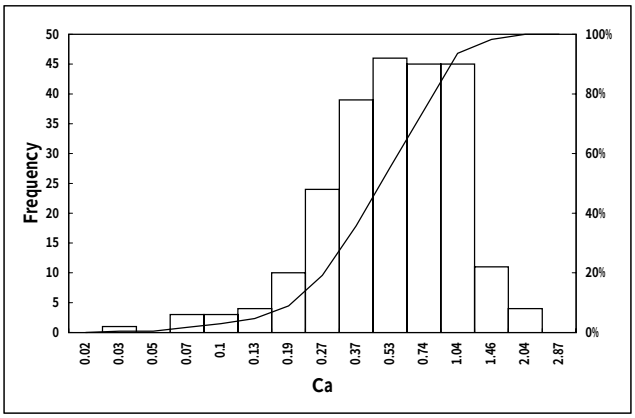


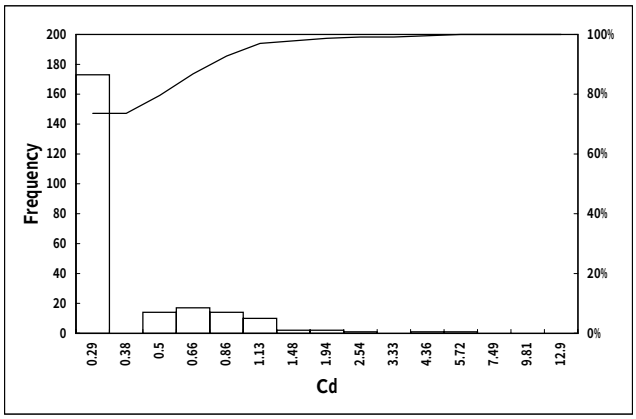


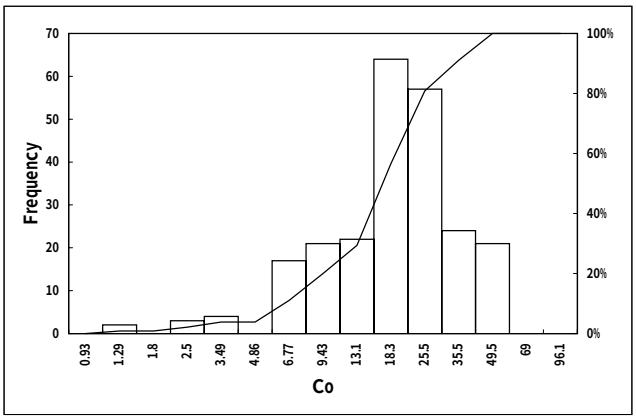


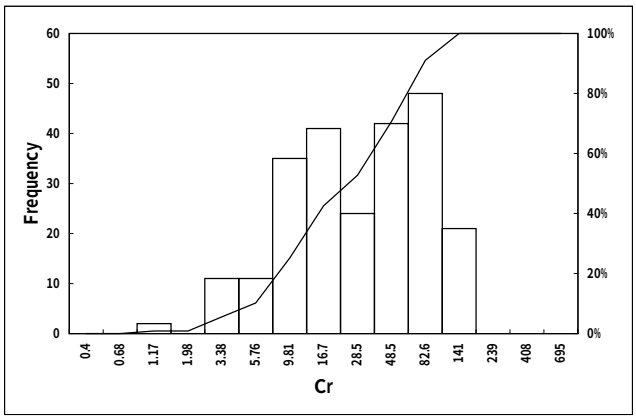


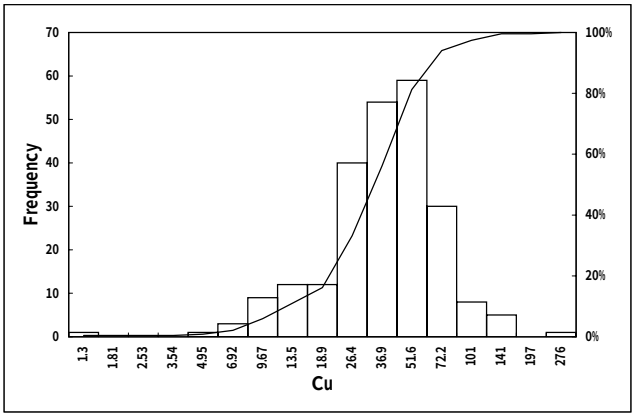
Appendix 5 Cumulative Frequency Diagram and Histogram (Stream Sediment) (1)

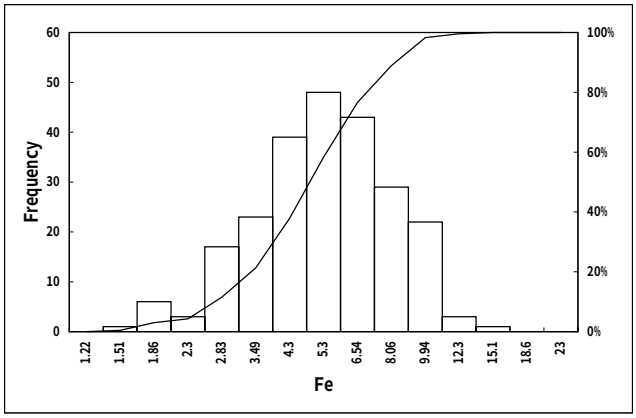


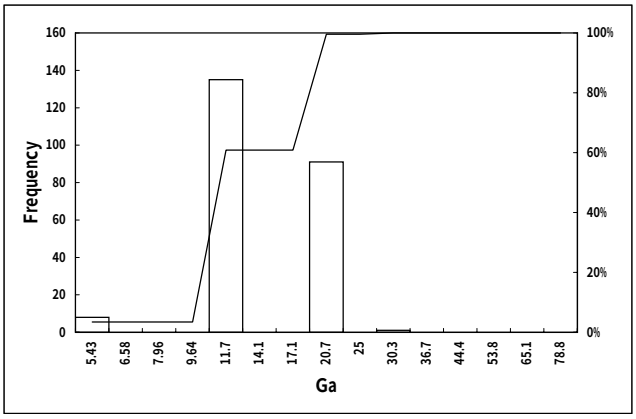


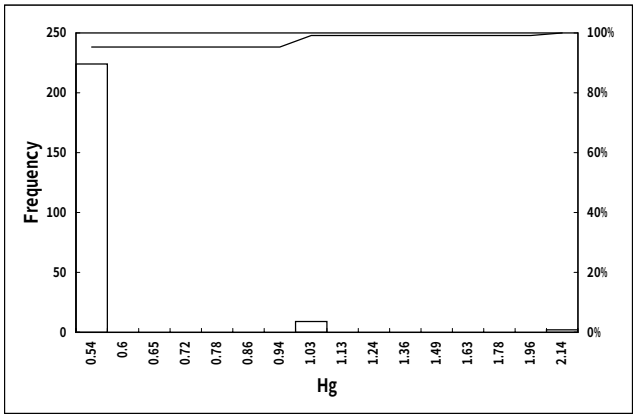




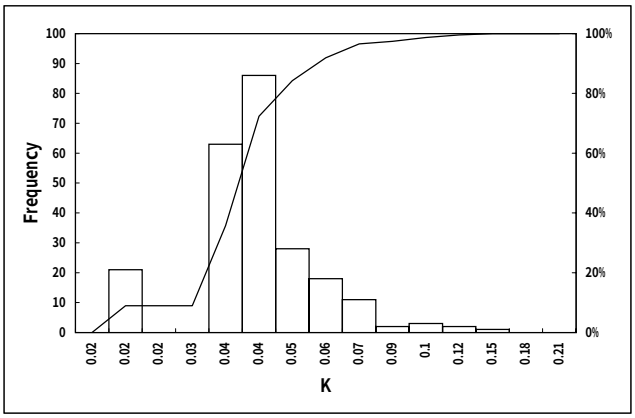


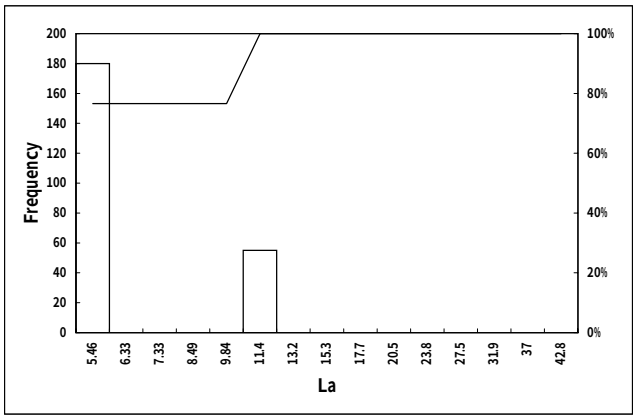


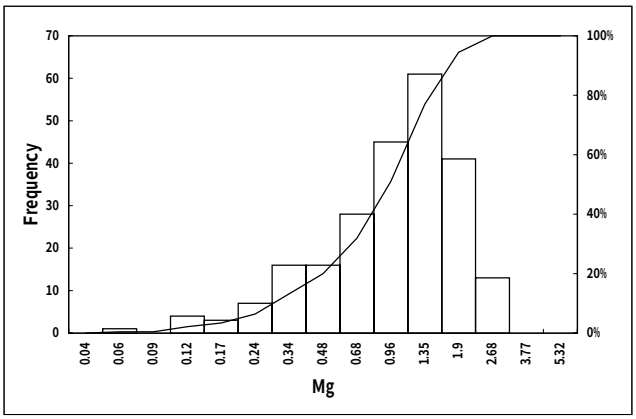


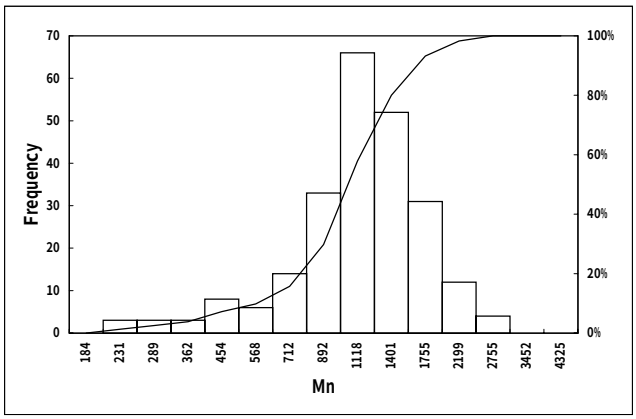


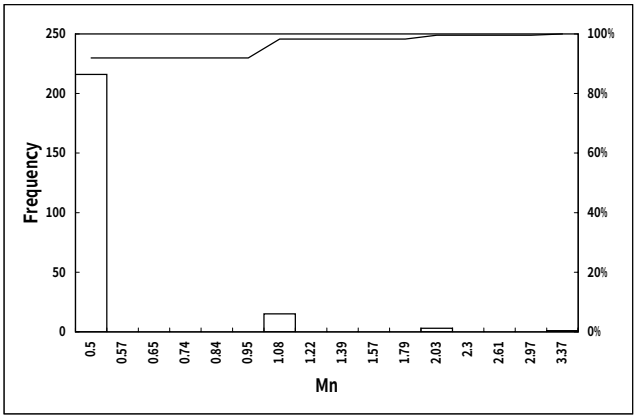
Appendix 5 Cumulative Frequency Diagram and Histogram (Stream Sediment) (2)

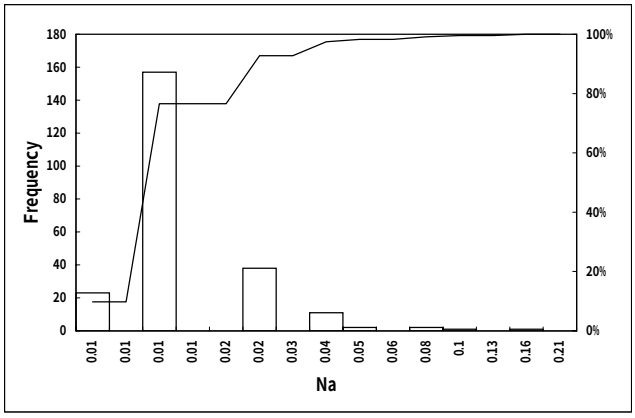


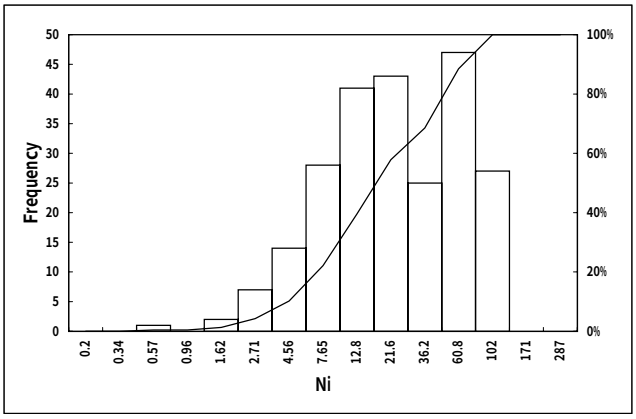


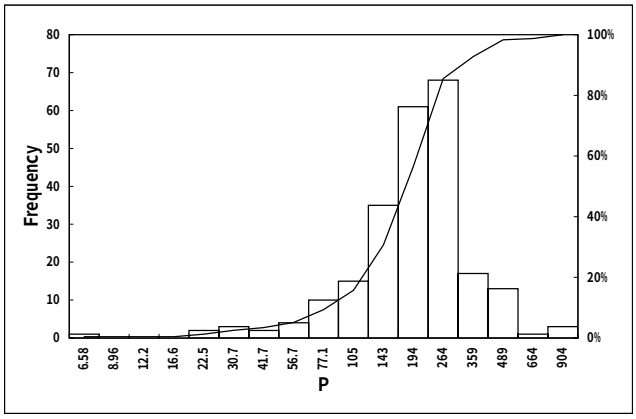




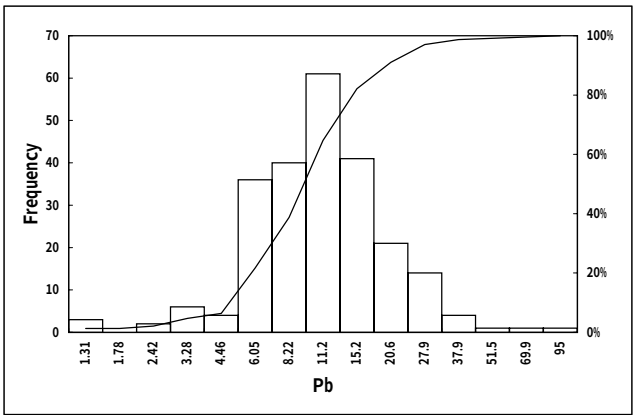


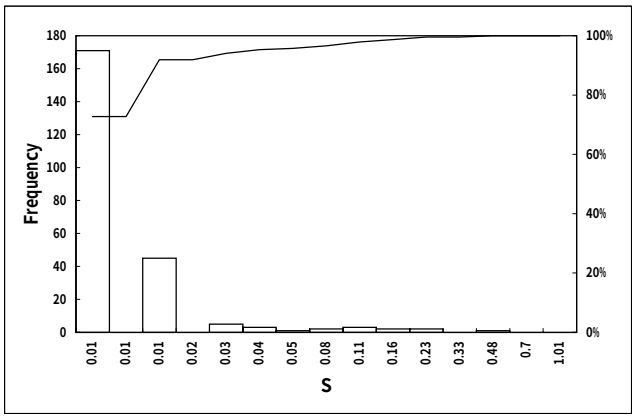


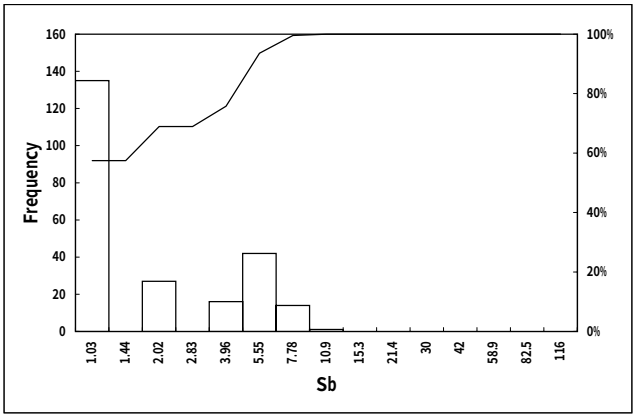


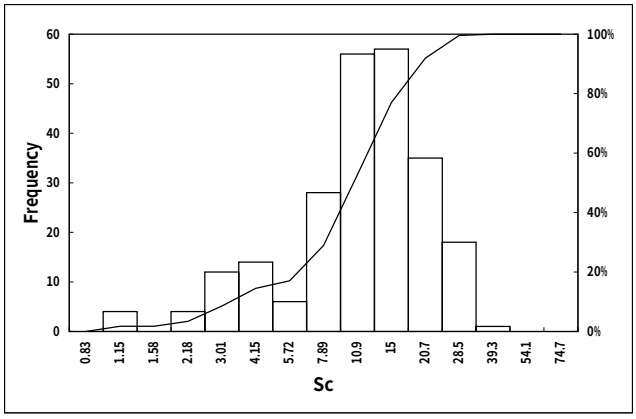


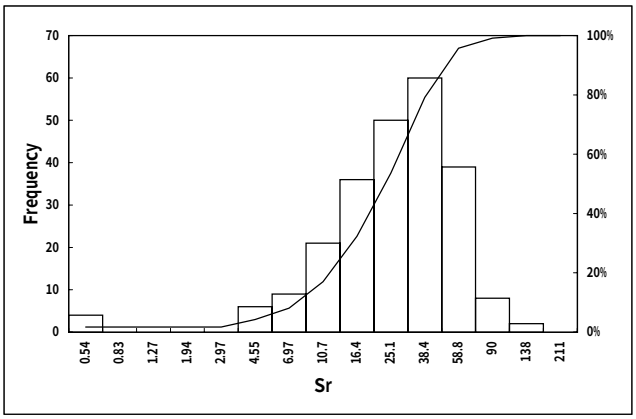
Appendix 5 Cumulative Frequency Diagram and Histogram (Stream Sediment) (3)

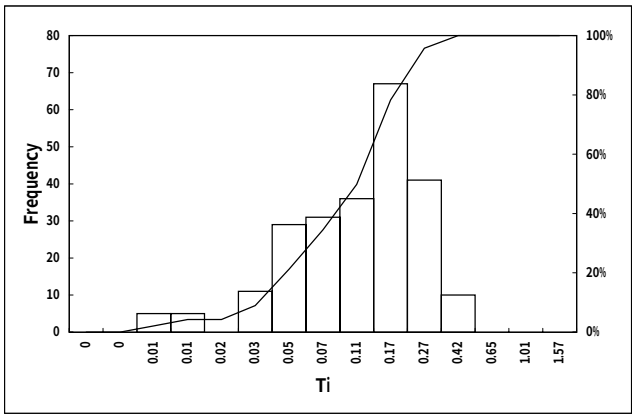


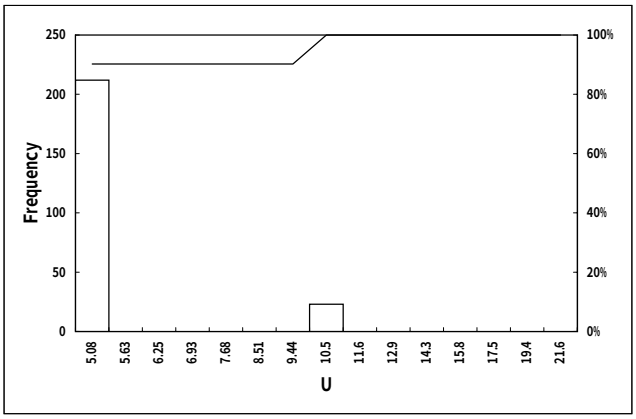


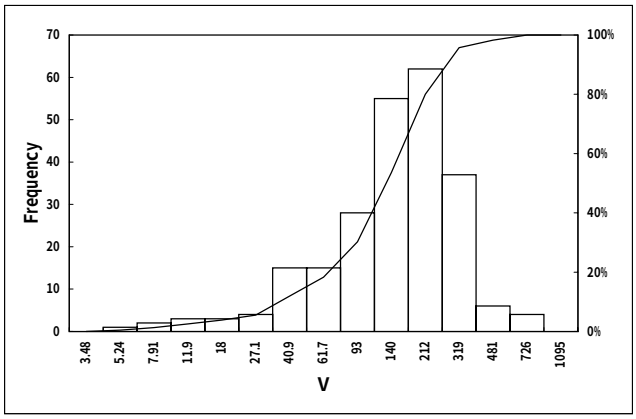




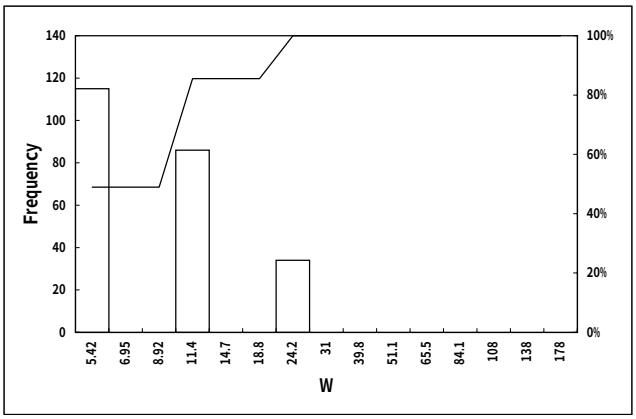


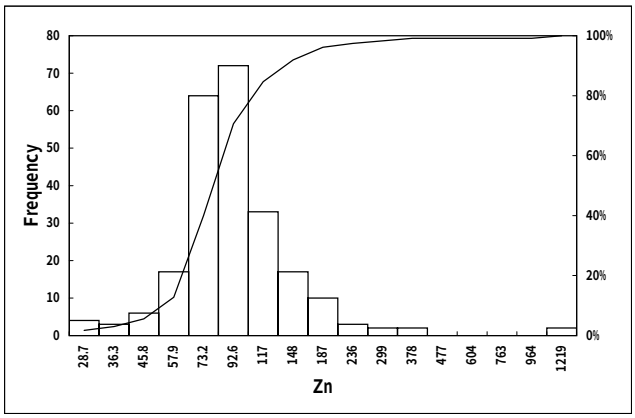






Appendix 5 Cumulative Frequency Diagram and Histogram (Stream Sediment) (4)

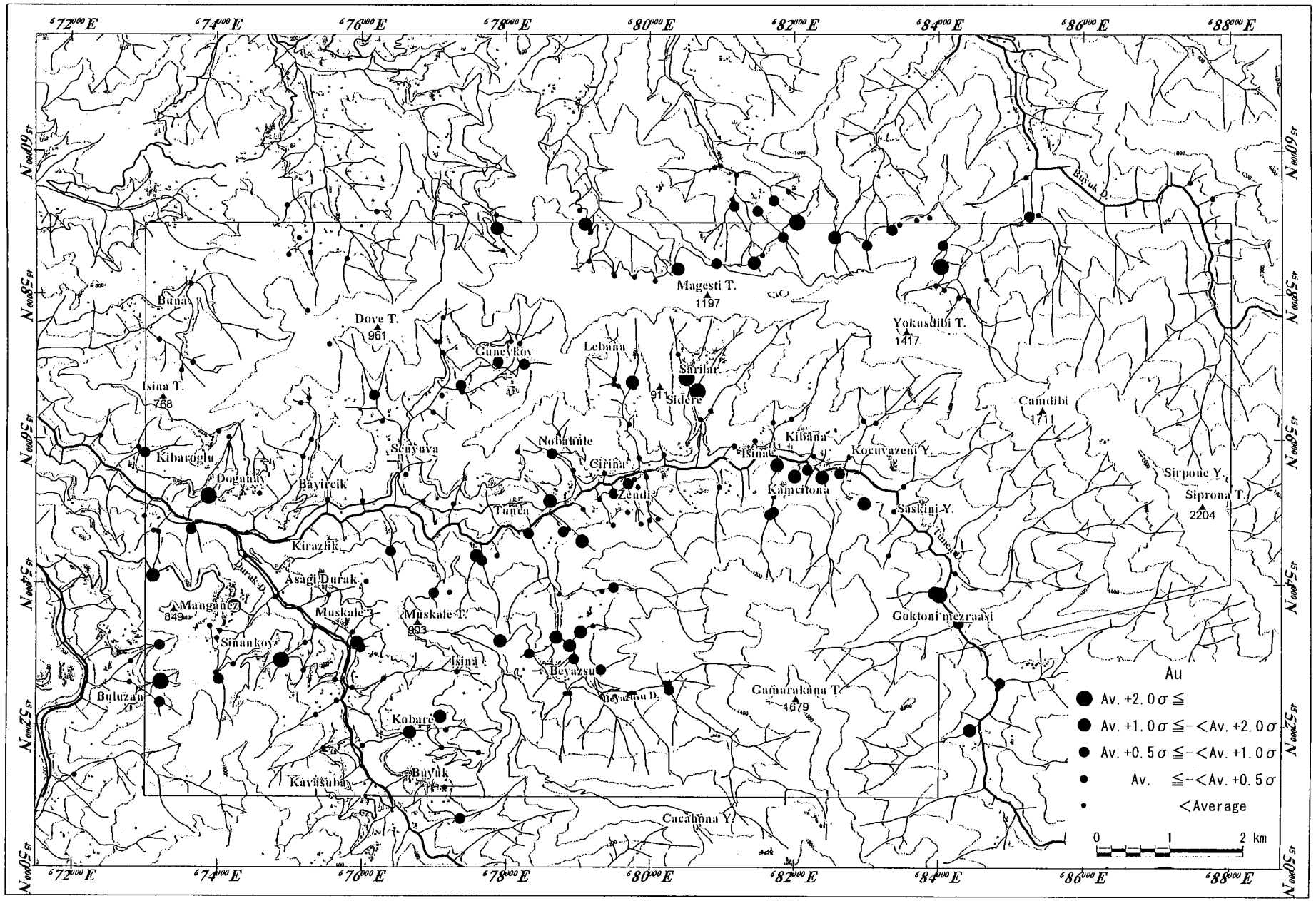




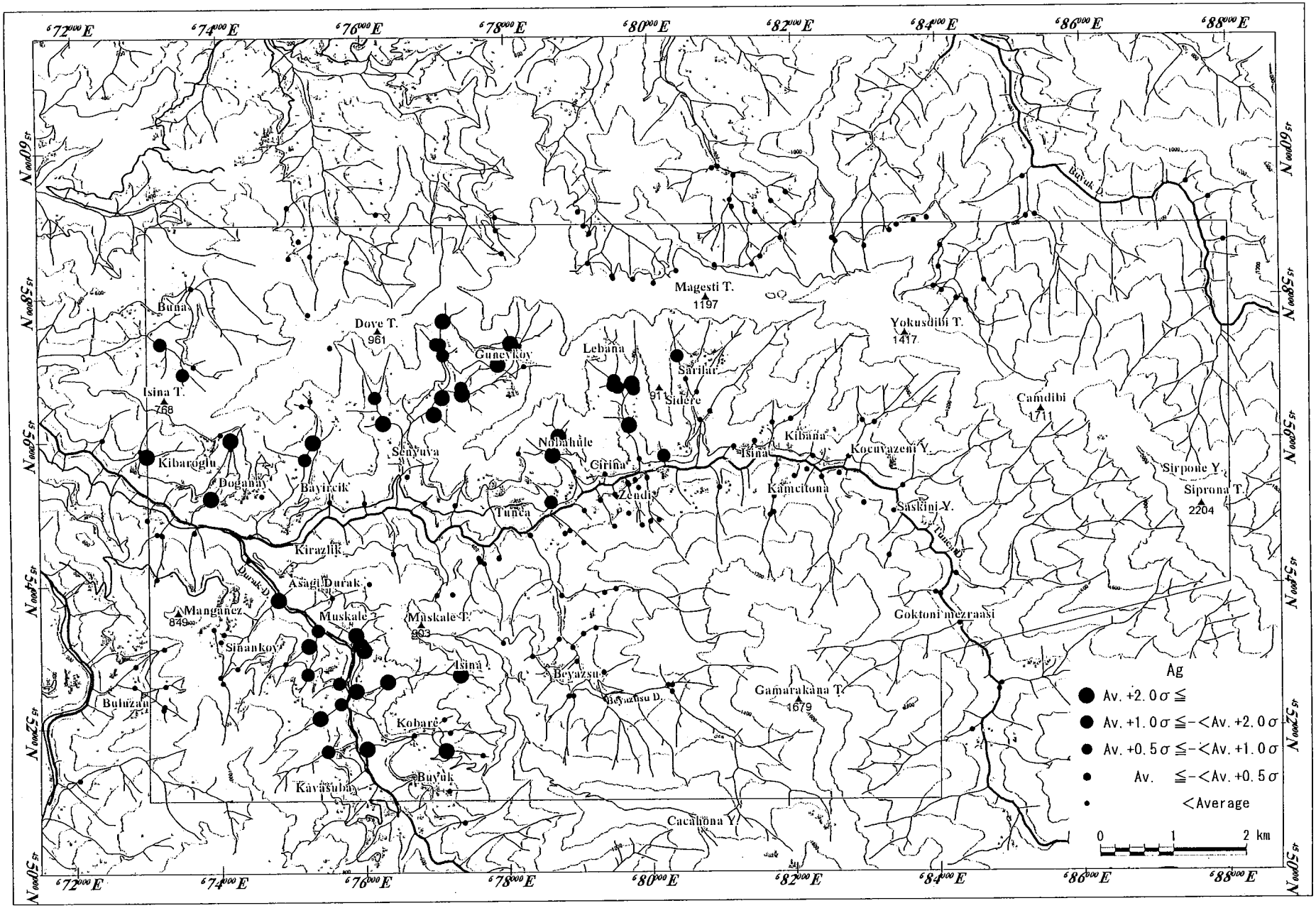
Appendix 5 Cumulative Frequency Diagram and Histogram (Stream Sediment) (5)

Appendix 6

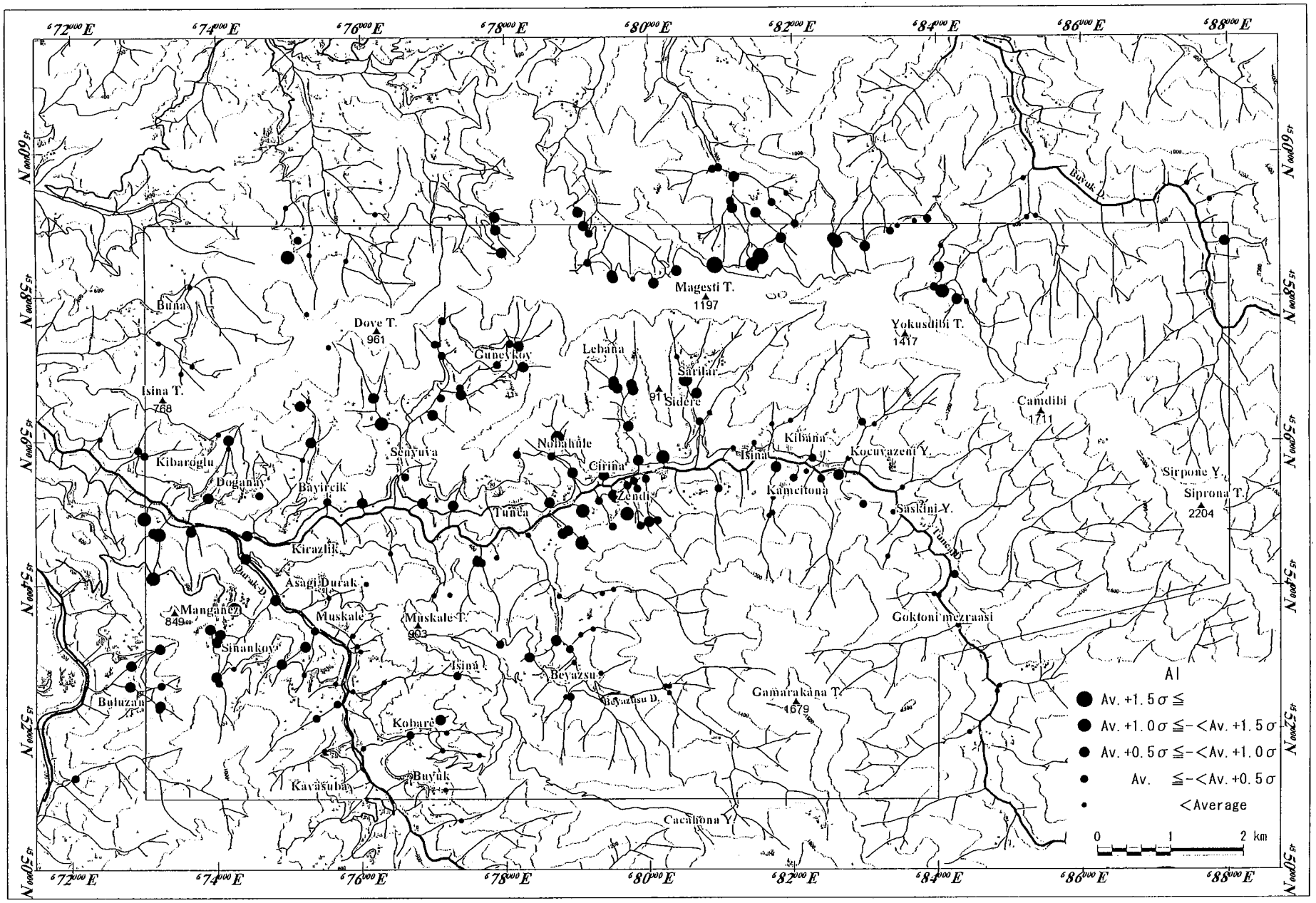
Distribution Map of Au by Stream Sediment Samples



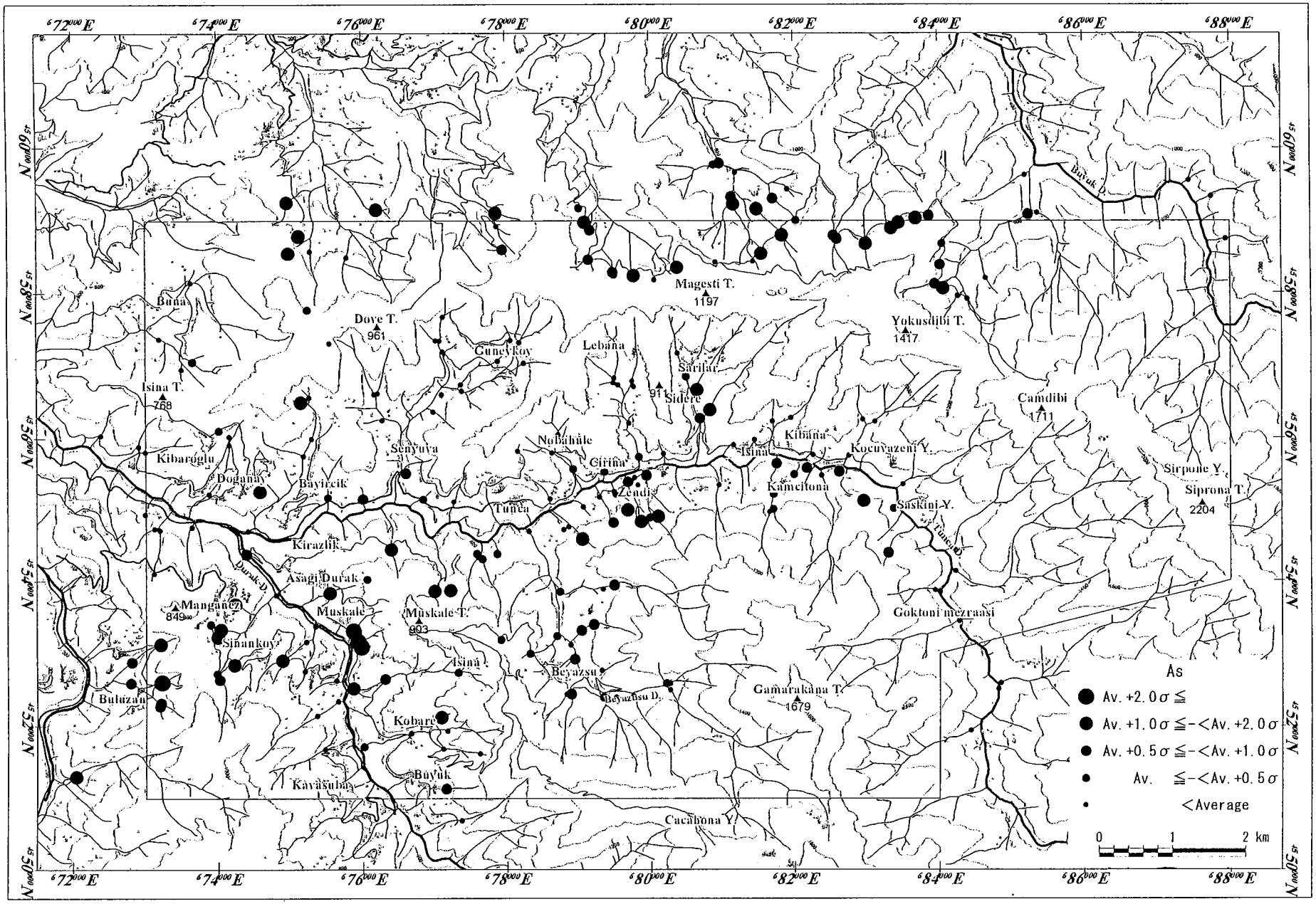
Appendix 6 Distribution Map of Au by Stream Sediment Samples



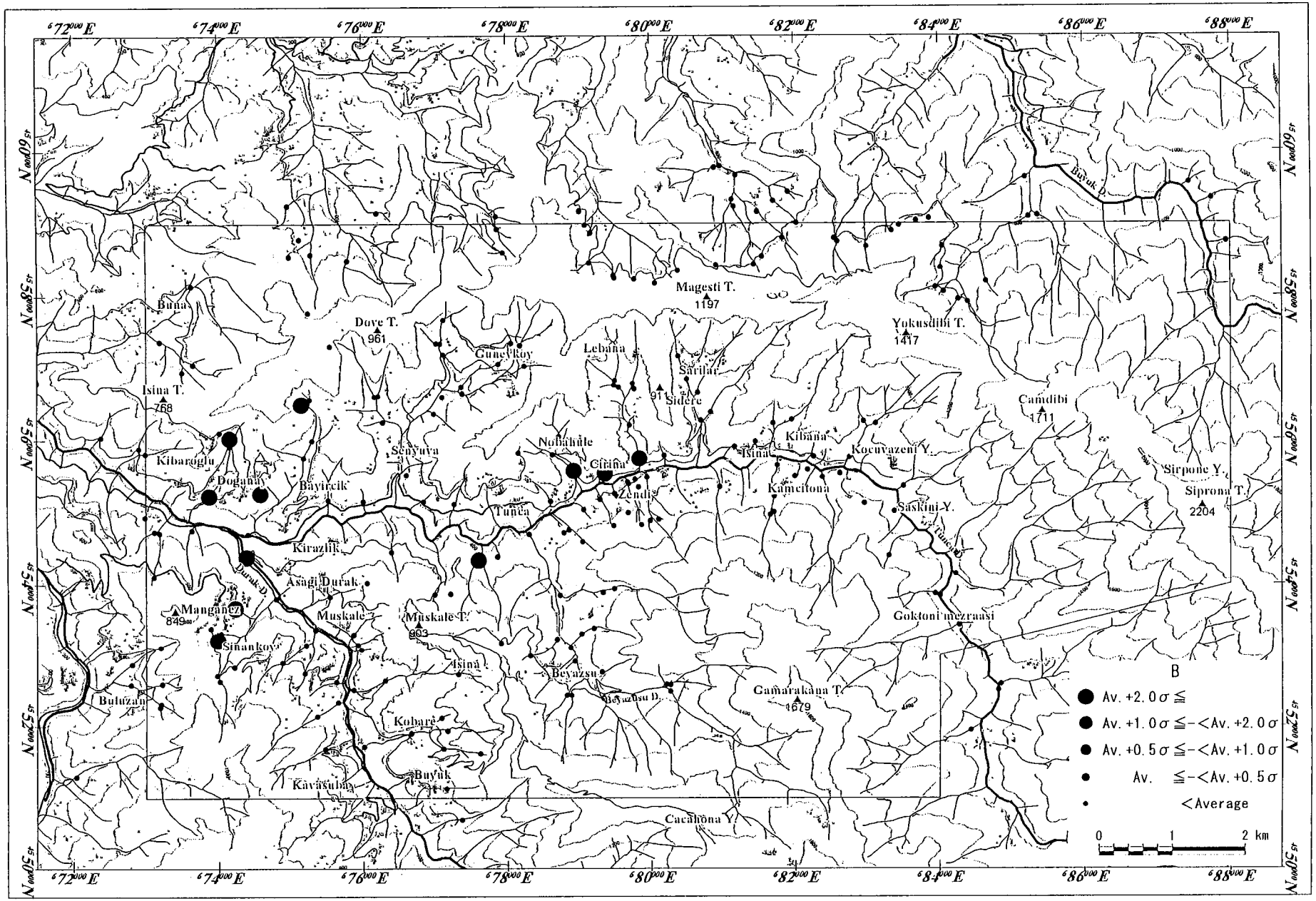
Appendix 6 Distribution Map of Ag by Stream Sediment Samples



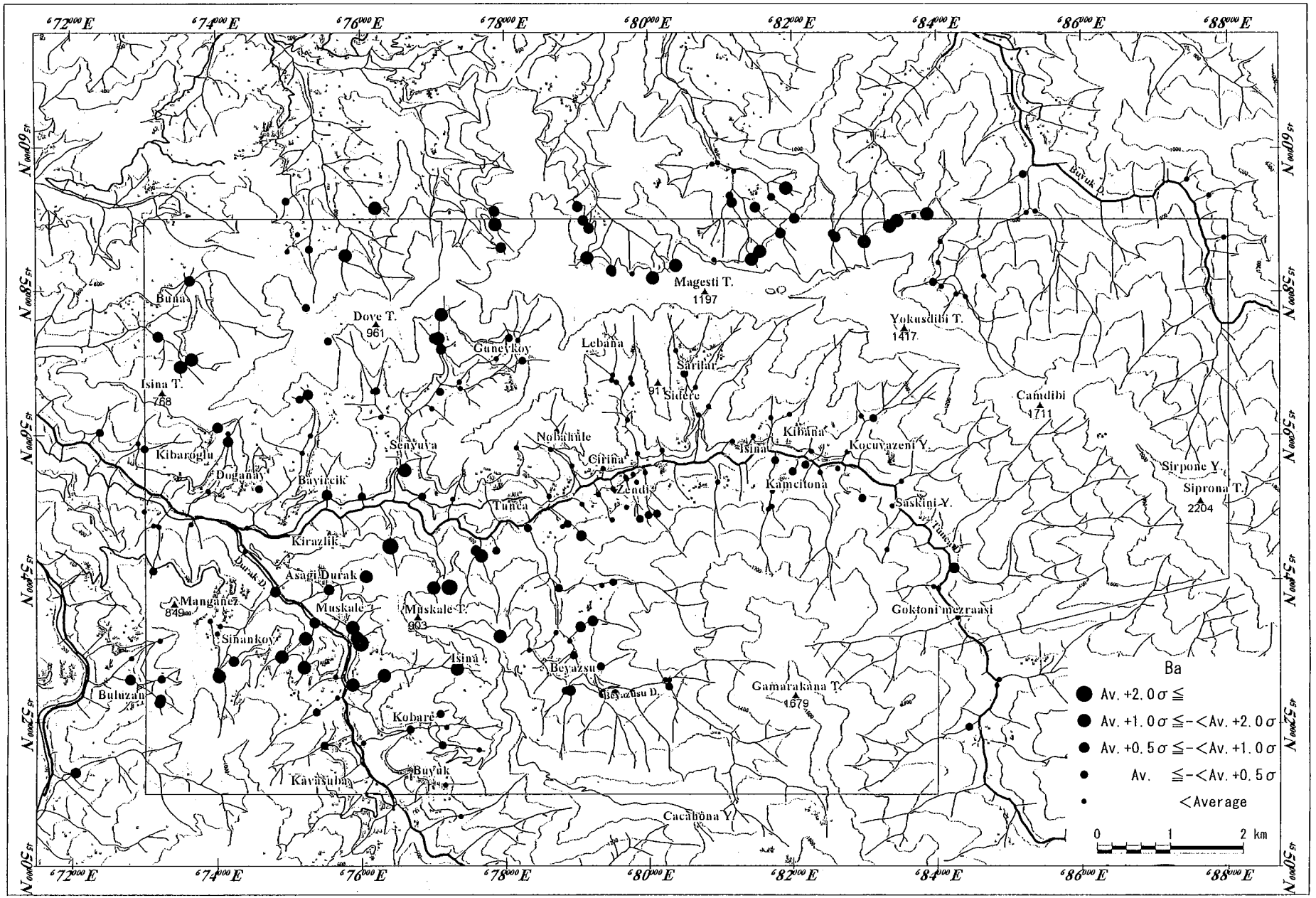
Appendix 6 Distribution Map of Al by Stream Sediment Samples



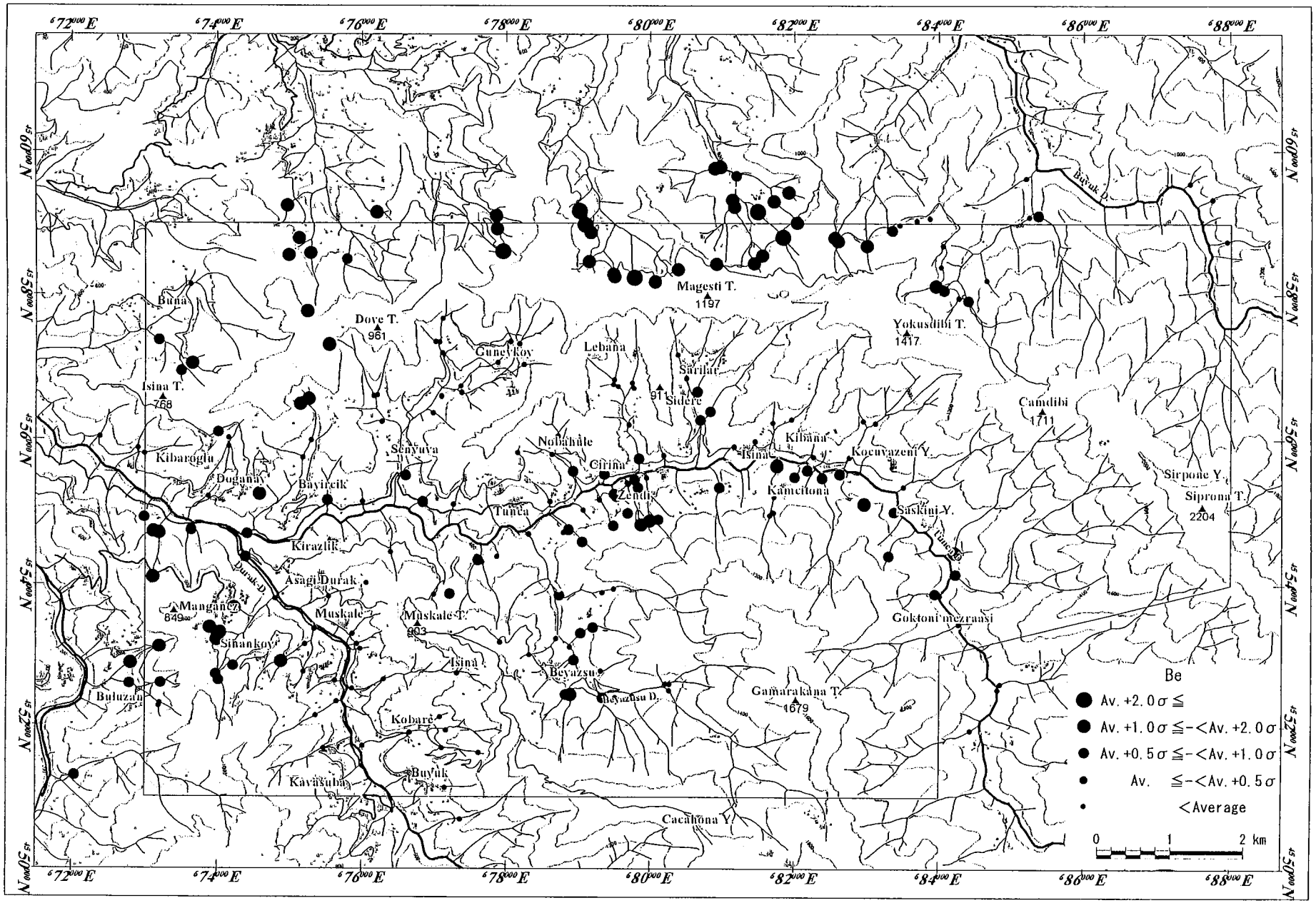
Appendix 6 Distribution Map of As by Stream Sediment Samples



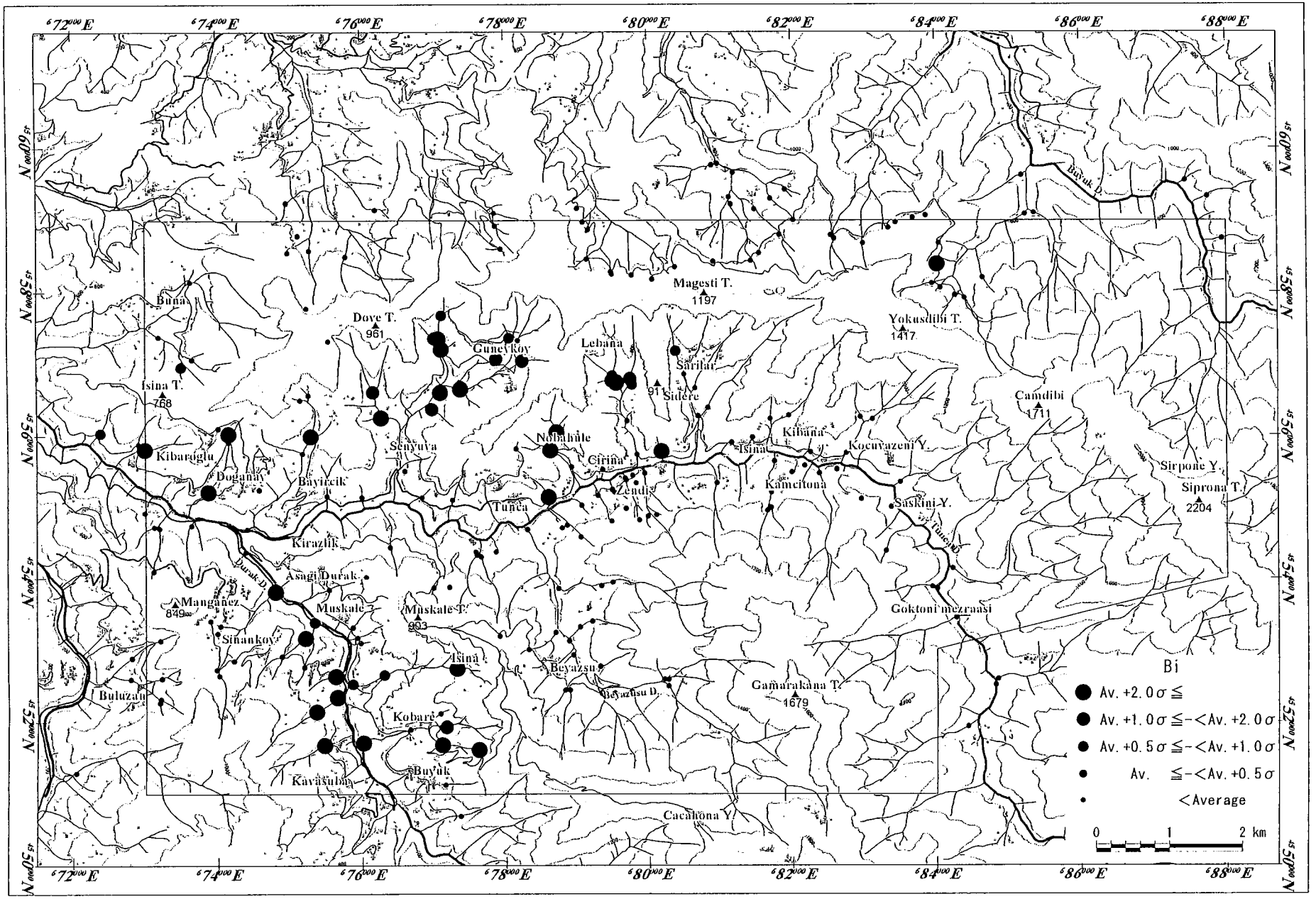
Appendix 6 Distribution Map of B by Stream Sediment Samples



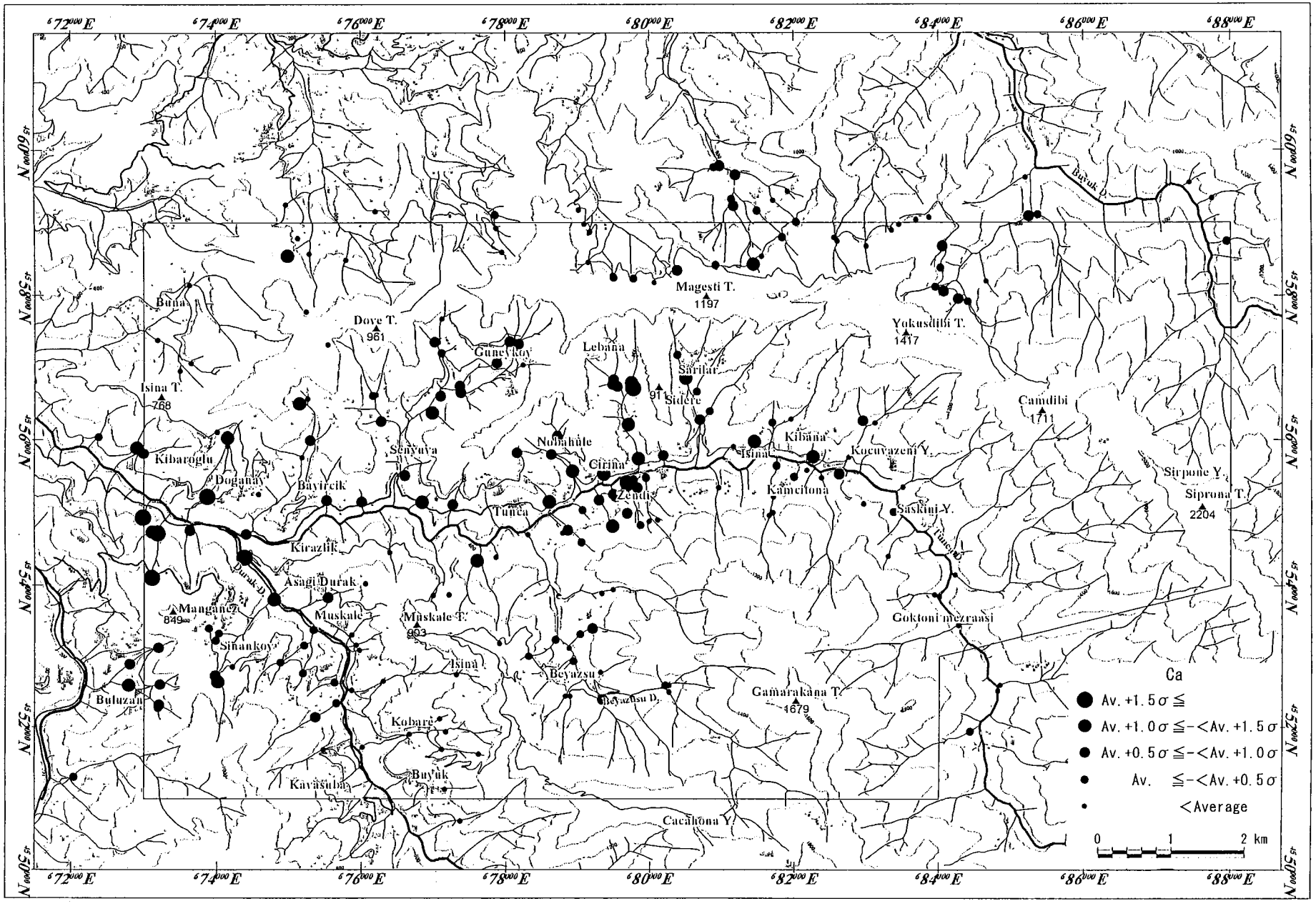
Appendix 6 Distribution Map of Ba by Stream Sediment Samples



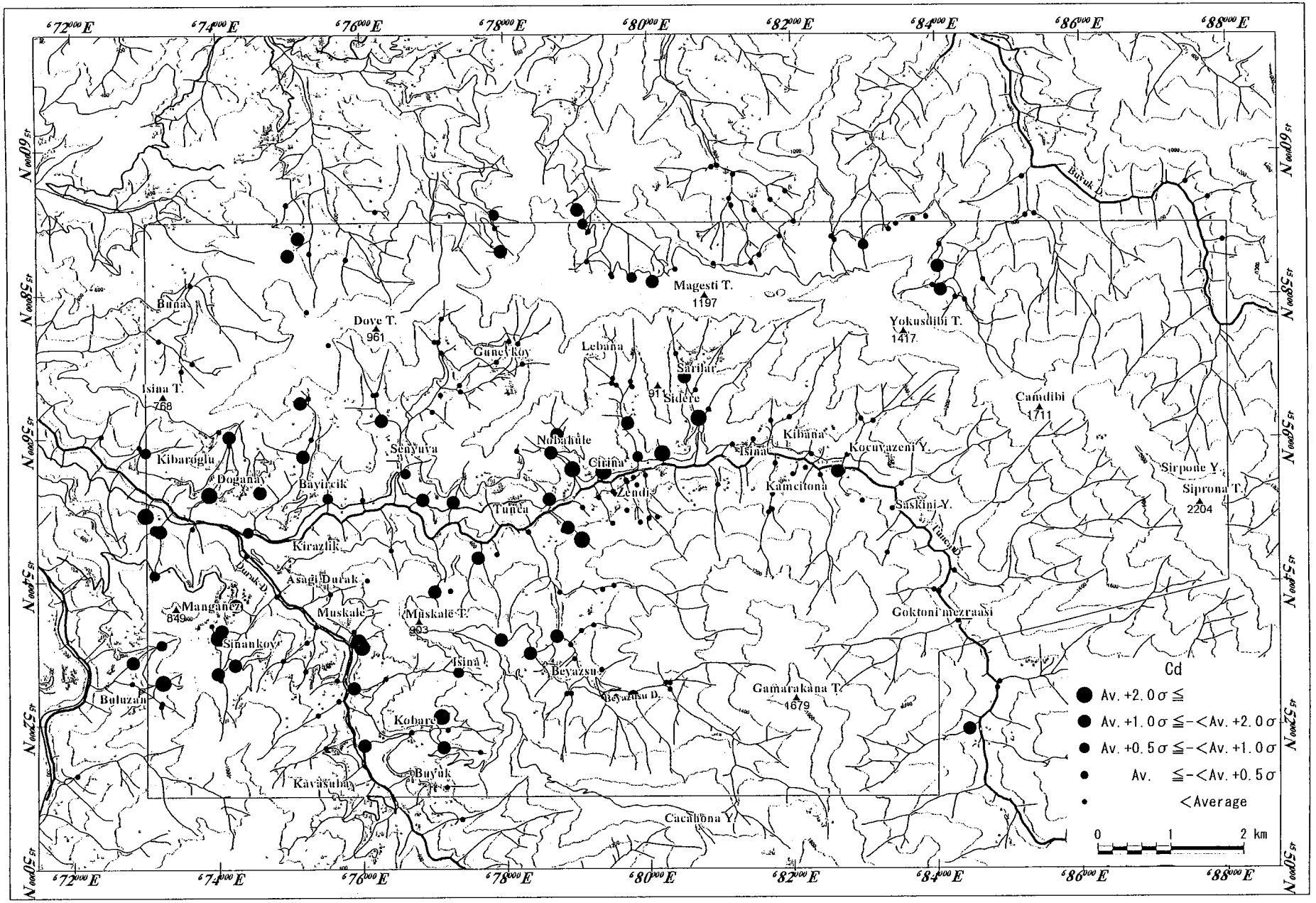
Appendix 6 Distribution Map of Be by Stream Sediment Samples



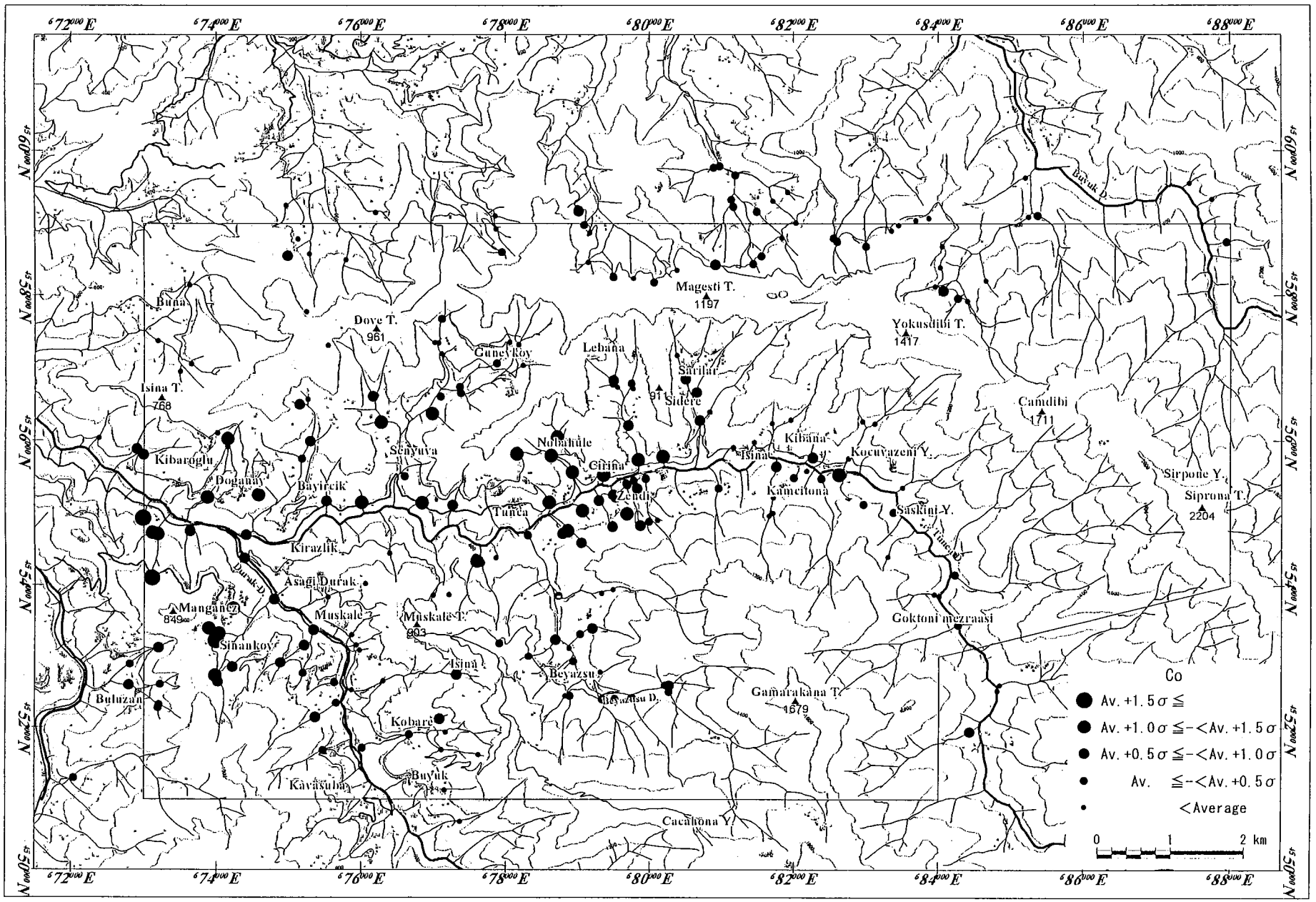
Appendix 6 Distribution Map of Bi by Stream Sediment Samples



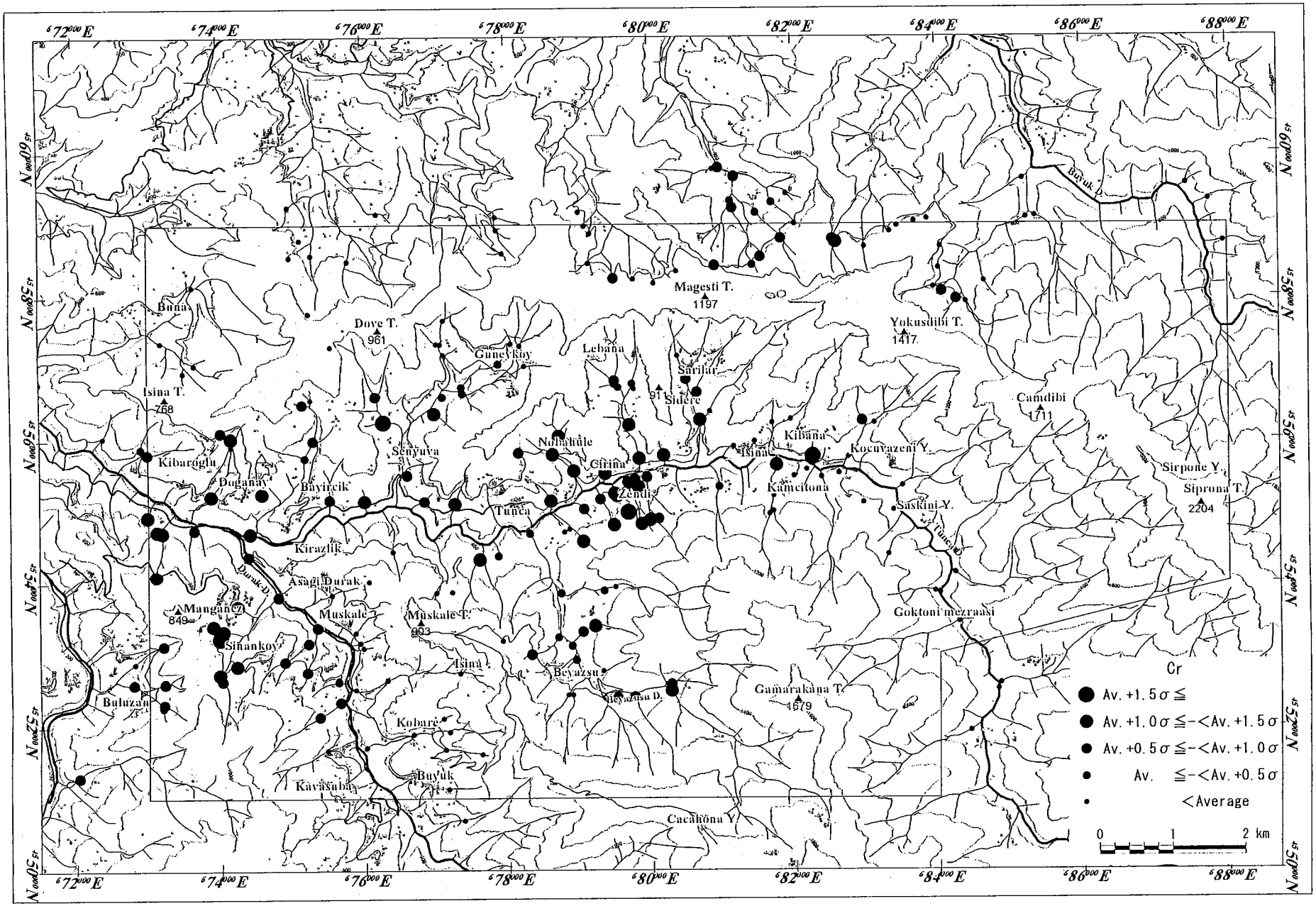
Appendix 6 Distribution Map of Ca by Stream Sediment Samples



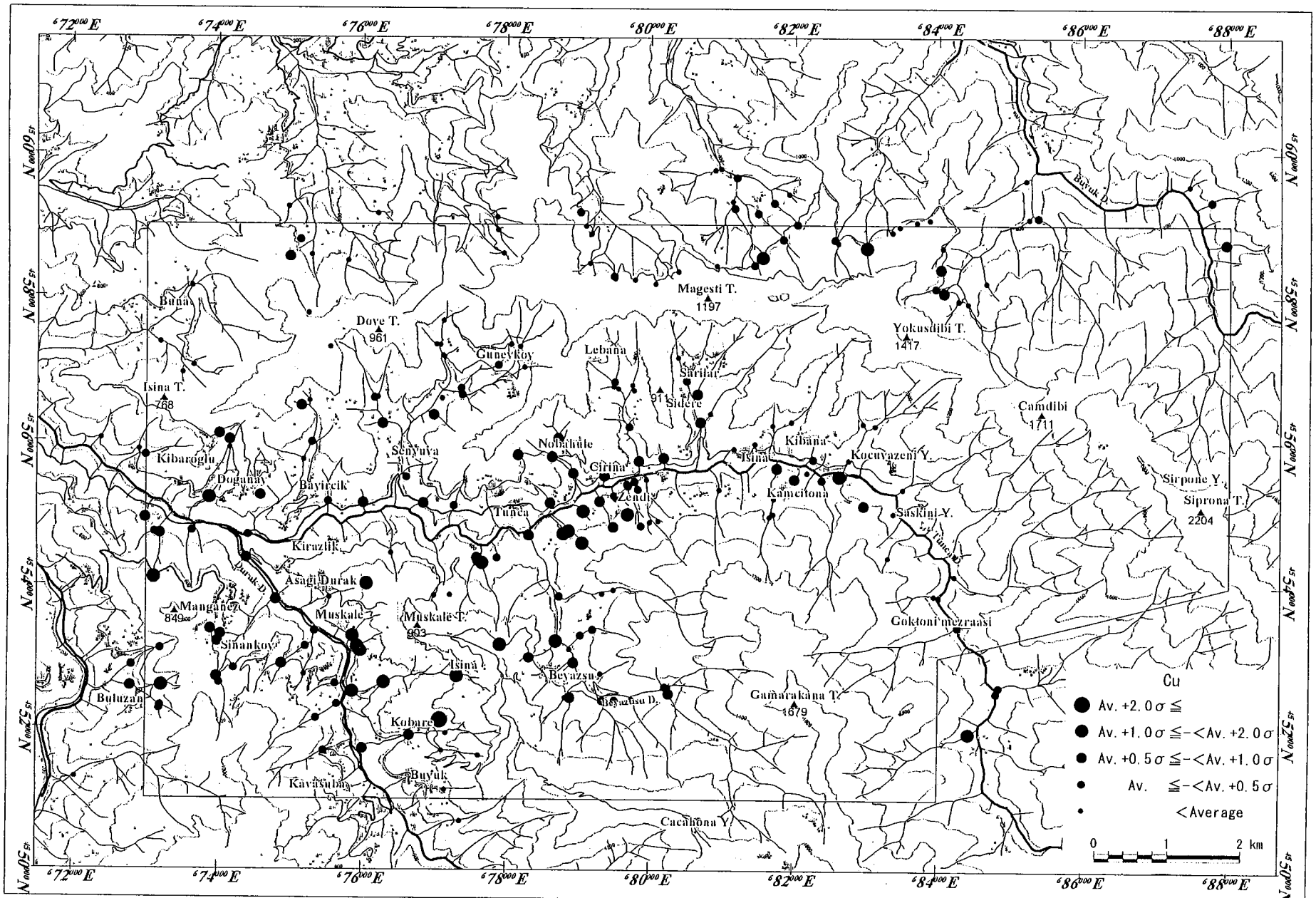
Appendix 6 Distribution Map of Cd by Stream Sediment Samples



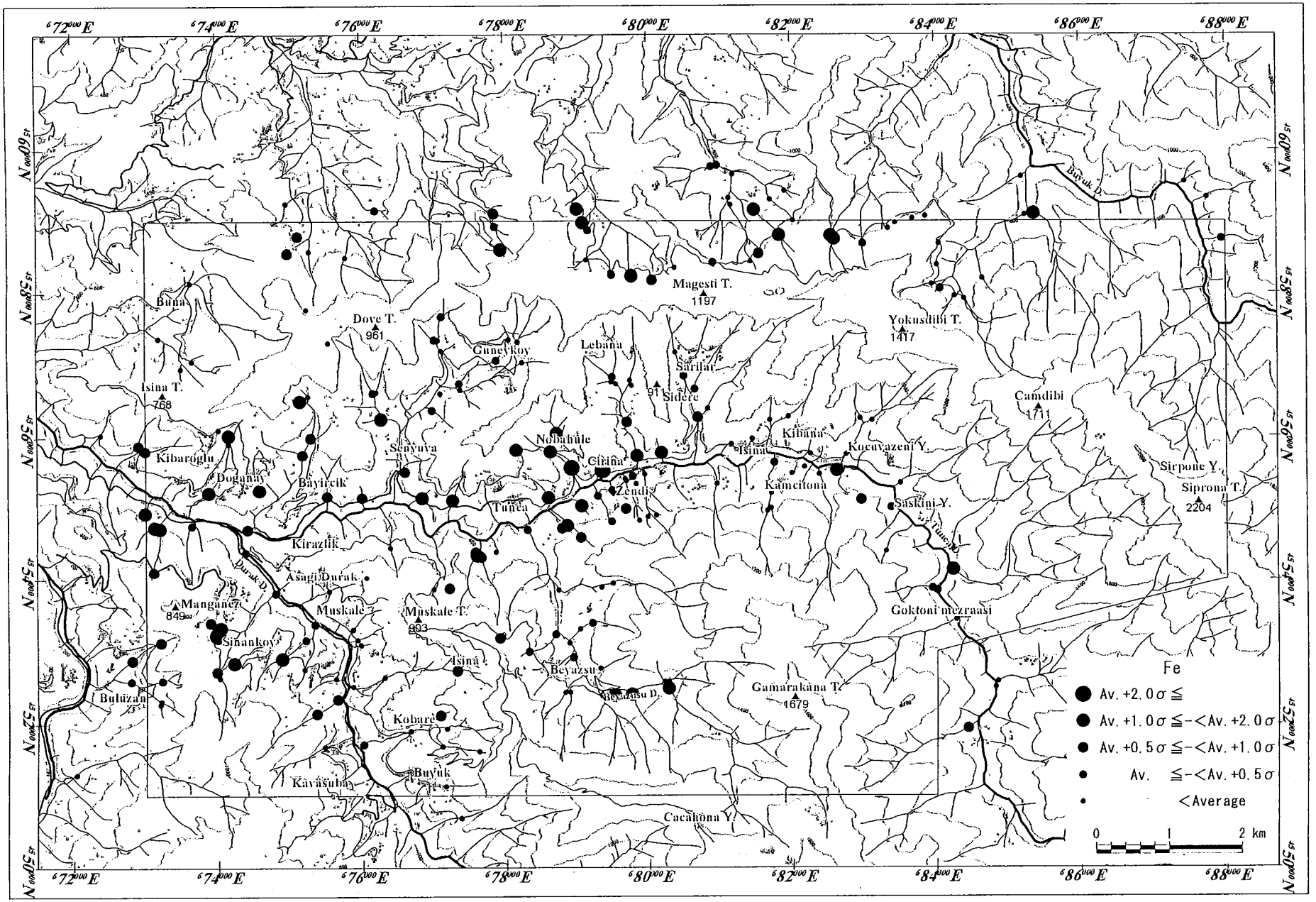
Appendix 6 Distribution Map of Co by Stream Sediment Samples



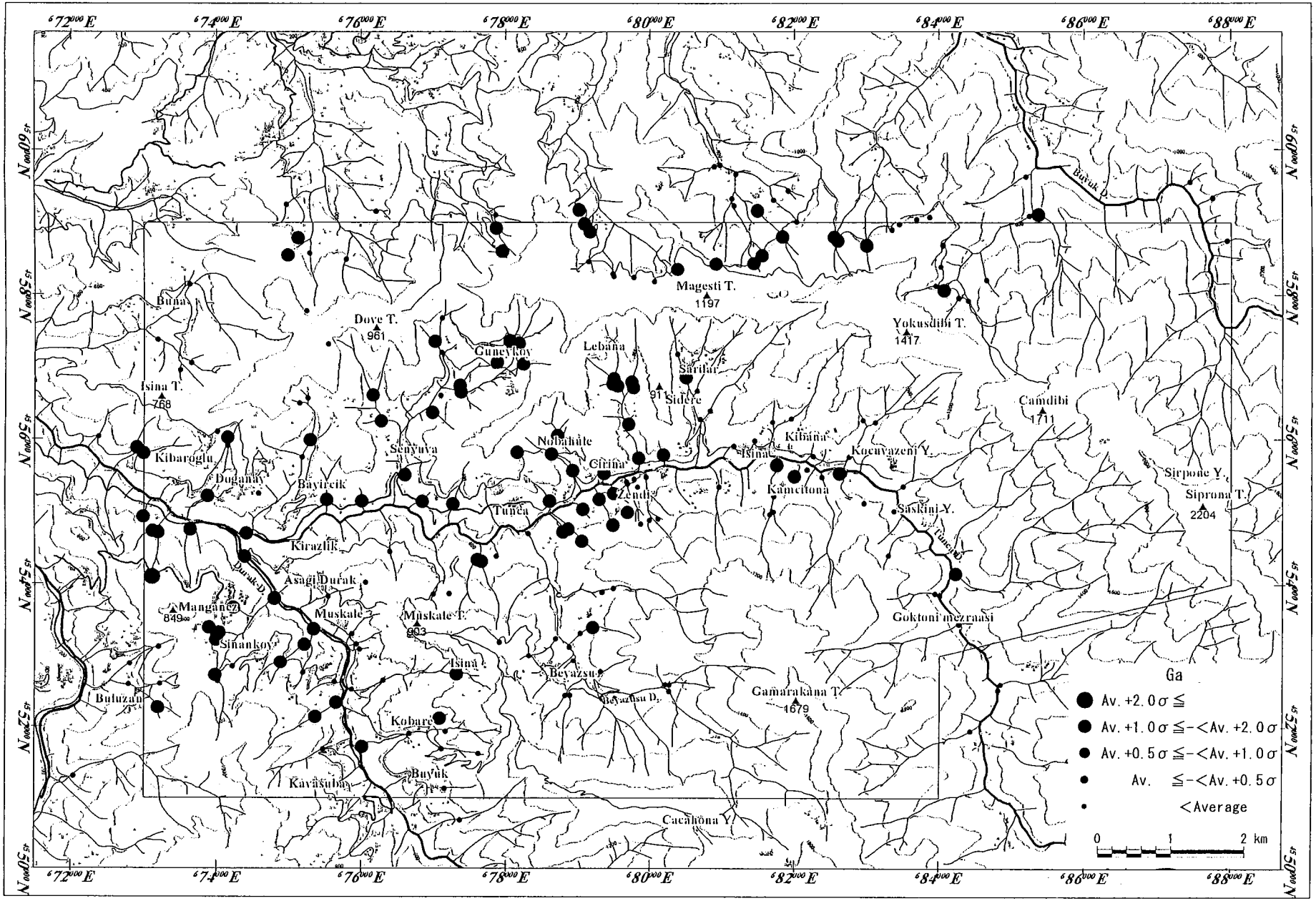
Appendix 6 Distribution Map of Cr by Stream Sediment Samples



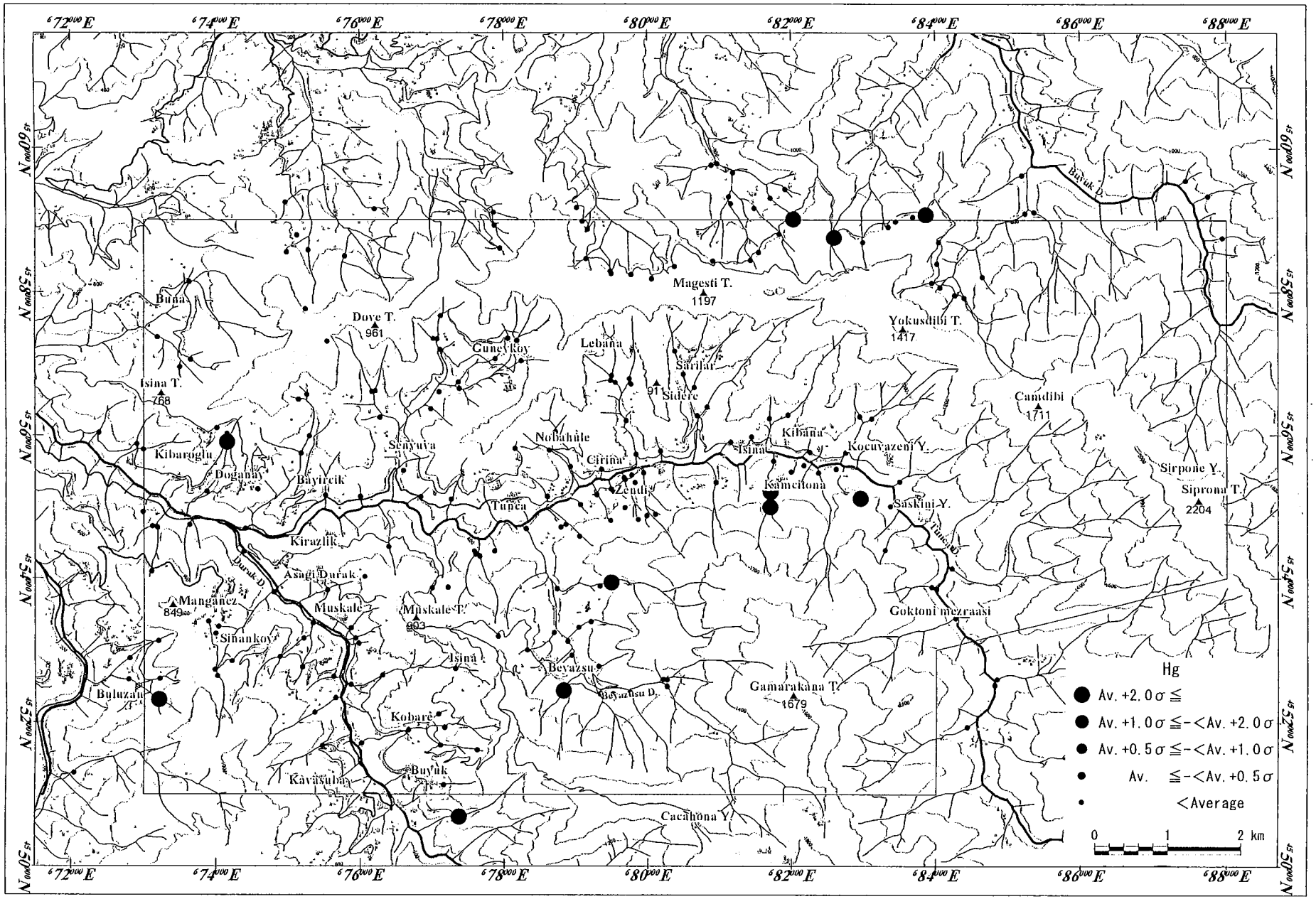
Appendix 6 Distribution Map of Cu by Stream Sediment Samples



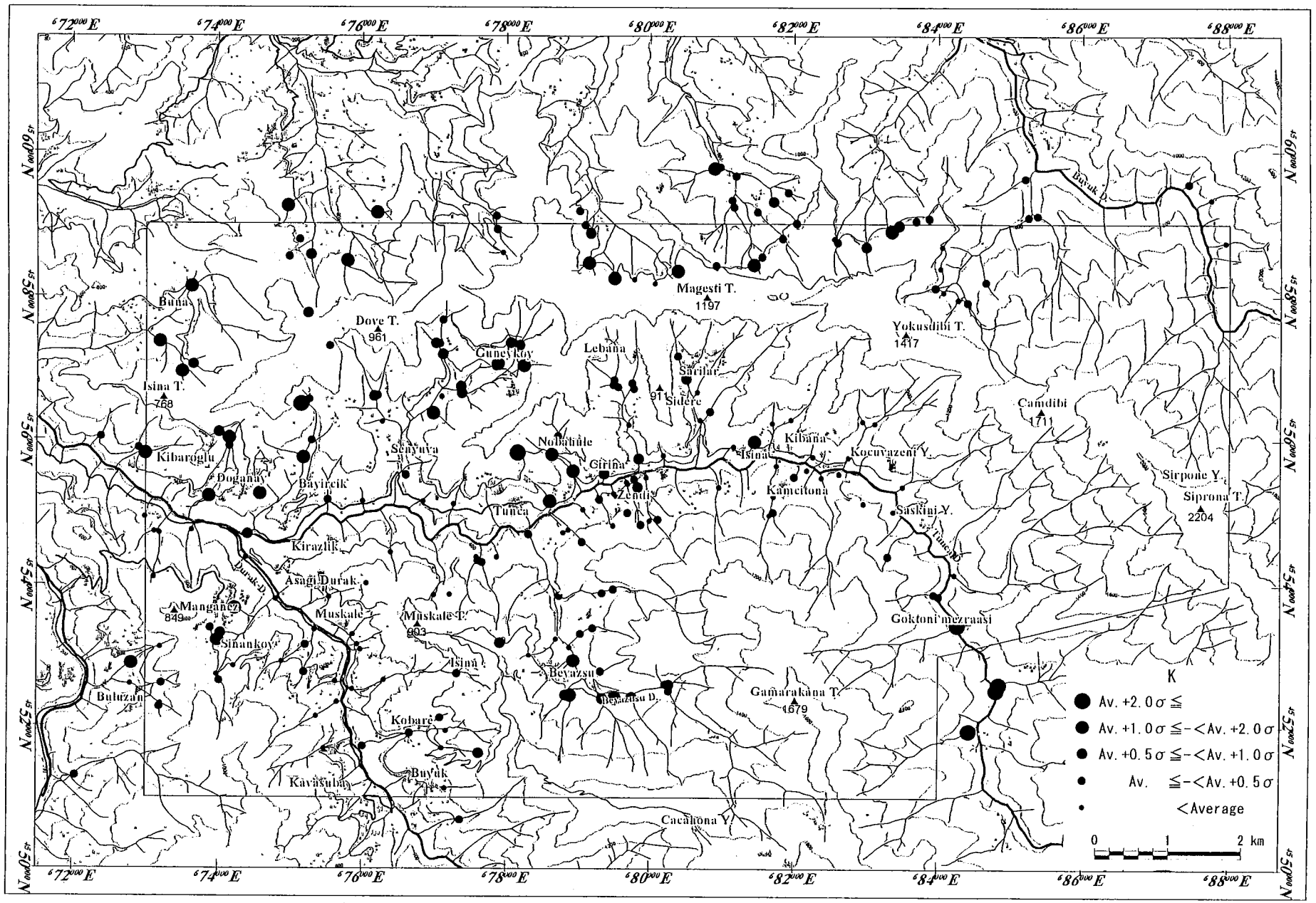
Appendix 6 Distribution Map of Fe by Stream Sediment Samples



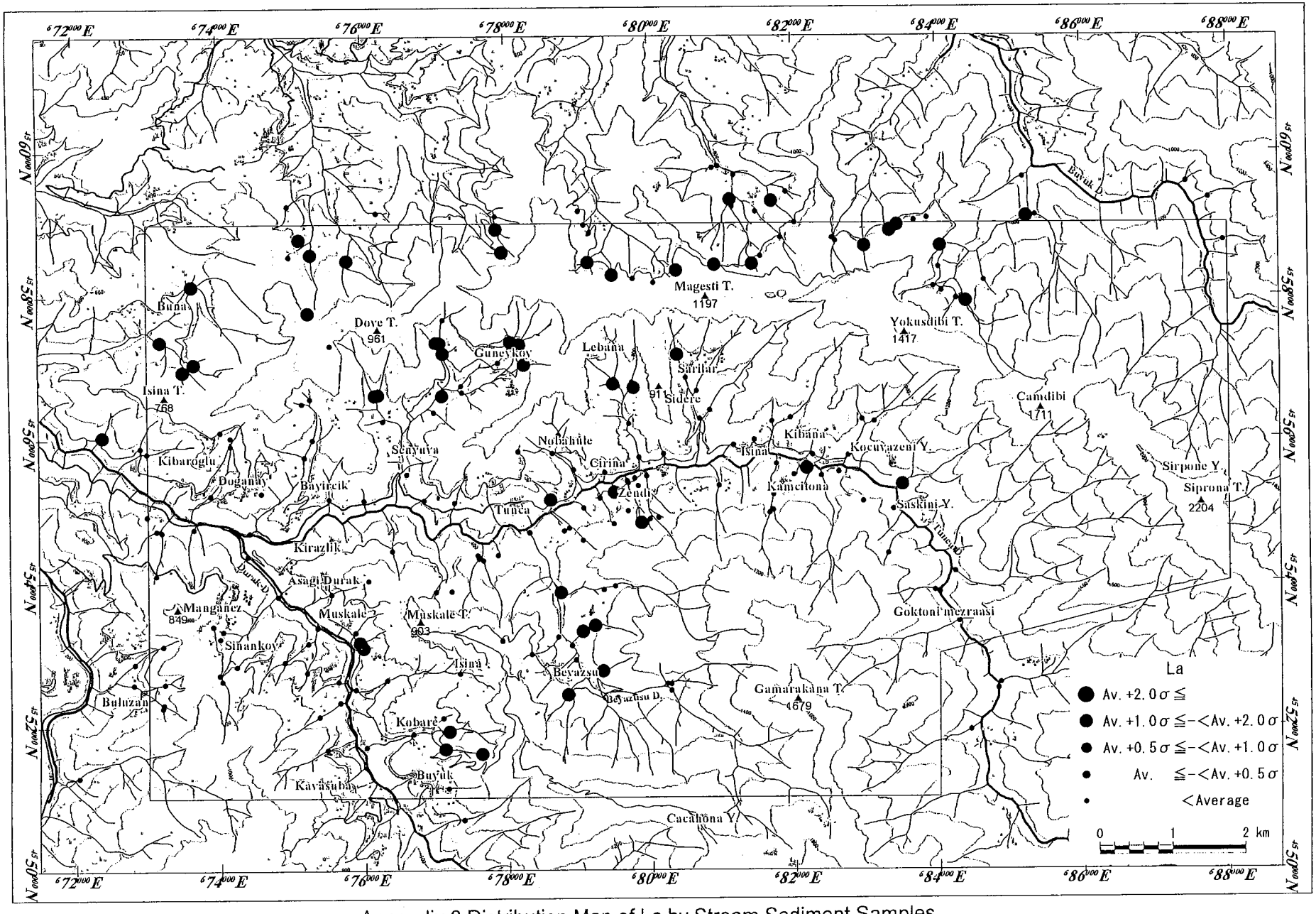
Appendix 6 Distribution Map of Ga by Stream Sediment Samples



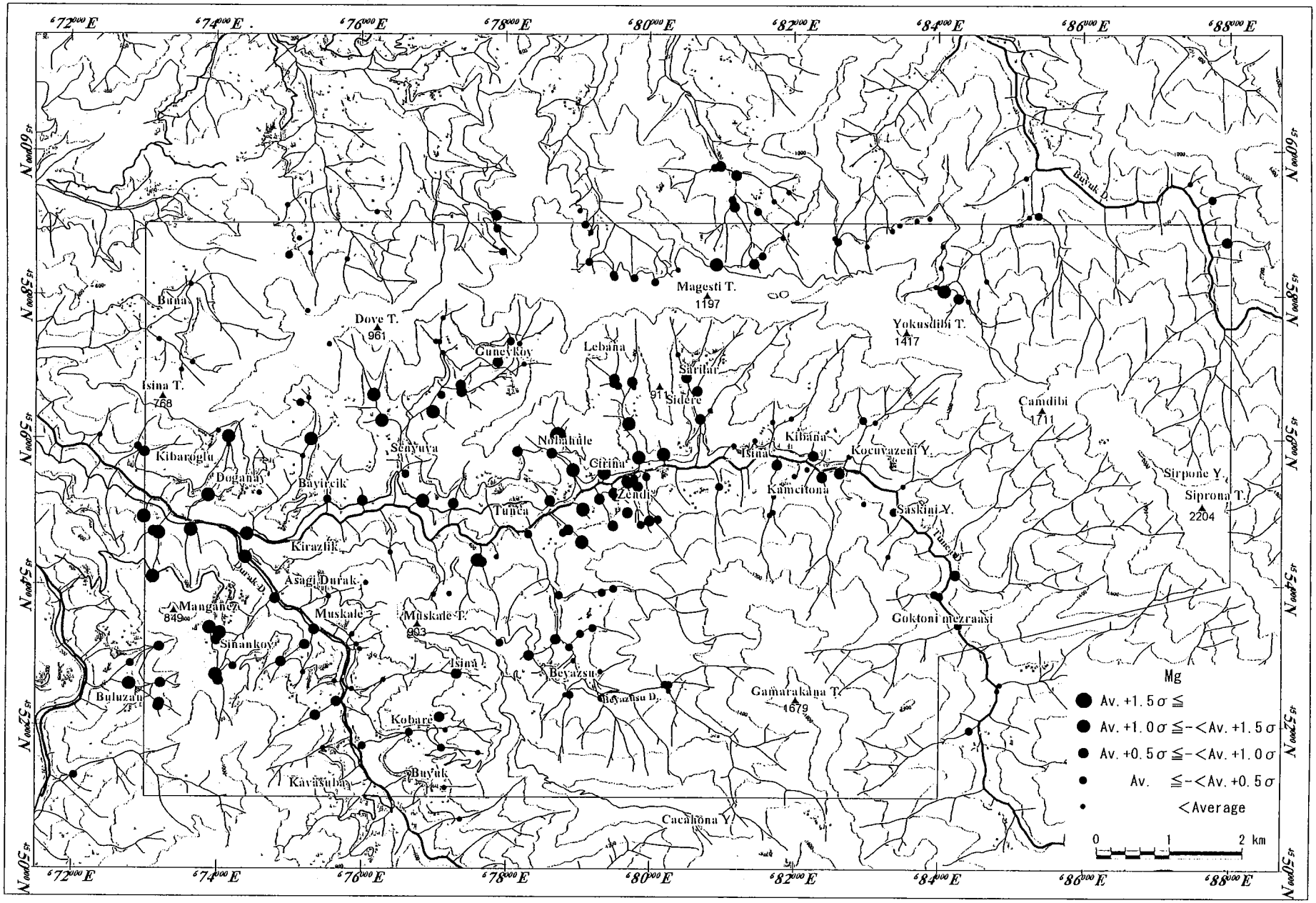
Appendix 6 Distribution Map of Hg by Stream Sediment Samples



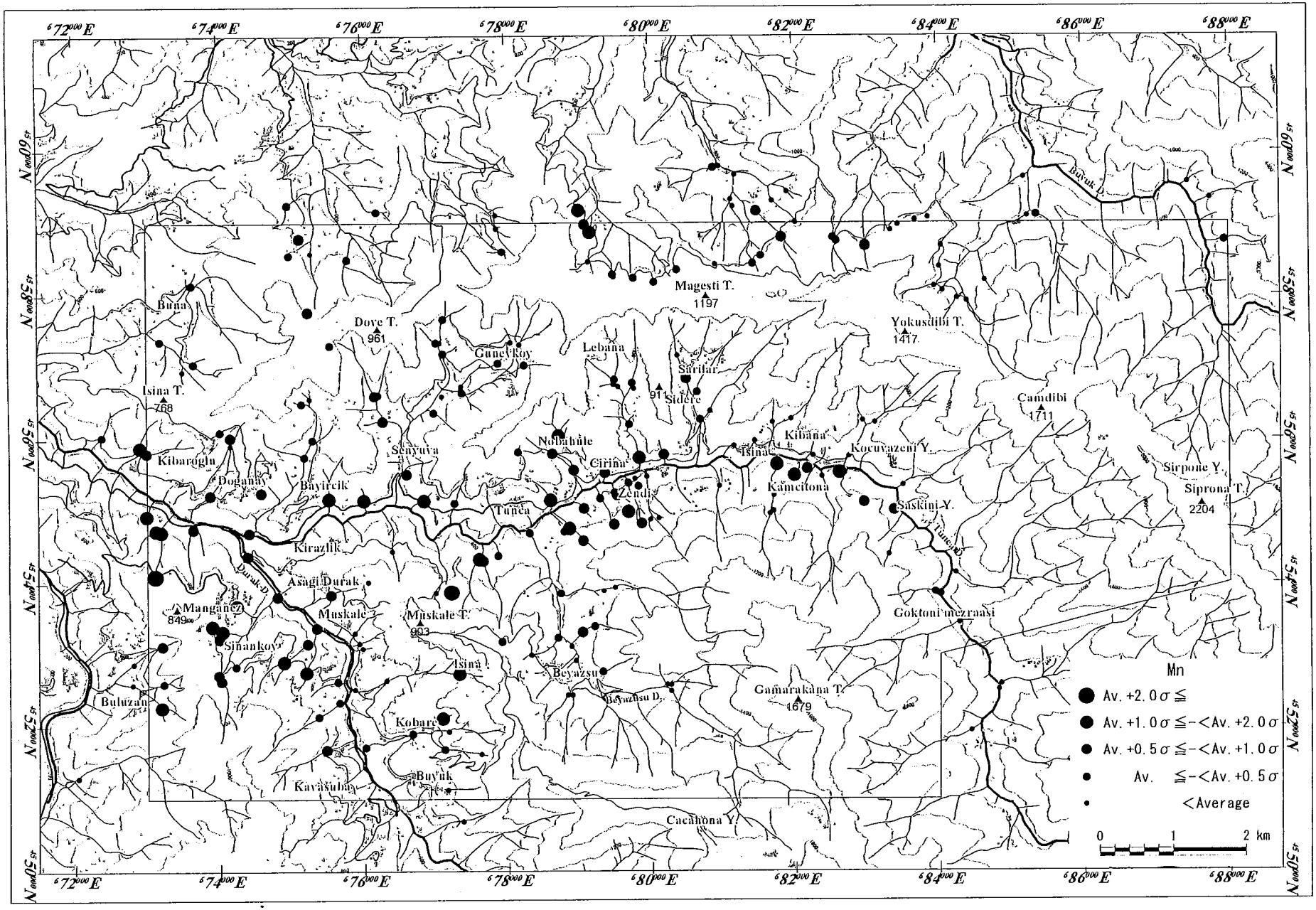
Appendix 6 Distribution Map of K by Stream Sediment Samples



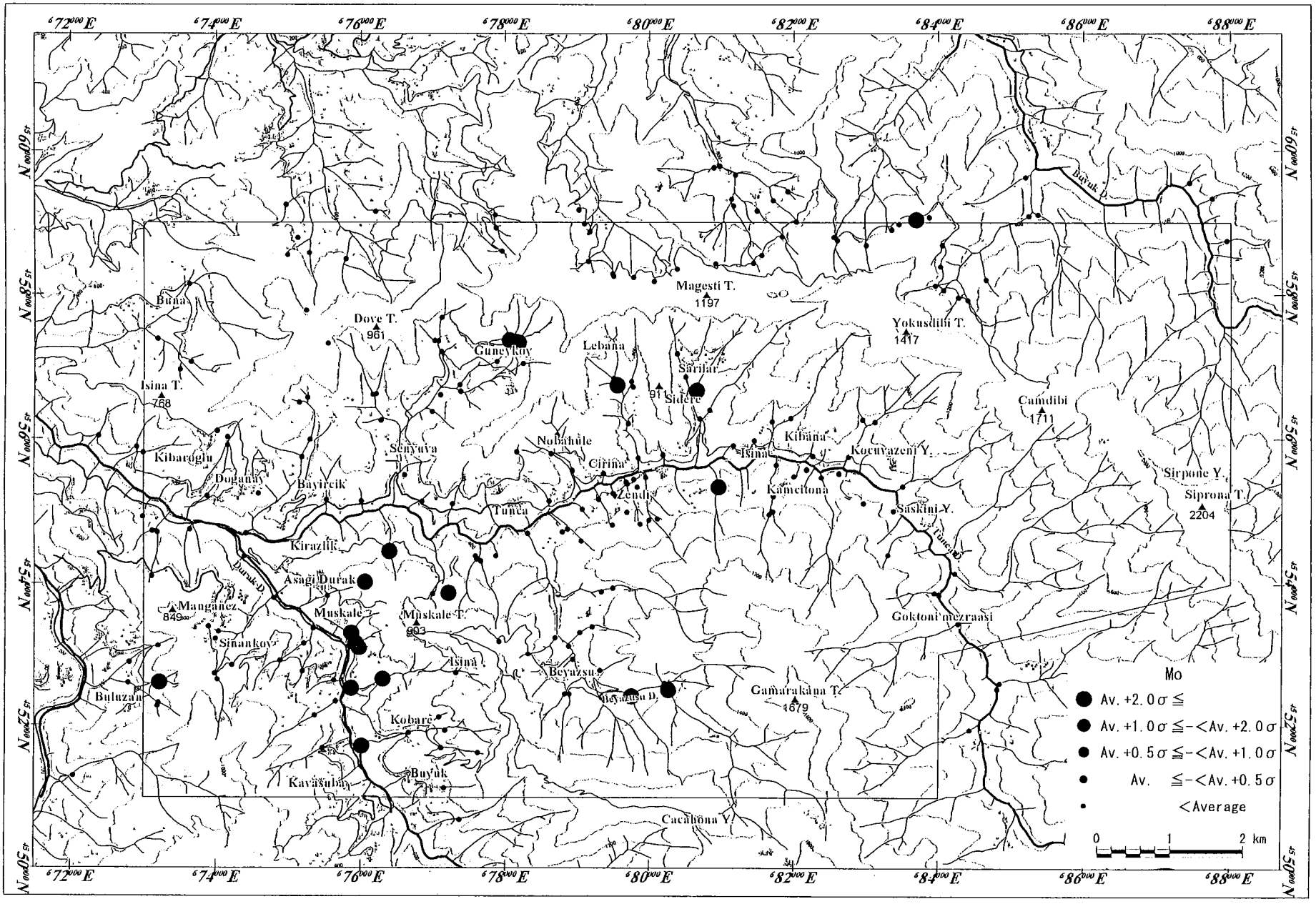
Appendix 6 Distribution Map of La by Stream Sediment Samples



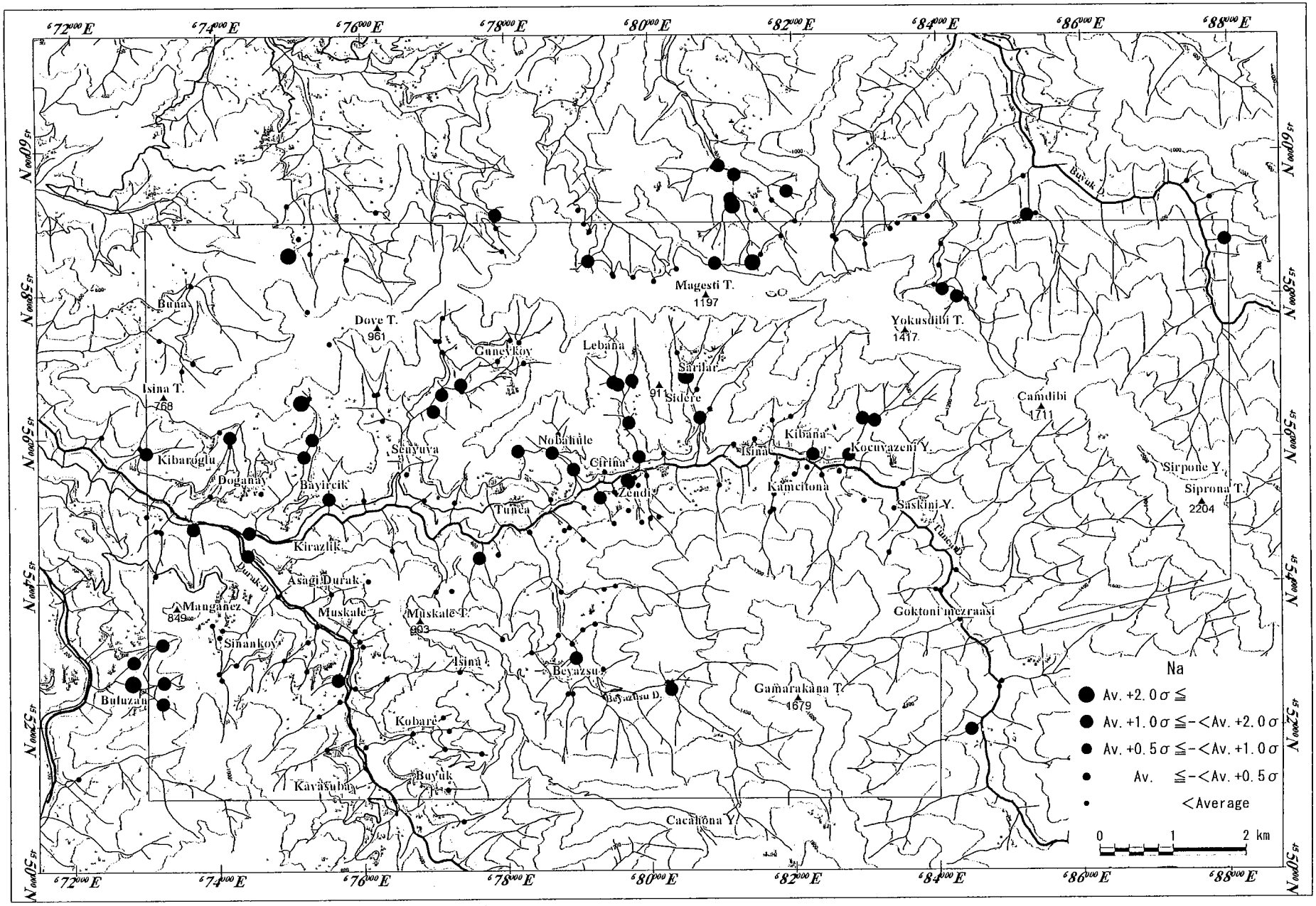
Appendix 6 Distribution Map of Mg by Stream Sediment Samples



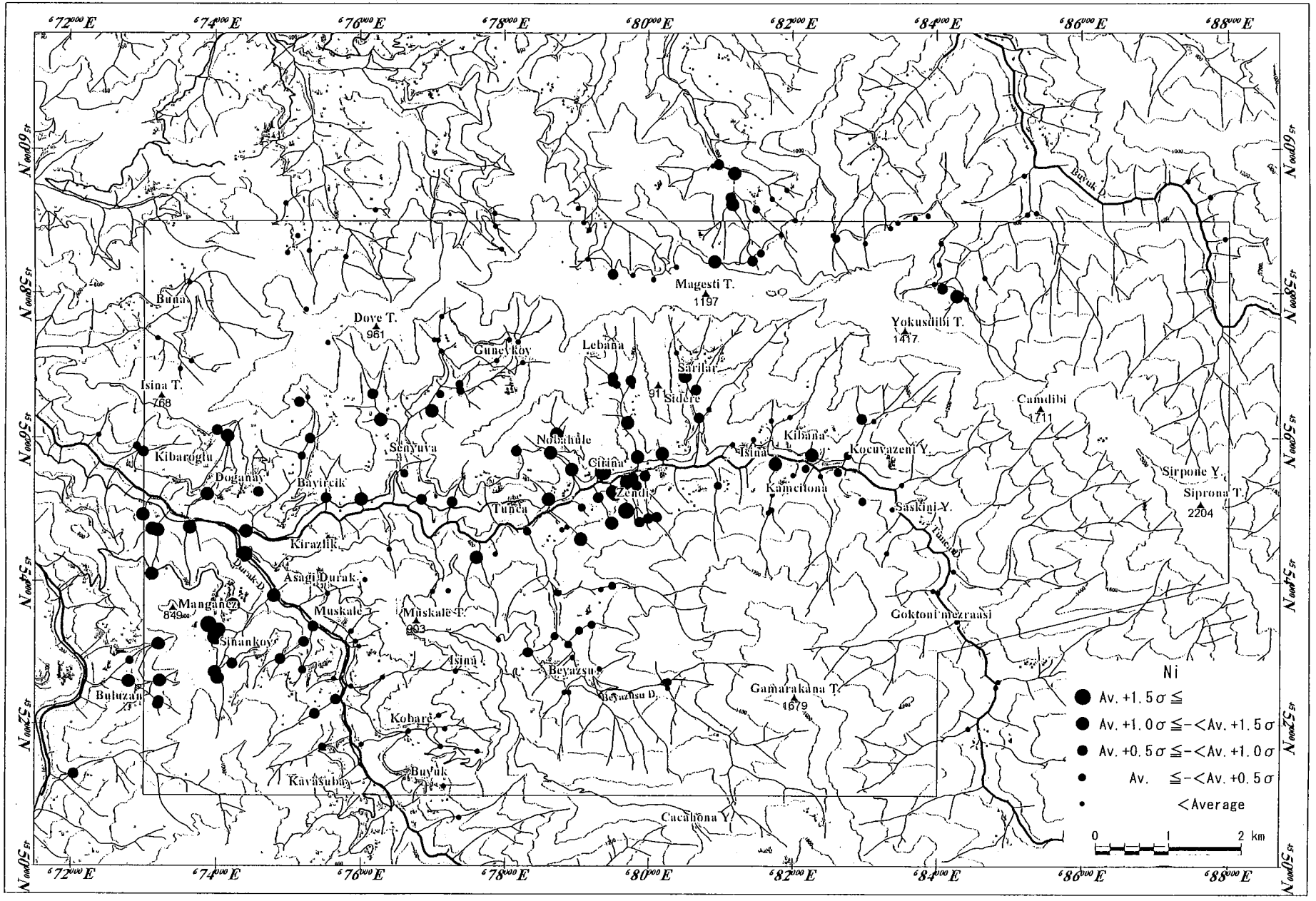
Appendix 6 Distribution Map of Mn by Stream Sediment Samples



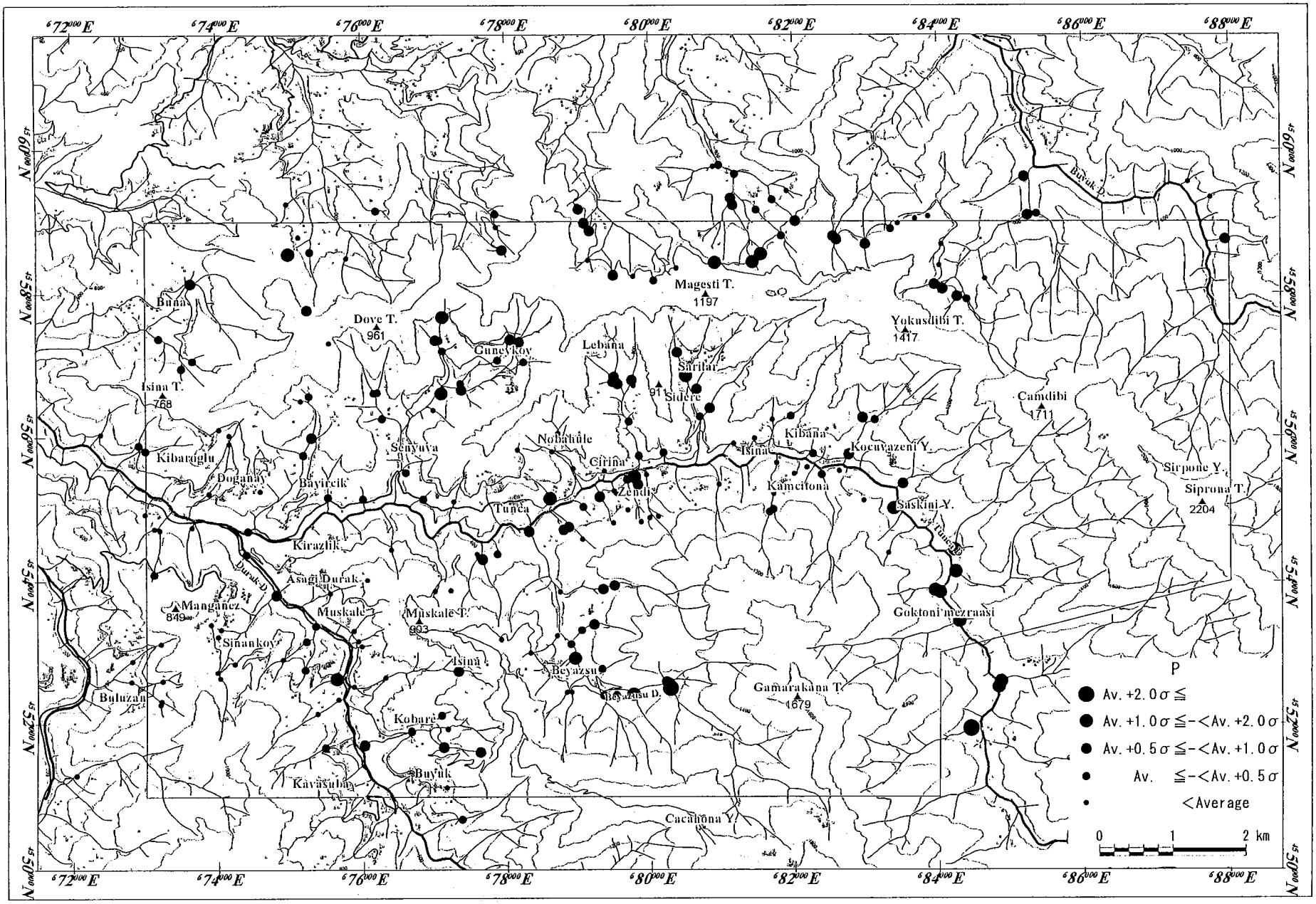
Appendix 6 Distribution Map of Mo by Stream Sediment Samples



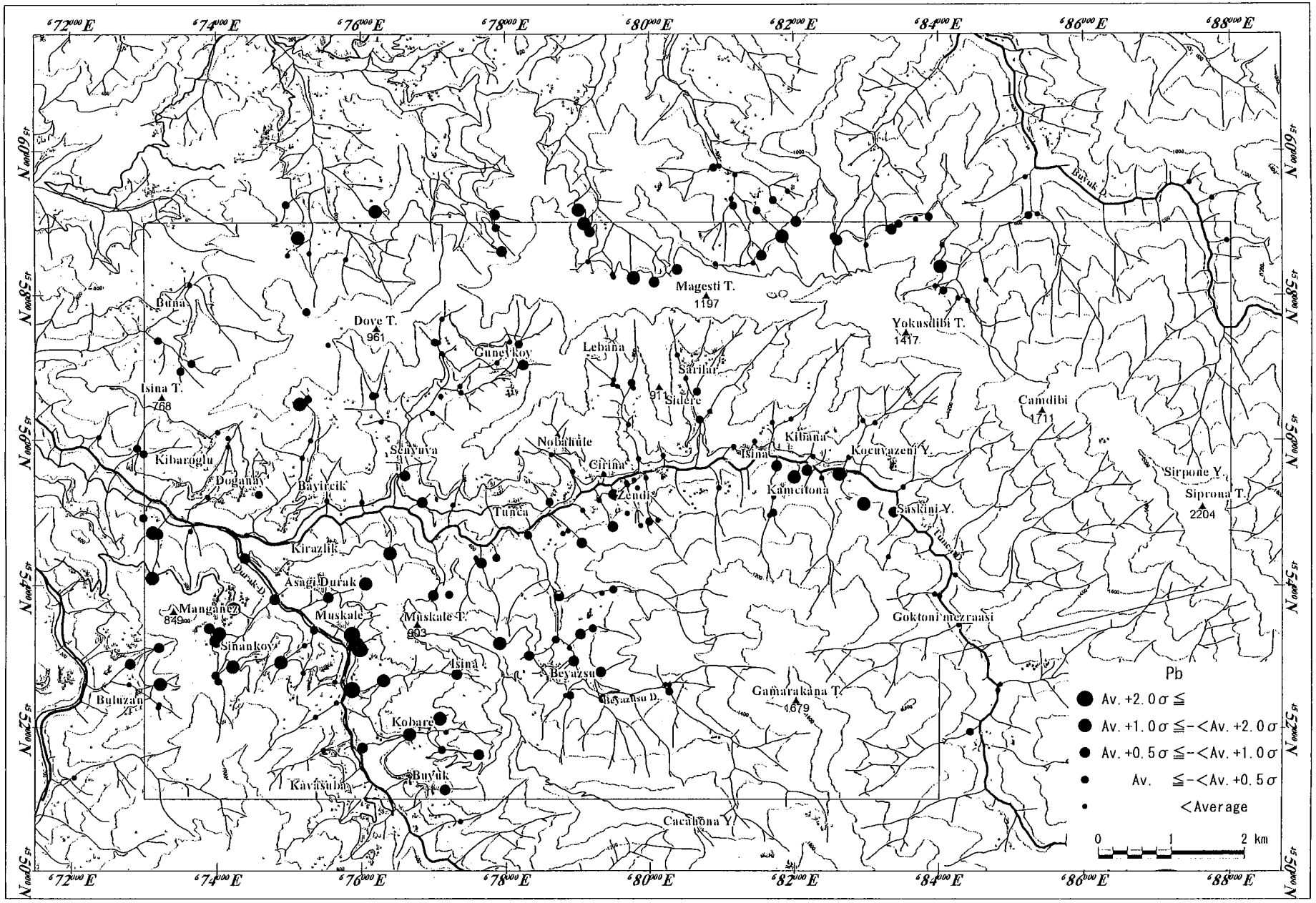
Appendix 6 Distribution Map of Na by Stream Sediment Samples



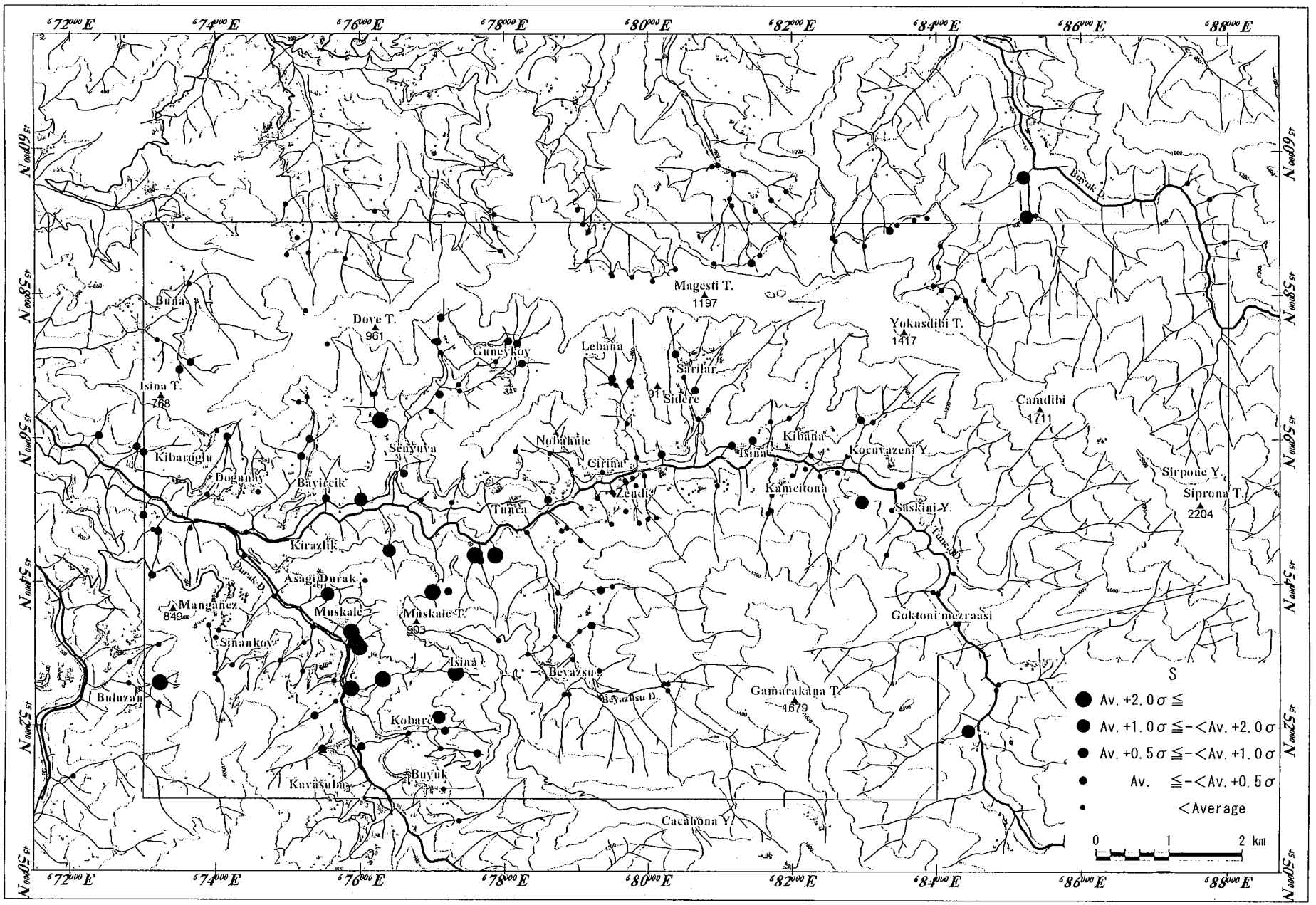
Appendix 6 Distribution Map of Ni by Stream Sediment Samples



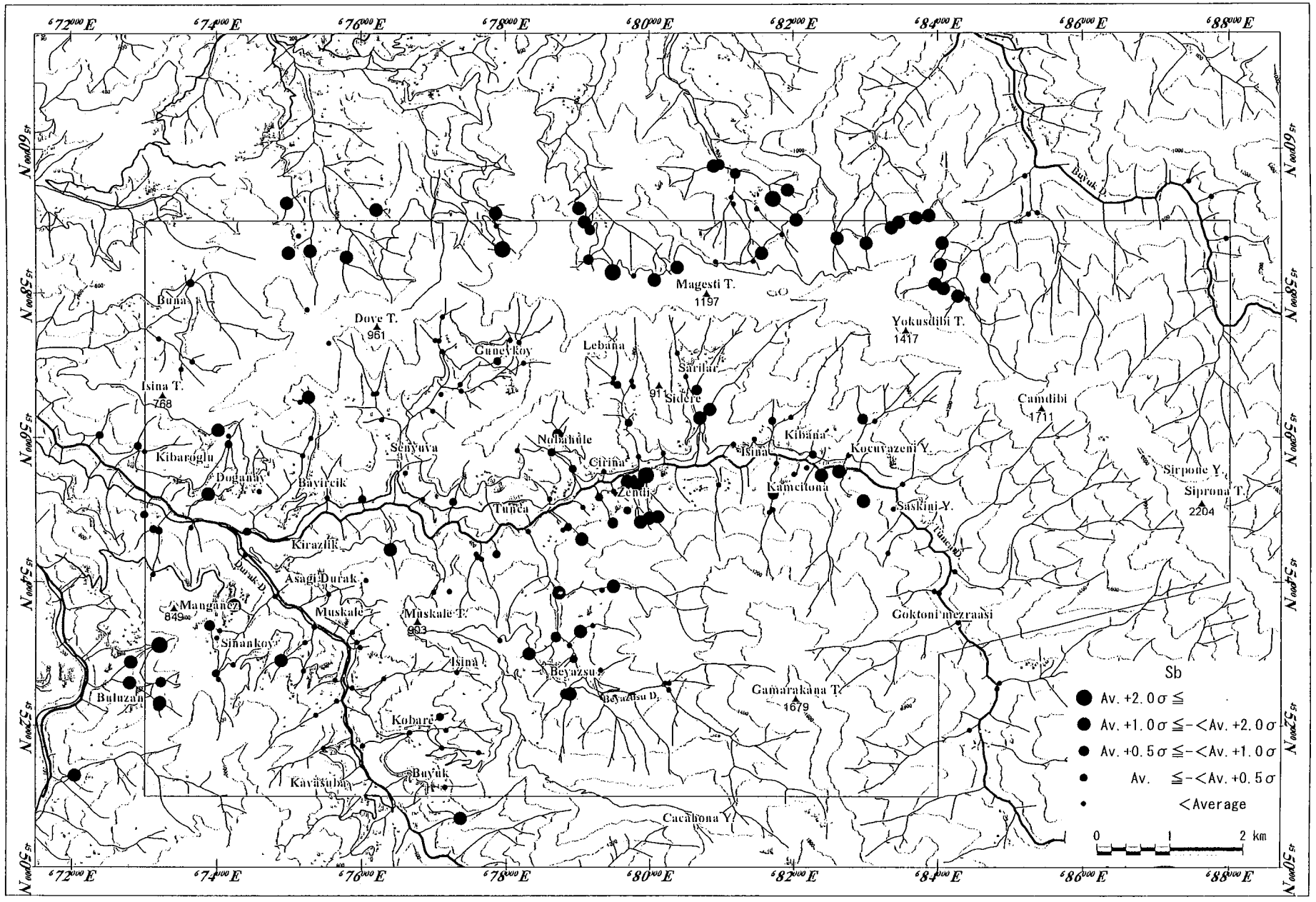
Appendix 6 Distribution Map of P by Stream Sediment Samples



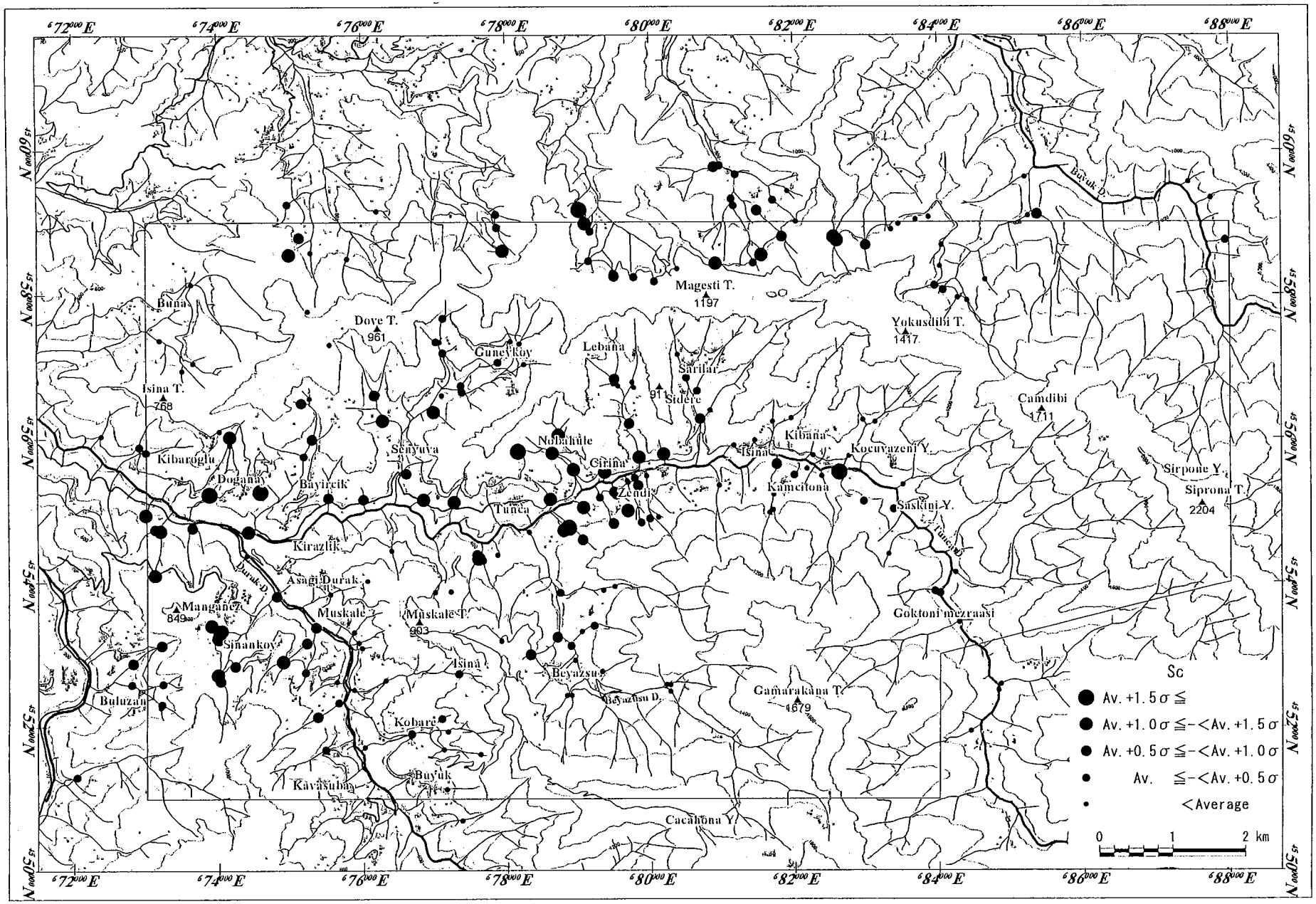
Appendix 6 Distribution Map of Pb by Stream Sediment Samples



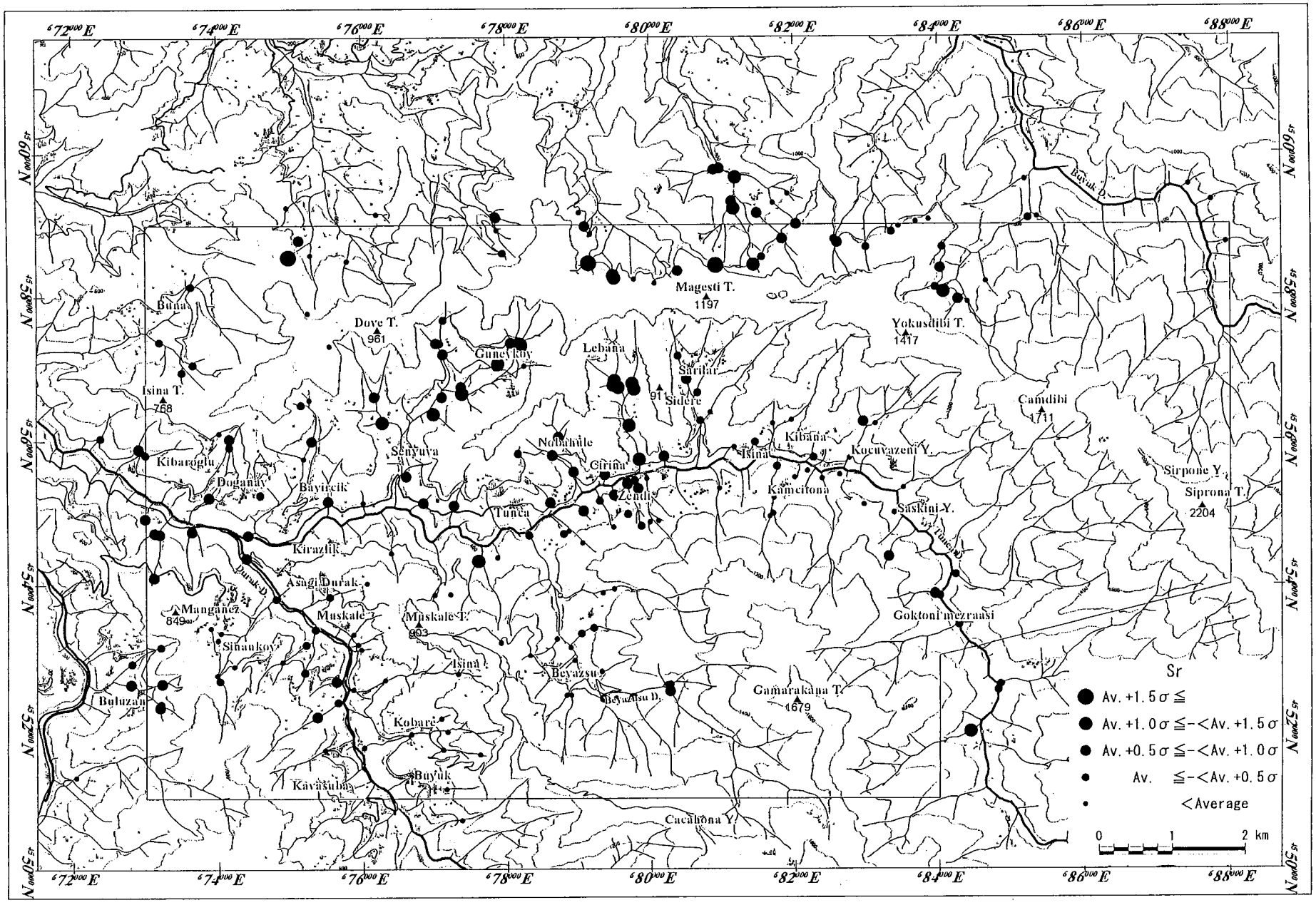
Appendix 6 Distribution Map of S by Stream Sediment Samples



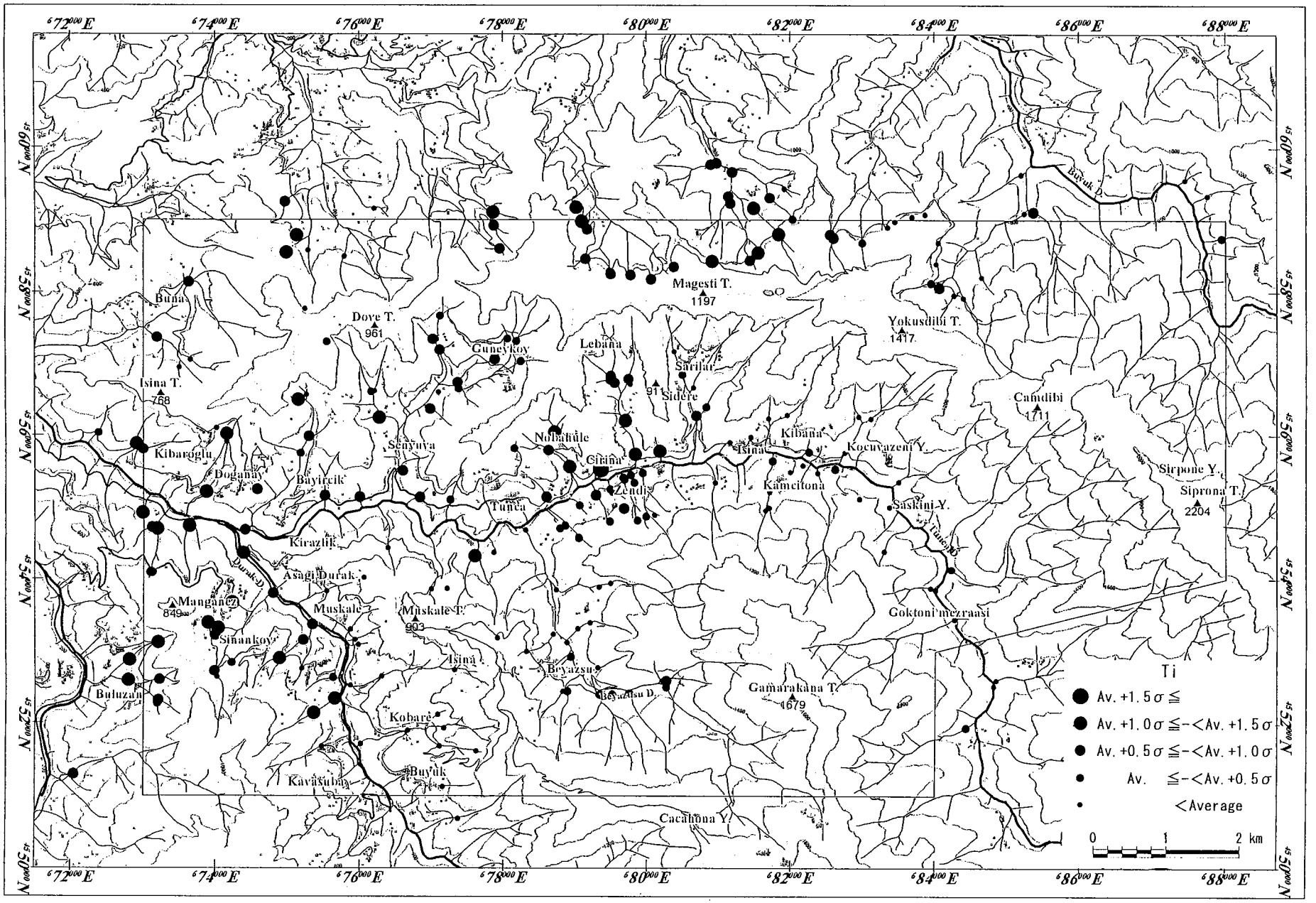
Appendix 6 Distribution Map of Sb by Stream Sediment Samples



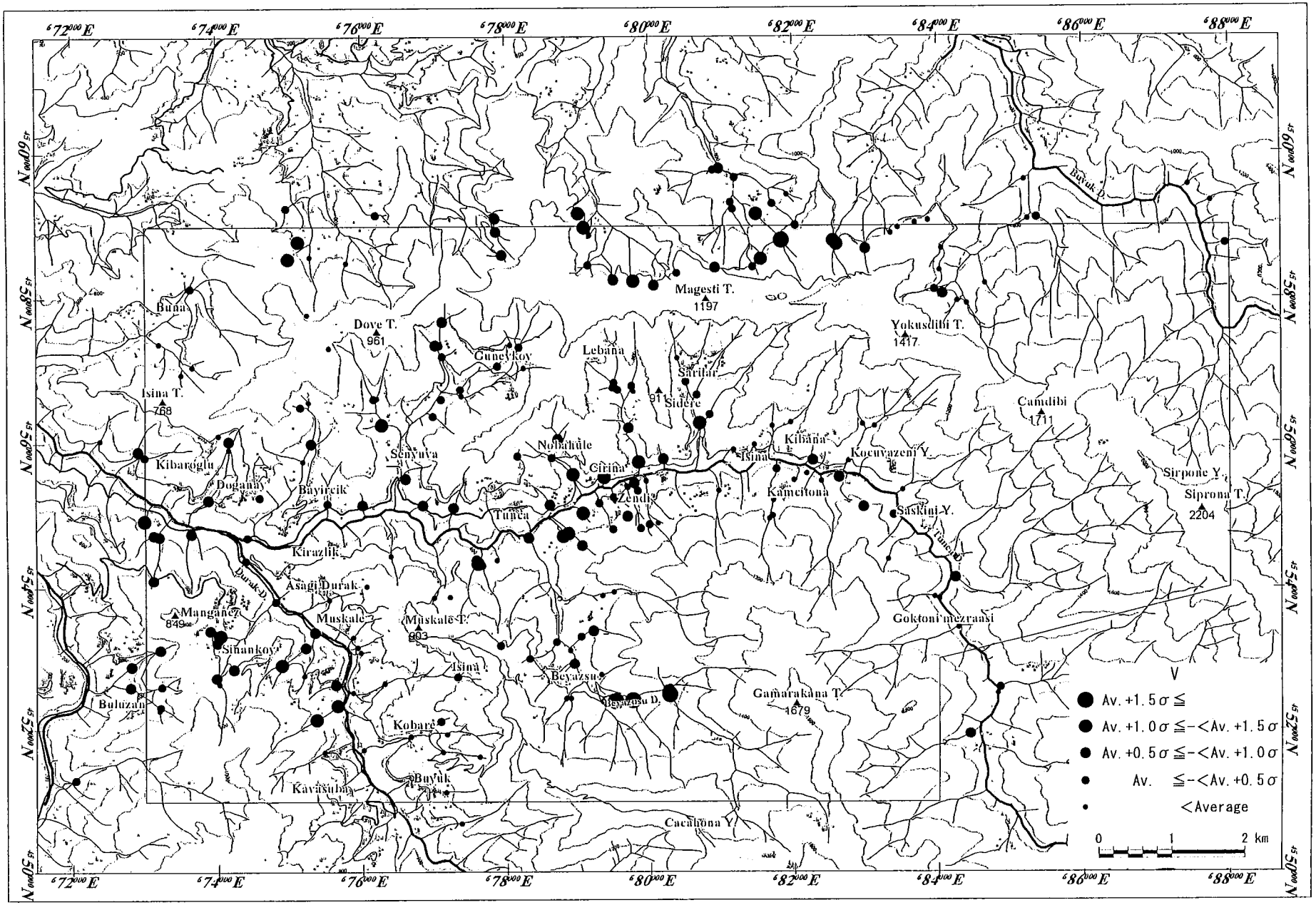
Appendix 6 Distribution Map of Sc by Stream Sediment Samples



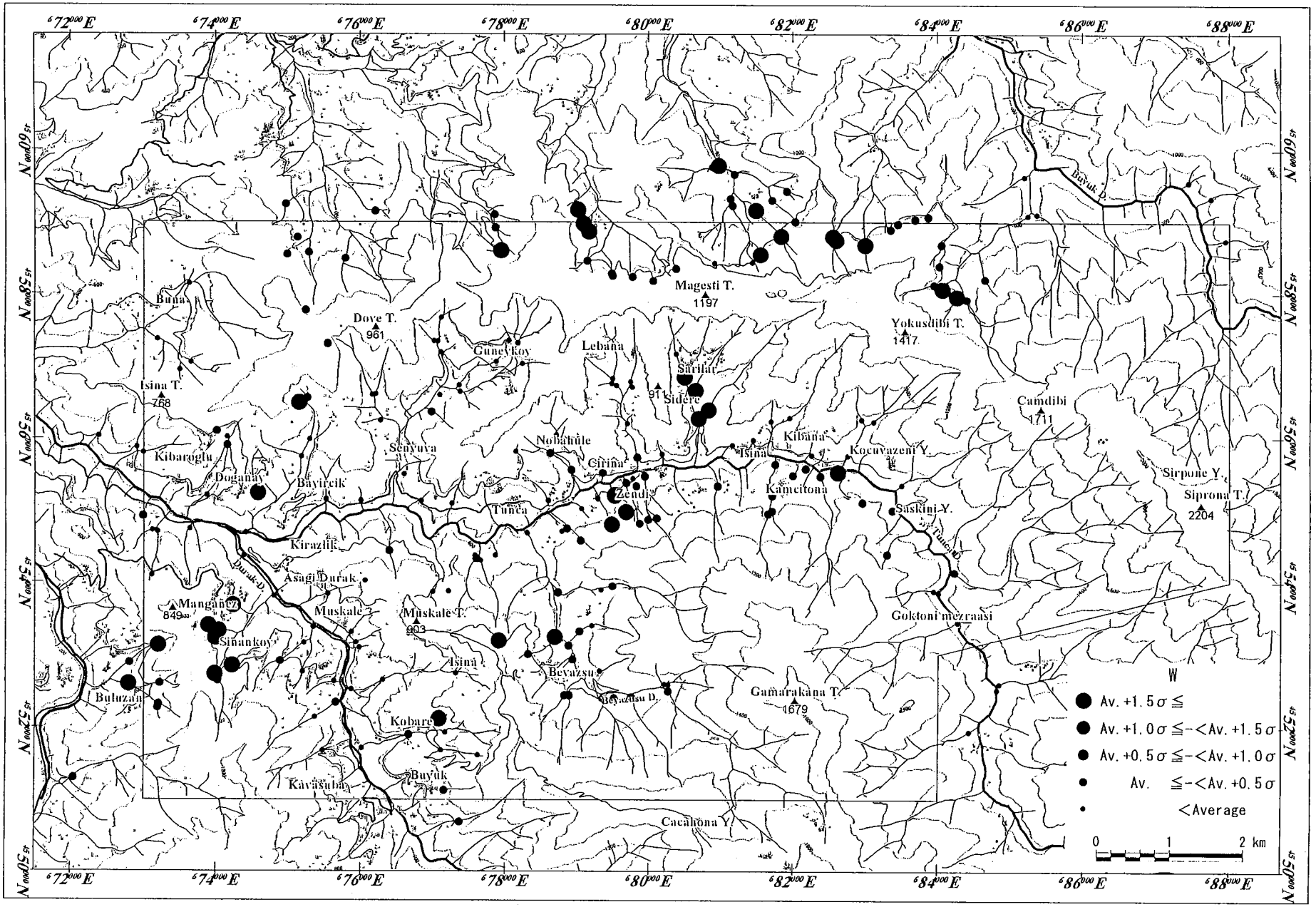
Appendix 6 Distribution Map of Sr by Stream Sediment Samples



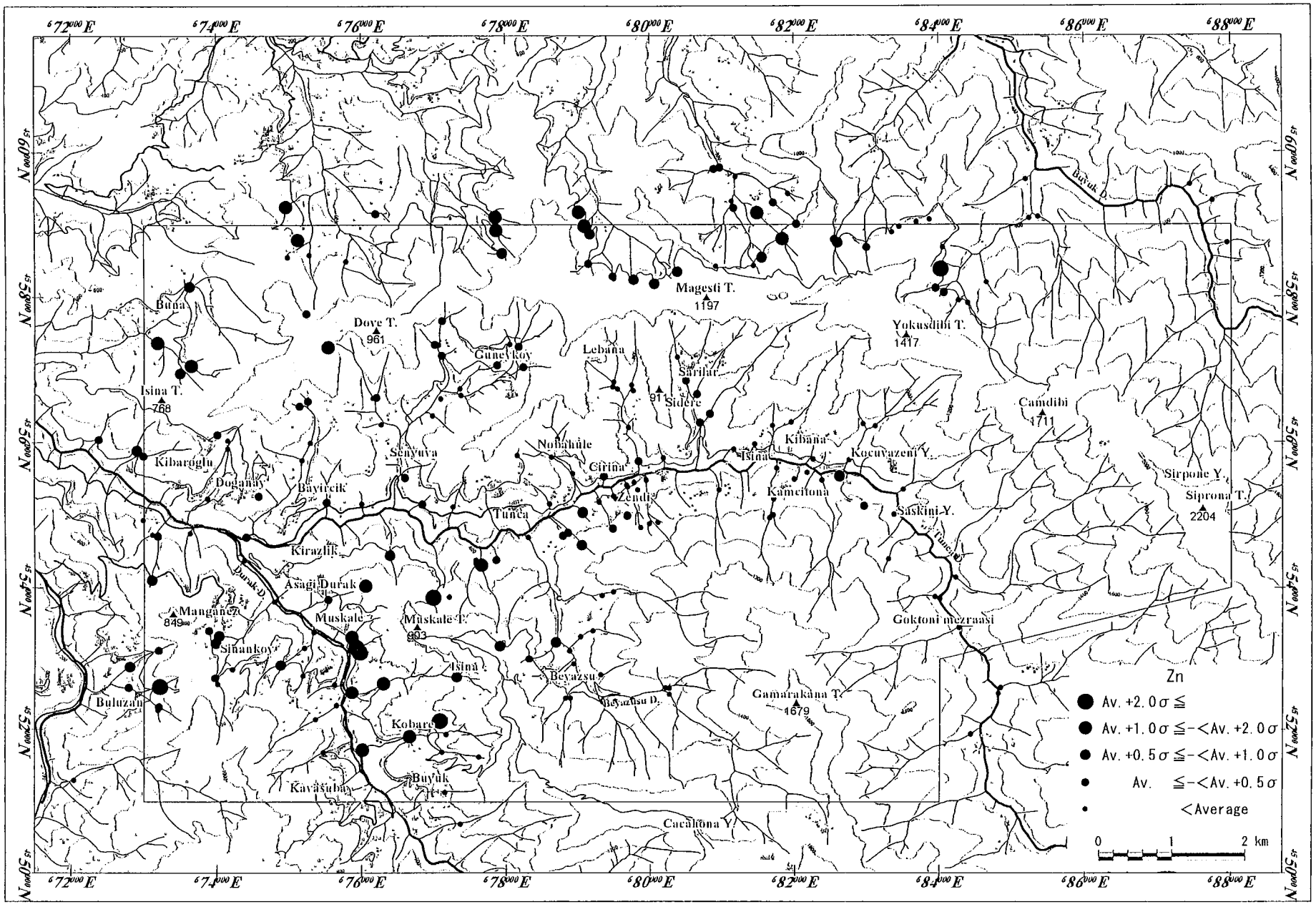
Appendix 6 Distribution Map of Ti by Stream Sediment Samples



Appendix 6 Distribution Map of V by Stream Sediment Samples



Appendix 6 Distribution Map of W by Stream Sediment Samples



Appendix 6 Distribution Map of Zn by Stream Sediment Samples

Appendix 7

Results of Chemical Analysis (Rock)

Appendix 7 Results of Chemical Analysis for Rock Samples (1)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
1	A008	73040	55113	Adcl	<0.001	<0.2	0.39	<2	<10	<10	<0.5	<2	0.07	<0.5	<1	12	2	0.29	<10	<1	0.02	<10	0.07	133	<1	0.06	<1	20	<2	<0.01	<2	1	8	0.01	<10	<10	3	<10	17
2	A010	73276	54857	Atf	0.001	<0.2	1.23	4	<10	<10	<0.5	<2	0.38	<0.5	3	37	8	1.97	<10	1	0.04	<10	0.68	492	<1	0.12	9	160	4	<0.01	<2	4	20	0.04	<10	<10	22	<10	48
3	A011	73867	54825	Dol	0.001	0.5	3.47	<2	10	<10	1.1	4	1.65	0.9	27	9	15	5.65	10	<1	0.03	<10	3.2	952	<1	0.04	13	230	2	<0.01	2	12	27	0.28	<10	<10	194	<10	52
4	A012	74262	54761	Atf	0.001	0.3	3.09	<2	<10	<10	1.1	<2	1.95	<0.5	<1	7	4	1.65	10	<1	0.13	<10	0.6	598	<1	0.03	3	250	24	<0.01	<2	4	71	0.17	<10	<10	3	<10	87
5	A014	75384	55049	Dol	0.001	0.5	4.12	<2	10	50	1.1	<2	1.73	0.9	25	16	60	5.23	10	<1	0.06	<10	2.69	818	1	0.45	60	310	2	<0.01	<2	5	34	0.3	<10	<10	192	<10	56
6	A015	76364	55355	Adcp	<0.001	<0.2	0.51	<2	<10	40	<0.5	<2	0.11	<0.5	<1	26	1	2.42	<10	<1	0.08	<10	0.17	297	<1	0.06	2	150	6	<0.01	<2	5	6	0.02	<10	<10	4	<10	62
7	A015K			Adcp	0.001	<0.2	0.54	2	<10	40	<0.5	<2	0.13	<0.5	<1	33	2	2.26	<10	<1	0.08	<10	0.16	325	<1	0.06	2	140	5	<0.01	3	5	8	0.01	<10	<10	4	<10	62
8	A016	76396	55444	Atf	0.093	5.4	0.7	223	<10	20	0.8	8	4.06	15.6	8	4	2080	4.07	10	3	0.22	10	0.44	2730	5	0.01	6	660	160	3.3	10	11	37	<0.01	<10	<10	13	<10	3250
9	A017	76566	55216	Adcp	0.001	<0.2	0.22	<2	<10	80	<0.5	<2	0.07	<0.5	<1	14	2	1.5	<10	<1	0.08	<10	0.03	383	<1	0.07	1	150	<2	<0.01	<2	6	4	0.02	<10	<10	2	<10	30
10	A018	76951	55061	Cbs	<0.001	0.5	3.19	<2	<10	<10	1.1	3	1.23	0.8	28	73	66	5.6	10	<1	0.01	<10	3.79	726	<1	0.04	67	290	<2	<0.01	<2	7	10	0.27	<10	<10	124	<10	64
11	A019	77473	55032	Cbs	<0.001	<0.2	0.48	4	<10	80	0.5	<2	0.13	<0.5	<1	15	3	2.11	<10	1	0.09	<10	0.13	602	1	0.02	2	170	6	0.01	<2	4	7	0.02	<10	<10	13	<10	9
12	A023	78263	55143	Cbs	0.001	0.7	3.25	4	10	20	1.2	5	2.08	1.2	36	6	59	7.96	10	<1	0.02	<10	2.53	1285	<1	0.03	18	390	3	0.01	5	22	15	0.28	<10	<10	314	<10	137
13	A026	78955	55567	Ctf	<0.001	0.5	3.38	<2	<10	20	<0.5	2	3.57	<0.5	4	7	18	1.98	10	<1	0.1	10	0.53	849	<1	0.02	6	440	4	<0.01	<2	9	166	<0.01	<10	<10	14	<10	64
14	A029	79883	55680	Dci	0.001	0.4	4.28	<2	10	<10	0.8	<2	4	0.9	23	30	39	4.1	10	<1	0.02	<10	2.48	476	<1	0.04	68	260	5	<0.01	2	5	18	0.22	<10	<10	131	<10	44
15	A032	80656	55987	Adcp	0.001	0.2	3.53	<2	<10	80	<0.5	2	2.23	<0.5	1	9	17	1.91	10	<1	0.05	<10	0.6	566	<1	0.04	4	150	4	0.01	<2	4	73	0.03	<10	<10	7	<10	72
16	A034	81451	55987	Dci	<0.001	<0.2	3.77	<2	<10	<10	<0.5	<2	2.5	<0.5	<1	5	1	1.62	10	<1	0.05	10	0.24	478	<1	0.03	2	150	2	<0.01	<2	3	86	0.02	<10	<10	5	<10	36
17	A036	82032	55796	Cbs	0.001	0.4	5.57	<2	<10	<10	1	<2	3	0.9	25	20	66	5.11	10	<1	0.01	<10	2.78	557	<1	0.36	55	400	<2	<0.01	2	6	75	0.28	<10	<10	155	<10	56
18	A037	82415	55826	Ctf	0.001	0.3	3.87	<2	<10	10	0.6	4	2.3	<0.5	5	3	9	2.82	10	<1	0.11	<10	1.12	1020	<1	0.01	9	570	5	<0.01	<2	9	92	0.1	<10	<10	21	<10	96
19	A040	82437	55529	Cbs	0.001	0.5	2.7	<2	<10	<10	0.8	<2	1.14	0.9	28	16	123	7.55	10	<1	0.02	<10	2.42	1330	<1	0.05	17	400	<2	<0.01	2	29	18	0.19	<10	<10	286	<10	89
20	A043	83311	55440	Cbs	0.001	0.4	2.17	<2	<10	<10	0.8	<2	0.3	1.1	28	13	140	7.93	10	<1	0.03	<10	2.34	1315	<1	0.04	22	420	4	<0.01	<2	24	11	0.15	<10	<10	251	<10	86
21	A046-1	83935	54740	Adcp	0.002	<0.2	1.18	<2	<10	<10	<0.5	<2	0.16	<0.5	4	50	6	3	10	<1	0.03	<10	0.45	962	<1	0.07	3	400	2	<0.01	<2	6	9	0.02	<10	<10	22	<10	68
22	A048	84157	53904	Ad	0.002	0.4	1.79	<2	<10	<10	0.9	<2	0.83	<0.5	24	12	117	5.27	<10	<1	0.02	<10	1.76	631	<1	0.05	9	290	<2	0.01	3	14	10	0.19	<10	<10	125	<10	69
23	A049	84155	53679	Cbs	0.002	0.2	1.89	<2	<10	10	0.5	9	1.21	<0.5	13	22	86	5.27	10	<1	0.04	<10	1.65	414	<1	0.06	3	400	2	0.02	<2	15	12	0.07	<10	<10	127	<10	96
24	A054	82499	51846	Dci	<0.001	<0.2	0.33	2	<10	120	0.5	<2	0.35	<0.5	<1	28	2	1.75	<10	<1	0.15	10	0.06	631	1	0.04	1	70	27	<0.01	<2	3	8	0.01	<10	<10	3	<10	32
25	A055	82499	51846	Cbs	0.001	<0.2	7.03	<2	<10	30	<0.5	<2	4.25	0.5	8	31	68	3.43	10	<1	0.04	<10	0.38	132	<1	0.9	13	470	<2	<0.01	<2	2	201	0.08	<10	<10	256	<10	12
26	A057	79700	58280	Stf	0.004	0.2	0.76	2	<10	170	<0.5	<2	4.36	<0.5	6	11	12	2.3	<10	1	0.1	<10	1.41	555	1	0.01	3	240	9	0.01	<2	11	65	0.01	<10	<10	44	<10	67
27	A062	85821	56416	Cbs	<0.001	0.5	2.99	<2	<10	20	1.1	<2	1.47	1.1	17	8	45	7.1	10	<1	0.01	<10	1.56	1640	<1	0.22	3	1240	4	<0.01	<2	8	53	0.25	<10	<10	127	<10	97
28	A062K			Cbs	0.008	0.6	2.99	<2	<10	30	1.2	4	1.37	0.9	16	7	42	7.01	10	<1	0.02	<10	1.53	1595	<1	0.22	3	1310	2	<0.01	<2	10	57	0.27	<10	<10	115	<10	99
29	A063	86035	56340	Ad	0.003	0.4	5.34	<2	<10	30	<0.5	<2	1.27	0.8	21	26	107	6.28	10	<1	0.04	10	2.42	1405	<1	0.19	30	1010	3	<0.01	<2	16	159	0.04	<10	<10	229	<10	76
30	A074	76782	53223	Atf	0.006	<0.2	2.1	<2	<10	40	<0.5	<2	1.77	<0.5	4	18	10	0.73	20	<1	0.22	<10	0.59	1169	<1	0.54	18	80	5	<0.01	<2	3	40	0.05	<10	<10	8	<10	50
31	A076	76539	53006	Cbs	0.002	<0.2	4.02	<2	<10	60	<0.5	<2	1.98	<0.5	28	68	52	4.5	20	1	0.01	10	2.88	684	1	0.14	95	290	<2	<0.01	<2	5	40	0.28	<10	30	138	<10	61
32	A081	78952	53378	Stf	0.004	<0.2	1.55	5	<10	160	0.7	<2	0.08	<0.5	7	3	13	3.73	20	<1	0.22	20	0.27	1265	<1	0.03	10	320	9	<0.01	<2	8	4	<0.01	<10	<10	8	<10	137
33	A084	79262	53874	Cbs	0.002	<0.2	3.28	<2	<10	10	<0.5	<2	2.3	0.5	27	27	29	6.26	30	<1	0.06	10	2.5	1749	<1	0.05	15	210	<2	<0.01	<2	24	3	0.09	<10	40	233	10	86
34	A089	78935	53982	Stf	<0.001	<0.2	0.59	<2	<10	80	1.3	<2	0.06	<0.5	13	2	3	7.31	50	<1	0.25	10	0.09	3737	<1	0.01	<1	1370	<2	<0.01	<2	14	<1	<0.01	<10	<10	3	<10	94
35	A090	78817	53968	Cbs	0.001	<0.2	2.56	6	<10	140	<0.5	<2	2.16	0.5	10	11	1	5.67	30	<1	0.09	20	1.32	1527	<1	0.04	<1	1170	<2	<0.01	<2	8	14	0.01	<10	<10	12	<10	126
36	A095	78806	54686	Cbs	0.001	<0.2	4.26	<2	<10	10	0.6	<2	1.52	1.1	22	7	43	6.01	20	<1	0.17	10	3.04	823	<1	0.06	5	190	<2	<0.01	<2	23	19	0.31	<10	110	190	<10	88
37	A104	84370	53999	Dci	0.002	<0.2	1.97	<2	<10	<10	<0.5	<2	1.34	<0.5	22	16	104	4.72	10	<1	<0.01	10	1.7	541	<1	0.05	11	220	<2	0.01	<2	6	<1	0.18	<10	30	149	<10	66
38	A106	84417	53942	Ad	0.002	<0.2	5.16	<2	<10	<10	<0.5	<2	2.3	<0.5	28	26	105	5.39	20	<1	0.03	10	3.38	927	1	0.15	14	250	<2	<0.01	<2	13	43	0.18	<10	30	160	<10	65
39	A109	84957	54024	Cbs	0.002	<0.2	3.46	3	<10	10	<0.5	<2	2.89	0.9	29	18	143	6.72	30	<1	0.02	10	2.32	1380	<1	0.03	13	350	<2	<0.01	<2	19	<1	0.23	<10	120	278	<10	78
40	A109K			Cbs	0.001	<0.2	3.15	<2	<10	10	0.5	<2	2.01	0.5	30	15	64	6.83	30	<1	0.02	10	2.35	1336	<1	0.04	12	390	<2	<0.01	<2	16	<1	0.25	<10	120	255	<10	83
41	A113	87634	59092	Cdb	0.003	<0.2	4.33	<2	<10	<10	<0.5	<2	3.12	0.8	31	20	196	6.21	20	<1	0.23	10	3.47	1171	<1	0.11	13	110	4	<0.01	<2	18	27	0.13	<10	<10	116	<10	85
42	A118	74071	52767	Atf	0.001	<0.2	0.82	2	<10	30	<0.5	<2	0.16	<0.5	1	31	3	1.28	10	1	0.13	20	0.28	391	<1	0.02	2	90	<2	<0.01	<2	4	21	0.01	<10	<10	5	<10	51
43	A118K			Atf	0.002	<0.2	0.89	<2	<10	40	<0.5	2	0.17	<0.5	1	38	1	1.23	10	<1	0.17	20	0.27	393	<1	0.03	2	90	3	<0.01	<2	4	21	0.01	<10	<10	3	<10	49
44	A120	74338	52959	Cbs	0.01	<0.2	1.15	5	<10	70	<0.5	<2	0.36	<0.5	8	76	21	2.56	10	<1	0.01	<10	0.62	810	<1	0.02	5	110	6	<0.01	<2	5	18	0.02	<10	<10	50	<10	53
45	A124	81711	55972	Ad	0.001	<0.2	4.12	3	10	30	1	<2	3.17	<0.5	14	2	20	5.04	30	1	0.06	20	1.44	1270	<1	0.05	<1	1390	6	<0.01	<2	7	142	0.18	<10	20	107	<10	69
46	A126	81791	56097	Dci	<0.001	<0.2	3.21	<2	<10	20	<0.5	<2	2.02	<0.5	1	7	2	1.64	10	<1	0.09	10	0.44	275	<1	0.03	2	140	<2	<0.01	<2	3	72	0.02	<10	<10	3	<10	44
47	A127	81798	56177	Dci	0.001	<0.2	0.72	<2	<10	20	<0.5	<2	0.15	<0.5	2	18	18	1.38	10	1	0.17	10	0.14	215	<1	0.05	2	120	3	<0.01	<2	3	4	0.01	<10	<10	10	<10	56
48	A128	81696	56175	Dci	<0.001	<0.2	4.09	3	<10	<10	<0.5	<2	2.52	<0.5	2	5	1	1.87	10	1	0.04	10	0.62	333	<1	0.04	1	140	<2	<0.01	<2	5	72	0.05	<10	<10	4	<10	57
49	A129-2	81625	57296	Cbs	0.001	<0.2	2.82	18	10	<10	<0.5	<2	3.22	0.7	31	12	4	6.62	40	<1	0.01	10	1.56	1832	<1	0.04	12	330	<2	<0.01	<2	27	2	0.09	<10	80	298	<10	96
50	A130	81497	57118	Cbs	0.001	<0.2	0.93	4	<10	20	<0.5	<2	2.15	<0.5	3	18	7	1.57	10	1	0.2	10	0.32	408	<1	0.02	3	160	7	<0.01	<2	3	13	0.01	<10	<10	5	<10	57

Appendix 7 Results of Chemical Analysis for Rock Samples (2)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
51	A132	81710	57390	Cbs	0.001	<0.2	1.54	2	<10	20	<0.5	<2	1.43	<0.5	8	22	6	4.23	30	<1	0.06	10	0.95	1560	<1	0.1	1	870	7	<0.01	<2	13	19	0.04	<10	<10	34	<10	73
52	A133	80796	58412	Dr	<0.001	<0.2	3.99	<2	<10	10	0.5	<2	2.26	<0.5	23	19	6	4.36	20	<1	0.03	10	3.07	599	<1	0.19	95	660	<2	<0.01	<2	4	85	0.26	<10	30	144	<10	49
53	A135	80157	58933	Dci	0.001	<0.2	0.7	2	<10	30	1	<2	0.13	<0.5	2	7	6	1.33	20	<1	0.08	70	0.21	1140	<1	0.07	4	240	15	<0.01	<2	2	12	0.04	10	90	24	<10	82
54	A136	80372	58346	Dr	0.001	<0.2	4.5	<2	<10	20	0.6	<2	3.15	<0.5	17	7	11	4.36	20	<1	0.09	10	1.72	565	<1	0.04	28	840	<2	<0.01	<2	7	74	0.14	<10	40	158	<10	61
55	A138	79155	58435	Stf	0.002	<0.2	2.81	9	<10	50	<0.5	<2	1.45	<0.5	5	7	11	1.87	10	<1	0.1	20	0.46	282	<1	0.05	6	220	8	<0.01	<2	3	56	0.02	<10	<10	18	<10	54
56	A139	78817	58313	Sbs	<0.001	<0.2	2.36	<2	<10	<10	<0.5	<2	2.82	<0.5	19	17	14	4.67	20	1	0.03	10	2.65	1114	<1	0.09	24	430	<2	<0.01	<2	15	17	0.29	<10	70	182	<10	62
57	A140	78270	54813	Stf	0.001	0.2	1.39	2	<10	110	0.8	<2	1.45	<0.5	5	9	9	2.08	10	<1	0.17	20	0.46	687	<1	0.01	3	290	5	<0.01	<2	4	26	<0.01	<10	<10	7	<10	68
58	A142	78257	54818	Cbs	0.001	<0.2	5.14	<2	<10	<10	<0.5	<2	2.98	<0.5	26	40	62	4.19	20	2	0.01	10	3.24	508	1	0.31	115	300	<2	<0.01	3	7	54	0.26	<10	40	125	<10	47
59	A145	78178	54766	Adcl	0.019	2.1	0.34	5	<10	100	<0.5	2	0.06	<0.5	1	81	6	0.89	<10	<1	0.16	<10	0.04	53	2	0.01	3	20	19	0.61	<2	1	<1	<0.01	<10	<10	4	<10	122
60	A152	78300	54710	Cbs	0.001	<0.2	4.06	11	<10	10	0.7	<2	2.94	0.9	25	15	106	6.56	30	<1	0.01	10	2.15	1309	<1	0.03	9	290	<2	<0.01	<2	22	23	0.27	<10	130	257	<10	83
61	A157	76946	53315	Adcp	<0.001	<0.2	0.76	<2	<10	170	<0.5	<2	0.09	<0.5	1	2	1	1.57	10	<1	0.11	10	0.03	839	<1	0.03	<1	30	<2	<0.01	<2	5	5	0.01	<10	<10	5	<10	56
62	A164	76733	53876	Adcp	0.01	<0.2	1.8	4	<10	80	<0.5	<2	0.06	<0.5	1	10	<1	4.27	<10	<1	0.1	10	0.03	51	<1	0.04	2	30	9	<0.01	<2	3	<1	0.02	<10	<10	13	<10	13
63	A170	77255	53253	Atf	0.002	0.2	2.01	2	<10	40	<0.5	<2	0.03	<0.5	23	3	147	6.16	30	<1	0.22	10	0.35	1844	<1	0.01	13	400	<2	<0.01	<2	28	<1	0.01	<10	<10	159	<10	85
64	A172	72189	55461	Adcl	0.013	0.4	0.35	32	<10	60	<0.5	3	0.08	19.9	2	48	1745	1.06	<10	<1	0.27	10	0.04	61	7	<0.01	2	60	27	1.17	<2	1	<1	<0.01	<10	<10	1	<10	5440
65	A174	77012	54966	Atf	<0.001	<0.2	0.88	3	<10	20	<0.5	<2	0.08	<0.5	3	13	5	1.76	10	<1	0.22	<10	0.19	277	<1	0.01	1	60	<2	<0.01	<2	5	<1	0.01	<10	<10	10	<10	58
66	A175	77011	54846	Adcp	<0.001	<0.2	0.34	<2	<10	10	<0.5	<2	0.03	<0.5	1	18	2	0.9	<10	<1	0.08	<10	0.03	109	<1	0.07	1	90	3	<0.01	<2	2	2	0.01	<10	<10	2	<10	31
67	A176	76960	54644	Atf	0.001	<0.2	0.33	<2	<10	20	<0.5	<2	0.59	<0.5	3	60	6	2.05	<10	<1	0.03	<10	0.34	680	<1	0.07	5	140	<2	<0.01	2	7	9	0.04	<10	<10	11	<10	53
68	A177	76910	54731	Adcp	0.083	<0.2	0.4	3	<10	560	<0.5	<2	0.04	<0.5	1	21	3	1.61	<10	<1	0.11	<10	0.04	290	<1	0.06	1	120	17	0.02	<2	4	7	0.01	<10	<10	2	<10	37
69	A179	76807	54973	Atf	0.001	0.3	0.57	3	<10	20	0.7	<2	0.67	<0.5	4	33	9	1.35	<10	<1	0.19	10	0.24	355	<1	0.02	8	160	3	<0.01	<2	4	8	0.01	<10	<10	12	<10	53
70	A180	77061	54763	Atf	0.001	0.7	0.5	5	<10	40	<0.5	<2	1.66	<0.5	6	36	130	1.38	10	<1	0.16	<10	0.35	550	<1	0.03	6	100	3	<0.01	<2	5	13	<0.01	<10	<10	17	<10	38
71	A181	77213	54836	Dci	0.003	<0.2	0.22	4	<10	170	<0.5	<2	2.06	<0.5	3	63	3	2.21	10	<1	0.04	10	0.92	930	<1	0.12	3	150	60	0.01	<2	8	24	0.04	<10	<10	6	<10	308
72	A185	77714	54703	Atf	0.01	0.7	0.45	53	<10	240	<0.5	<2	0.06	<0.5	1	37	124	1.22	<10	<1	0.18	10	0.13	86	1	0.01	2	80	11	0.06	2	1	3	<0.01	<10	<10	5	<10	125
73	A199	75060	54746	Atf	0.001	0.2	0.73	<2	<10	40	<0.5	<2	1	<0.5	1	37	6	1.12	10	<1	0.12	10	0.31	499	<1	0.01	2	110	24	<0.01	<2	2	7	<0.01	<10	<10	3	<10	35
74	A199K			Atf	0.001	<0.2	0.8	2	<10	60	<0.5	<2	1.49	<0.5	1	42	4	1.22	10	<1	0.13	10	0.34	499	1	0.02	3	120	46	0.01	<2	2	11	<0.01	<10	<10	3	<10	36
75	B002	75091	54979	Dol	<0.001	<0.2	0.71	<2	<10	<10	<0.5	<2	2.12	<0.5	1	68	4	1	10	<1	0.11	10	0.25	428	<1	0.02	3	120	2	<0.01	<2	2	48	<0.01	<10	<10	3	<10	44
76	B005	75272	55501	Dol	0.001	<0.2	4.5	10	20	<10	<0.5	2	3.62	2	46	231	37	8.01	30	<1	0.01	<10	2.85	1660	<1	0.04	93	560	9	<0.01	3	38	21	0.31	<10	10	294	<10	132
77	B008	75481	56471	Cbs	<0.001	<0.2	6.54	6	20	<10	<0.5	<2	5.68	1.8	27	70	11	6.26	30	<1	0.1	<10	2.3	806	<1	0.05	53	680	4	<0.01	3	23	75	0.31	<10	10	256	10	69
78	B010	75467	55105	Adcl	0.002	<0.2	0.42	2	<10	60	<0.5	<2	0.56	<0.5	1	99	3	1.23	<10	<1	0.08	<10	0.04	550	1	0.05	4	80	2	<0.01	<2	4	4	0.01	<10	<10	4	<10	43
79	B012	75660	56643	Atf	0.001	0.2	4.16	2	<10	10	0.5	<2	2.75	<0.5	4	39	16	2.05	10	<1	0.13	10	0.54	483	<1	0.07	3	280	7	<0.01	<2	5	76	0.05	<10	<10	24	<10	53
80	B014	75702	56785	Stf	0.001	0.3	1.37	<2	<10	30	<0.5	<2	5.81	0.6	3	9	32	2.24	10	<1	0.2	10	0.55	1665	<1	0.05	5	690	10	<0.01	<2	6	104	0.21	<10	<10	39	<10	61
81	B015	75511	57437	Dci	0.001	0.3	2.32	3	<10	20	<0.5	<2	1.32	<0.5	1	32	1	2.87	20	<1	0.1	10	0.48	735	<1	0.04	1	600	4	<0.01	<2	14	61	0.18	<10	<10	6	<10	79
82	B016	75067	57083	Dci	<0.001	0.4	3.16	2	<10	30	0.5	<2	1.89	<0.5	1	23	2	2.88	20	<1	0.09	10	0.44	792	<1	0.04	1	590	5	<0.01	3	15	73	0.18	<10	<10	9	<10	78
83	B017	74621	56545	Dci	0.001	<0.2	3.9	<2	<10	420	<0.5	<2	0.13	<0.5	5	5	14	2.11	10	<1	0.06	<10	0.36	174	<1	0.01	3	110	9	0.01	<2	5	3	<0.01	<10	<10	18	<10	75
84	B020	74498	55620	Ctf	<0.001	<0.2	3.26	<2	<10	20	<0.5	<2	0.16	<0.5	4	14	16	1.59	10	<1	0.05	<10	0.14	127	<1	0.04	5	330	5	0.01	<2	2	7	0.13	<10	<10	48	<10	30
85	B021	74238	55274	Cbs	<0.001	<0.2	7.29	10	10	<10	<0.5	<2	6.16	1.9	27	64	15	5.6	20	<1	0.04	<10	0.52	729	<1	0.05	68	510	5	<0.01	4	14	123	0.21	<10	10	160	10	70
86	B022	73930	55131	Atf	0.001	<0.2	5.64	2	<10	190	<0.5	<2	0.13	<0.5	6	16	26	2.16	20	<1	0.07	10	0.09	308	<1	0.02	5	140	8	0.01	<2	6	22	0.14	<10	<10	46	<10	34
87	B025	74038	54945	Cls	0.001	0.5	0.83	4	<10	20	<0.5	<2	11.65	0.9	3	14	10	2.33	10	<1	0.28	20	0.39	1695	<1	0.02	11	990	14	<0.01	<2	4	112	0.04	<10	<10	23	<10	45
88	B026	72969	57026	Stf	0.002	<0.2	1.05	2	<10	110	0.6	<2	0.3	<0.5	2	4	14	1.98	<10	<1	0.21	10	0.08	930	<1	0.01	4	260	11	<0.01	<2	5	13	<0.01	<10	<10	13	<10	67
89	B028	72882	56893	Stf	<0.001	<0.2	1.28	2	<10	20	<0.5	<2	1.37	0.5	6	35	17	2.51	10	<1	0.14	10	0.7	467	<1	0.03	4	290	4	<0.01	<2	3	10	0.02	<10	<10	27	<10	38
90	B029	72843	56808	Cbs	<0.001	<0.2	4.14	<2	<10	<10	<0.5	<2	3.15	0.8	17	20	5	6.02	20	<1	0.11	<10	1.37	747	<1	0.06	4	680	3	<0.01	<2	17	79	0.35	<10	10	211	<10	65
91	B031	73490	56254	Stf	0.001	<0.2	1.03	2	<10	30	<0.5	<2	1.85	<0.5	2	17	13	1.35	10	<1	0.22	20	0.44	284	<1	0.01	2	160	11	<0.01	<2	1	22	<0.01	<10	<10	4	<10	45
92	B032	73593	56207	Stf	0.001	<0.2	1.38	3	<10	50	<0.5	<2	2.38	<0.5	5	20	19	2.18	10	<1	0.08	10	0.61	604	<1	0.03	3	230	6	<0.01	<2	6	15	0.01	<10	<10	23	<10	48
93	B034	73638	55584	Cbs	<0.001	<0.2	3.3	<2	10	<10	<0.5	<2	11.55	1.6	30	93	15	5.97	20	<1	0.01	<10	3.47	1320	<1	0.01	52	430	4	<0.01	<2	26	37	0.35	<10	10	170	<10	69
94	B035	73343	55451	Cbs	0.001	<0.2	5.09	2	<10	<10	<0.5	<2	2.15	1.1	31	35	117	5.49	20	<1	0.04	<10	4.6	1270	<1	0.24	98	310	2	<0.01	2	10	45	0.3	<10	10	150	<10	63
95	B039	73187	56587	Stf	<0.001	<0.2	1.44	2	<10	20	<0.5	<2	0.44	<0.5	2	15	7	0.74	<10	<1	0.18	<10	0.13	103	<1	<0.01	2	80	7	0.01	<2	2	10	0.01	<10	<10	3	<10	22
96	B041	73968	56581	Sms	0.002	0.3	1.53	3	<10	90	0.7	<2	0.13	<0.5	5	4	30	1.83	10	<1	0.21	50	0.3	639	<1	0.02	7	240	13	<0.01	<2	3	10	<0.01	<10	<10	11	<10	64
97	B043	74633	56458	Stf	<0.001	0.5	1.81	2	<10	80	<0.5	<2	0.04	<0.5	3	5	9	0.61	10	<1	0.19	40	0.22	235	<1	0.01	1	10	9	<0.01	<2	2	26	<0.01	<10	<10	4	<10	30
98	B044	74251	56224	Cbs	<0.001	<0.2	3.37	3	10	<10	<0.5	<2	4.33	0.8	23	46	22	5.31	20	<1	0.06	<10	2.61	1010	<1	0.05	39	360	<2	<0.01	3	19	42	0.29	<10	10	169	<10	61
99	B046	74030	56122	Sms	0.001	0.3	0.4	2	<10	20	<0.5	5	>15.0	0.7	2	2	50	1.49	10	<1	0.13	10	0.12	1780	<1	0.01	9	310	18	0.01	<2	3	374	0.03	<10	10	31	<10	2
100	B048	74030	56080	Sms	0.001	0.3	1.2	9	<10	10	<0.5	4	>15.0	0.5	6	13	59	1.87	20	<1	0.03	10	1.02	3870	<1	0.02	32	250	49	0.04	<2	4	382	0.03	<10	10	21	<10	27

Appendix 7 Results of Chemical Analysis for Rock Samples (3)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
101	B050	73194	55839	Cbs	0.001	<0.2	4.45	<2	10	<10	<0.5	<2	2.65	0.6	30	34	66	4.45	20	<1	0.02	<10	4.08	595	<1	0.33	136	240	4	0.01	2	3	56	0.18	<10	10	102	<10	46
102	B051	72966	55672	Cbs	0.001	<0.2	3.46	3	10	<10	<0.5	<2	2.87	<0.5	20	22	44	4.56	20	<1	0.05	<10	2.15	659	<1	0.09	31	290	5	<0.01	2	3	40	0.2	<10	10	177	<10	44
103	B052	73977	56128	Cbs	0.002	<0.2	2.96	5	<10	40	<0.5	<2	2.08	<0.5	16	40	51	4.59	20	<1	0.06	<10	1.9	924	<1	0.06	24	400	7	<0.01	4	14	52	0.3	<10	10	145	<10	76
104	B055	84489	56759	Cbs	<0.001	<0.2	4.54	4	<10	30	<0.5	<2	2.57	1	23	43	60	5.71	20	<1	0.04	<10	2.53	1155	<1	0.35	65	980	7	<0.01	<2	7	93	0.35	<10	10	143	<10	88
105	B056	84243	56457	Dci	<0.001	<0.2	0.86	3	<10	10	<0.5	<2	2.48	<0.5	2	29	3	1.7	10	<1	0.09	10	0.32	485	<1	0.03	3	180	4	<0.01	<2	3	23	0.01	<10	<10	5	<10	70
106	B060	82881	57830	Stf	0.018	<0.2	4.68	4	<10	90	<0.5	<2	0.32	<0.5	7	12	181	2.13	20	<1	0.23	10	0.51	813	<1	0.01	14	190	60	0.01	3	6	7	0.02	<10	<10	25	<10	161
107	B061	82994	57829	Nv	0.001	<0.2	5.72	3	10	20	<0.5	<2	3.2	1.1	23	33	99	5.84	30	<1	0.04	<10	1.9	947	<1	0.24	17	350	5	<0.01	<2	12	87	0.22	<10	10	179	10	63
108	B063	83220	57665	Stf	0.001	<0.2	3.73	3	<10	20	0.6	<2	2.14	<0.5	3	22	11	2.2	10	<1	0.04	10	0.35	557	<1	0.01	2	220	10	<0.01	2	8	100	0.05	<10	<10	15	<10	53
109	B064	83400	57483	Dci	<0.001	<0.2	2.63	<2	<10	240	0.5	<2	0.12	<0.5	3	22	15	1.16	10	<1	0.17	30	0.28	224	<1	0.04	5	510	9	<0.01	<2	2	11	0.08	<10	<10	26	<10	36
110	B066	83504	57409	Dci	0.001	<0.2	1.05	2	<10	70	<0.5	<2	0.02	<0.5	2	14	10	0.73	<10	<1	0.24	10	0.12	507	<1	0.03	2	60	3	<0.01	2	3	3	<0.01	<10	<10	2	<10	19
111	B068	83760	57259	Nv	<0.001	<0.2	1.03	<2	<10	<10	<0.5	<2	0.14	<0.5	3	43	4	2.25	10	<1	0.05	10	0.47	373	<1	0.06	1	160	3	<0.01	<2	4	4	0.03	<10	<10	14	<10	50
112	B069	83828	57215	Stf	<0.001	<0.2	1.51	3	<10	30	<0.5	<2	0.09	<0.5	5	47	9	2.75	10	<1	0.14	10	0.62	1005	<1	0.04	4	160	7	<0.01	<2	5	5	0.01	<10	<10	11	<10	86
113	B071	84293	57101	Dci	<0.001	<0.2	3.05	3	<10	20	<0.5	<2	1.49	<0.5	3	24	1	2.36	20	<1	0.09	<10	1.16	464	<1	0.02	3	120	4	<0.01	2	3	37	0.02	<10	<10	3	<10	89
114	B074	84624	56891	Dci	0.002	<0.2	0.99	<2	<10	20	<0.5	<2	0.52	<0.5	4	62	40	2.24	10	<1	0.08	<10	0.35	259	<1	0.04	10	150	5	<0.01	<2	3	5	<0.01	<10	<10	3	<10	102
115	B076	87488	54623	Dol	<0.001	<0.2	4.35	2	<10	40	<0.5	<2	2.87	0.5	15	39	33	5.11	20	<1	0.04	<10	1.54	1085	<1	0.42	5	780	8	<0.01	<2	3	221	0.14	<10	10	118	<10	62
116	B077	87544	54739	Sms	0.364	<0.2	1.9	10	<10	60	<0.5	<2	0.22	0.5	17	34	72	3.36	30	<1	0.24	<10	1.04	7620	<1	0.01	57	230	45	0.03	<2	5	6	0.04	<10	10	40	<10	92
117	B079	87505	54811	Stf	0.001	<0.2	1.53	<2	<10	40	<0.5	<2	0.97	<0.5	3	41	12	1.9	10	<1	0.2	<10	0.56	441	<1	0.12	2	160	26	<0.01	<2	2	54	0.06	<10	<10	5	<10	117
118	B080	87492	54837	Stf	<0.001	<0.2	2.48	<2	<10	30	<0.5	<2	0.04	<0.5	3	5	4	2.44	10	<1	0.21	10	0.39	723	<1	0.02	1	120	5	<0.01	<2	4	5	<0.01	<10	<10	7	<10	72
119	B082	87316	55216	Kgd	<0.001	<0.2	2.21	<2	<10	20	<0.5	<2	0.9	<0.5	15	32	24	2.86	10	<1	0.02	10	1.58	645	<1	0.03	4	990	5	<0.01	<2	2	63	0.1	<10	<10	52	<10	69
120	B083	86795	55650	Kgd	0.001	<0.2	2.52	2	<10	70	<0.5	<2	0.84	<0.5	12	16	31	3.12	10	<1	0.05	<10	1.37	378	<1	0.05	4	840	2	<0.01	<2	3	61	0.16	<10	<10	78	<10	34
121	B084	86441	55907	Kgd	0.008	<0.2	2.83	<2	<10	40	<0.5	<2	1.77	<0.5	14	30	32	4.39	10	<1	0.05	<10	1.03	510	<1	0.17	4	810	5	<0.01	<2	2	102	0.1	<10	10	155	<10	42
122	B084K			Kgd	0.01	<0.2	2.73	<2	<10	40	<0.5	<2	2.09	<0.5	15	33	36	4.71	20	<1	0.06	<10	1.1	535	<1	0.21	4	880	7	<0.01	2	2	118	0.11	<10	10	169	<10	43
123	B085	86072	55983	Dol	<0.001	<0.2	3.49	3	<10	20	<0.5	<2	1.92	<0.5	20	14	60	5.7	20	<1	0.05	<10	1.65	1165	<1	0.06	3	780	10	<0.01	<2	9	57	0.17	<10	10	148	<10	74
124	B086	86267	56060	Stf	0.003	<0.2	4.72	3	<10	160	<0.5	<2	0.47	<0.5	5	27	13	2.06	20	<1	0.1	10	0.62	481	<1	0.03	5	360	7	0.03	2	5	39	0.03	<10	<10	31	<10	73
125	B089	85893	56708	Stf	0.001	<0.2	2.35	3	<10	20	<0.5	<2	1.6	<0.5	20	49	22	4.72	20	<1	0.12	<10	1.63	924	<1	0.04	10	470	4	<0.01	<2	13	19	0.01	<10	<10	95	<10	86
126	B090	85586	56377	Dci	0.003	<0.2	0.8	2	<10	10	<0.5	<2	2.17	<0.5	3	97	16	1.31	10	<1	0.06	10	0.33	336	<1	0.04	5	210	6	<0.01	<2	4	54	<0.01	<10	<10	12	<10	36
127	B091	85486	56368	Dol	<0.001	<0.2	3.13	<2	<10	<10	<0.5	<2	1.27	0.5	20	18	55	7.62	30	<1	0.03	<10	1.92	1860	<1	0.12	3	910	4	<0.01	<2	16	49	0.46	<10	10	157	<10	107
128	B094	85302	56245	Stf	0.003	<0.2	1.28	<2	<10	30	<0.5	<2	0.19	<0.5	3	8	10	1.56	10	<1	0.12	<10	0.21	194	<1	0.01	2	100	6	<0.01	2	3	18	0.04	<10	<10	12	<10	37
129	B097	84993	55859	Dci	<0.001	<0.2	0.54	2	<10	20	<0.5	<2	0.22	<0.5	1	36	1	1.21	<10	<1	0.12	<10	0.06	201	<1	0.05	2	120	3	<0.01	<2	3	14	0.01	<10	<10	4	<10	22
130	B099	84475	55185	Dci	<0.001	<0.2	1	2	<10	10	<0.5	<2	0.25	<0.5	2	34	4	1.5	10	<1	0.13	<10	0.25	184	<1	0.02	2	100	2	<0.01	<2	3	16	0.03	<10	<10	5	<10	40
131	B101	83900	55200	Dci	<0.001	<0.2	3.66	8	10	<10	<0.5	<2	3.41	1.6	29	24	168	8.05	30	<1	0.03	<10	1.34	1135	<1	0.04	15	570	5	<0.01	<2	36	7	0.25	<10	10	375	<10	92
132	B104	85912	55468	Dci	0.001	<0.2	3.21	2	<10	40	<0.5	<2	1.22	<0.5	11	37	29	3.42	20	<1	0.09	<10	1.36	736	<1	0.04	7	410	4	<0.01	<2	8	26	0.16	<10	<10	61	<10	72
133	B106	85631	55284	Dci	<0.001	<0.2	2.27	<2	<10	<10	<0.5	<2	0.58	<0.5	15	51	58	3.4	20	<1	0.05	<10	1.59	798	<1	0.03	10	350	3	<0.01	2	8	10	0.26	<10	<10	69	<10	70
134	B110	79573	55417	Ctf	<0.001	<0.2	1.44	3	<10	100	0.6	<2	0.63	<0.5	5	18	8	2.32	10	<1	0.14	70	0.27	726	<1	0.07	2	1550	11	0.01	<2	2	178	0.07	<10	<10	42	<10	76
135	B113	79495	55255	Ctf	<0.001	<0.2	2.05	2	<10	60	<0.5	<2	0.63	<0.5	7	39	28	2.3	10	<1	0.05	10	0.5	985	<1	0.06	12	390	7	<0.01	<2	9	56	0.15	<10	<10	64	<10	40
136	B116	78850	54910	Cbs	<0.001	<0.2	4.96	2	10	<10	<0.5	<2	3.99	2.9	32	17	28	9.65	30	<1	0.01	<10	2.45	1555	<1	0.02	11	430	7	<0.01	2	37	7	0.22	<10	20	401	10	100
137	B118	79520	53962	Ctf	<0.001	0.7	1.07	3	<10	<10	<0.5	7	>15.0	0.5	6	15	5	1.1	10	<1	0.01	<10	0.79	1925	<1	0.01	26	340	4	0.01	<2	1	610	0.06	<10	10	15	<10	19
138	B119	79520	53962	Stf	<0.001	<0.2	3.59	3	<10	<10	<0.5	<2	1.96	1.2	29	47	19	5.06	20	<1	0.02	<10	3.34	842	<1	0.05	91	370	4	<0.01	3	4	18	0.22	<10	10	145	<10	54
139	B120	79520	53962	Stf	<0.001	0.3	1.39	<2	<10	<10	<0.5	<2	1.69	0.6	5	22	9	3.83	20	<1	0.02	<10	0.86	1070	<1	0.07	7	680	4	<0.01	<2	15	11	0.02	<10	<10	24	<10	162
140	B122	79658	53954	Stf	0.007	<0.2	3.14	<2	<10	40	<0.5	<2	4.31	1.4	38	80	157	5.43	20	<1	0.46	<10	3.64	1390	<1	0.04	98	190	5	<0.01	4	20	35	0.14	<10	10	50	10	91
141	B126	80095	52542	Stf	0.002	0.2	2.05	7	<10	10	<0.5	<2	1.25	0.5	15	56	138	2.8	10	<1	0.09	<10	1.24	789	<1	0.2	11	310	3	0.01	4	5	39	0.22	<10	<10	92	<10	73
142	B127	80327	52677	Stf	0.001	<0.2	1.43	4	<10	10	<0.5	<2	1.05	0.7	4	53	14	2.28	10	<1	0.05	<10	0.67	574	<1	0.05	9	350	10	0.01	2	5	56	0.18	<10	<10	38	<10	95
143	B134	80910	52857	Stf	<0.001	<0.2	2.16	2	<10	<10	<0.5	<2	0.51	0.5	11	48	14	3.24	10	<1	0.02	<10	1.62	684	<1	0.03	7	410	5	<0.01	2	3	20	0.07	<10	<10	35	<10	44
144	B136	80052	52972	Cbs	<0.001	<0.2	1.95	<2	<10	10	<0.5	<2	0.61	<0.5	4	59	9	2.23	10	<1	0.08	<10	0.36	346	<1	0.15	4	270	10	<0.01	2	2	24	0.13	<10	<10	42	<10	55
145	B140	73018	54315	Cbs	0.001	<0.2	4.59	<2	10	<10	<0.5	<2	3.14	1	30	25	71	5.19	20	<1	0.1	<10	2.81	1060	<1	0.03	87	340	5	<0.01	<2	6	77	0.17	<10	10	138	<10	61
146	B144	73149	54151	Ls	0.001	<0.2	2.66	<2	<10	10	<0.5	<2	6.37	1.4	20	13	93	5.21	20	<1	0.18	<10	2.12	1755	<1	0.02	17	250	12	0.01	4	22	105	0.32	<10	10	108	<10	84
147	B145	73233	54163	Atf	0.001	<0.2	1.32	<2	<10	20	<0.5	<2	0.82	<0.5	3	30	7	2.01	20	<1	0.07	10	0.84	880	<1	0.04	2	270	7	<0.01	<2	6	17	0.02	<10	<10	5	<10	56
148	B148	73403	54156	Atf	0.001	0.3	1.29	<2	<10	20	<0.5	<2	0.29	<0.5	7	37	14	2.45	10	<1	0.01	<10	0.68	1225	<1	0.05	11	350	6	<0.01	<2	7	74	0.02	<10	<10	23	<10	85
149	B149	73447	54063	Cbs	<0.001	<0.2	2.94	2	<10	<10	<0.5	<2	3.27	1.5	22	61	82	5.64	30	<1	0.02	<10	2.78	1760	<1	0.04	41	460	3	<0.01	2	11	32	0.4	<10	10	176	<10	76
150	B151	73522	53898	Atf	<0.001	0.2	0.8	<2	<10	<10	<0.5	<2	0.14	<0.5	<1	45	1	1.08	10	<1	0.16	10	0.26	151	<1	0.05	2	120	<2	<0.01	<2	3	12	0.02	<10	<10	3	<10	26

Appendix 7 Results of Chemical Analysis for Rock Samples (4)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
151	B153	73812	54100	Cbs	0.001	<0.2	3.54	<2	<10	10	<0.5	<2	2.13	0.9	19	25	39	5.65	20	<1	0.04	<10	1.53	1040	<1	0.03	15	400	3	<0.01	3	20	45	0.36	<10	10	182	<10	74
152	B155	74040	54000	Ls	<0.001	0.6	0.91	3	<10	10	<0.5	8	>15.0	<0.5	3	10	4	0.85	10	<1	0.01	10	1.04	1700	<1	0.02	12	340	<2	0.01	<2	2	651	0.04	<10	10	14	<10	32
153	B159	73888	53244	Ls	0.024	0.5	0.78	3	<10	10	<0.5	4	>15.0	0.7	3	12	3	1.5	<10	<1	0.05	20	0.11	374	<1	0.01	27	330	35	0.01	<2	1	212	0.04	<10	10	24	<10	6
154	B160	73922	53136	Cbs	0.001	0.2	3.63	<2	<10	10	<0.5	<2	2.05	1.1	33	30	62	5.01	20	<1	0.06	<10	4.06	874	<1	0.07	85	340	2	<0.01	3	6	49	0.27	<10	10	156	<10	69
155	B166	73842	52602	Cbs	0.001	<0.2	4.35	5	<10	40	<0.5	<2	2.4	2	17	21	21	6.38	20	<1	0.04	<10	2.28	1695	<1	0.32	3	780	6	<0.01	5	13	121	0.31	<10	10	142	<10	84
156	B167	73979	52255	Ls	0.001	0.6	0.86	41	<10	20	<0.5	5	>15.0	1	8	9	125	1.66	20	<1	0.06	10	0.43	4930	<1	0.01	30	340	27	0.01	2	4	270	0.07	<10	10	46	<10	21
157	B169	73999	52017	Ls	0.001	0.8	0.76	3	<10	<10	<0.5	6	>15.0	1.1	4	7	54	0.93	20	<1	<0.01	<10	1.16	3400	<1	0.01	23	280	36	0.04	<2	1	418	0.05	<10	10	18	<10	15
158	B170	74053	51395	Cbs	0.001	<0.2	4.34	2	<10	70	<0.5	<2	4.91	2.1	32	117	882	6.32	20	<1	0.18	<10	3.93	1005	<1	0.05	59	410	5	0.04	5	25	56	0.25	<10	10	199	<10	72
159	B172	74369	51162	Atf	0.001	0.4	3.86	6	10	20	<0.5	<2	3.74	1.2	13	23	40	4.35	20	<1	0.07	<10	1.36	828	<1	0.02	7	480	7	0.03	5	17	88	0.29	<10	10	129	<10	68
160	B173	73662	51373	Atf	<0.001	<0.2	1.01	<2	<10	20	<0.5	<2	0.09	<0.5	2	65	3	1.74	10	<1	0.1	<10	0.28	370	<1	0.06	5	90	2	<0.01	<2	3	4	0.01	<10	<10	9	<10	66
161	B174	80222	54796	Dci	<0.001	<0.2	0.41	<2	<10	10	<0.5	<2	0.08	<0.5	1	45	3	0.99	<10	<1	0.11	<10	0.07	126	<1	0.06	2	140	2	<0.01	<2	3	4	0.01	<10	<10	3	<10	16
162	B176	80317	54588	Dci	<0.001	<0.2	1.52	<2	<10	30	<0.5	<2	0.2	<0.5	4	37	1	2.58	10	<1	0.14	<10	0.67	383	<1	0.04	4	170	3	<0.01	<2	4	13	0.01	<10	<10	3	<10	107
163	B177	80340	54528	Dci	<0.001	0.2	2.96	<2	<10	20	<0.5	<2	1.99	0.5	3	15	9	1.96	10	<1	0.14	<10	0.63	531	<1	0.01	7	140	3	<0.01	3	4	39	0.08	<10	<10	5	<10	61
164	B182	79958	55169	Cbs	<0.001	0.3	3.18	3	10	20	<0.5	<2	2.48	1.6	29	96	15	5.25	20	<1	0.1	<10	3.44	1495	<1	0.02	79	540	<2	0.01	5	13	14	0.24	<10	10	139	<10	77
165	B188	79975	55510	Dci	<0.001	0.3	3.9	2	<10	<10	<0.5	<2	2.52	<0.5	2	10	1	2.65	20	<1	0.02	<10	0.51	815	<1	0.02	1	500	<2	<0.01	2	8	75	0.13	<10	<10	5	<10	79
166	B194	80161	57653	Gd	<0.001	0.2	3.88	2	20	<10	<0.5	<2	2.46	1	24	36	59	4.47	20	<1	0.05	<10	3.21	736	<1	0.03	93	770	3	<0.01	2	8	32	0.24	<10	10	148	<10	53
167	B198	80778	57430	Stf	0.001	0.2	1.84	2	<10	30	0.7	<2	0.04	<0.5	6	25	10	2.28	10	<1	0.26	20	0.21	621	<1	0.01	8	500	8	<0.01	<2	6	3	<0.01	<10	<10	6	<10	76
168	B199	81357	57669	Cbs	0.001	0.3	3.88	<2	<10	10	<0.5	<2	3.01	1.2	24	71	37	3.51	20	<1	0.08	<10	2.63	476	<1	0.26	100	550	2	<0.01	<2	7	100	0.03	<10	10	100	<10	38
169	B202	78332	54732	Cbs	0.002	<0.2	2.65	2	<10	10	<0.5	<2	1.8	1.4	25	18	46	6.68	20	<1	0.02	<10	2.32	1000	<1	0.04	10	370	4	<0.01	4	32	12	0.25	<10	10	270	<10	82
170	B202K			Cbs	0.002	<0.2	4.24	3	<10	<10	<0.5	<2	2.17	2.9	38	10	83	9.68	30	<1	0.01	<10	4.05	1570	<1	0.02	11	450	3	0.01	5	44	13	0.4	<10	10	317	10	121
171	B203	78332	54736	Cls	0.003	0.5	1.81	7	<10	40	<0.5	2	4.95	1	13	29	152	4.4	10	<1	0.23	<10	1.31	1290	<1	0.05	12	760	11	0.01	4	15	78	0.26	<10	10	141	<10	43
172	B204	78333	54740	Ctf	<0.001	0.3	1.78	5	<10	70	<0.5	<2	0.7	<0.5	5	23	6	2.79	10	<1	0.34	<10	1.56	2190	<1	0.04	5	400	4	<0.01	<2	5	9	0.11	<10	<10	23	<10	427
173	B210	78328	54623	Dcb	<0.001	<0.2	0.67	<2	<10	80	<0.5	<2	1.26	<0.5	5	12	13	1.33	10	<1	0.26	10	0.68	314	<1	0.06	6	980	3	0.01	2	3	25	0.1	<10	<10	31	<10	38
174	B210K			Dcb	0.001	<0.2	0.63	<2	<10	110	0.7	<2	1.24	<0.5	5	25	5	1.26	<10	<1	0.3	10	0.73	280	1	0.08	7	910	3	<0.01	<2	3	33	0.1	<10	<10	28	<10	41
175	B212	76680	53345	Adcp	0.003	<0.2	1.21	<2	<10	390	<0.5	<2	0.01	<0.5	<1	9	1	1.53	<10	<1	0.01	10	0.01	496	<1	0.04	2	20	6	<0.01	3	4	5	0.02	<10	<10	2	<10	31
176	B212K			Adcp	0.038	<0.2	1.21	6	<10	360	<0.5	<2	0.01	<0.5	<1	7	<1	1.55	10	<1	0.01	20	0.01	667	<1	0.04	1	30	5	<0.01	<2	4	3	0.02	<10	<10	2	<10	34
177	B213	76565	53495	Adcl	0.007	0.2	1.36	86	<10	20	<0.5	<2	0.1	<0.5	<1	1	43	2.83	<10	<1	0.18	<10	0.6	362	3	<0.01	1	70	76	0.02	2	3	3	<0.01	<10	<10	2	<10	119
178	B216	73126	52366	Adcl	<0.001	<0.2	1.12	<2	<10	40	<0.5	<2	0.22	<0.5	3	22	1	2.4	10	2	0.1	<10	0.6	982	1	0.04	3	430	2	<0.01	<2	5	8	0.01	<10	<10	15	<10	88
179	B219	72984	52648	Cbs	<0.001	0.3	4.82	<2	<10	<10	1	13	2.23	0.7	29	21	44	4.91	10	2	0.02	<10	3.63	593	<1	0.25	86	300	<2	<0.01	2	2	29	0.23	<10	<10	136	<10	43
180	B220	72947	52718	Atf	<0.001	<0.2	1.65	<2	<10	10	<0.5	<2	0.22	<0.5	2	2	3	2.78	10	<1	0.12	10	0.66	504	<1	0.05	2	150	3	<0.01	<2	5	12	<0.01	<10	<10	5	<10	95
181	B223	72855	53364	Adcp	<0.001	0.7	2.21	6	<10	40	1.4	<2	0.42	<0.5	13	3	83	6.01	10	2	0.34	<10	0.75	358	<1	0.02	6	240	<2	<0.01	2	26	69	0.2	<10	<10	222	<10	93
182	B228	72574	53671	Cbs	<0.001	<0.2	2.91	<2	<10	20	<0.5	3	3.84	1	12	3	10	6.11	10	1	0.19	<10	1.51	1105	<1	0.01	3	570	4	<0.01	4	11	50	0.01	<10	<10	47	<10	95
183	B230	72483	54228	Adcl	<0.001	<0.2	0.47	<2	<10	30	<0.5	<2	0.06	<0.5	1	35	1	1.84	<10	<1	0.06	<10	0.05	998	<1	0.07	2	40	<2	<0.01	2	4	5	0.01	<10	<10	10	<10	67
184	B232	77625	54325	Adcl	0.009	0.3	0.3	18	<10	1050	<0.5	<2	0.33	<0.5	1	21	94	1.71	10	<1	0.16	<10	0.12	3790	1	0.01	2	130	4	0.09	<2	4	19	<0.01	<10	<10	1	<10	136
185	B235	77736	53986	Adcl	0.003	<0.2	0.4	<2	<10	40	<0.5	<2	0.67	<0.5	1	11	2	1.54	<10	<1	0.14	<10	0.16	287	<1	0.04	3	140	4	<0.01	<2	5	8	0.01	<10	<10	8	<10	51
186	B236	77859	53835	Cbs	0.003	0.5	1.53	4	<10	10	1.1	<2	0.55	<0.5	7	15	5	3.52	10	<1	0.05	<10	1.19	980	<1	0.05	1	1120	6	<0.01	<2	12	9	0.17	<10	<10	11	<10	111
187	B237	78544	54308	Cbs	0.001	<0.2	3.01	8	10	<10	0.6	6	2.7	0.9	17	22	61	4.61	10	<1	0.12	<10	1.8	689	<1	0.05	18	320	<2	<0.01	3	13	17	0.11	<10	<10	204	<10	49
188	B241	78618	53988	Cms	0.003	0.4	2.66	11	<10	10	1.2	4	7.21	1.2	15	33	57	4.59	10	<1	0.03	<10	2.47	1180	<1	0.03	31	320	6	0.03	5	12	78	0.23	<10	<10	128	<10	76
189	B244K			Stf	0.005	0.4	2.98	19	<10	10	1.2	6	2.71	1.2	21	19	146	5.82	10	<1	0.02	<10	2.91	1185	<1	0.03	24	230	14	0.15	5	19	33	0.24	<10	<10	188	<10	88
190	B244	78947	53860	Stf	0.002	0.4	3.55	3	<10	10	1.1	7	2.78	1.2	22	12	62	6.57	10	<1	0.06	<10	3.34	1325	<1	0.03	9	180	5	<0.01	<2	20	36	0.22	<10	<10	198	<10	85
191	B245	79132	53864	Cbs	<0.001	0.3	3.01	<2	<10	10	0.8	8	2.66	1	26	24	34	6.72	10	<1	0.03	<10	2.58	1235	<1	0.04	15	170	2	<0.01	3	33	23	0.14	<10	<10	231	<10	75
192	B255	77453	54641	Atf	<0.001	<0.2	0.35	2	<10	110	<0.5	<2	0.1	<0.5	<1	12	1	2.45	<10	<1	0.14	<10	0.04	812	<1	0.05	1	170	2	<0.01	<2	5	6	0.01	<10	<10	2	<10	77
193	B256	77540	54630	Dol	<0.001	0.3	0.69	<2	<10	10	0.5	<2	>15.0	<0.5	3	8	38	1.98	<10	<1	0.07	20	0.28	1065	<1	0.01	15	250	16	<0.01	8	4	215	0.03	<10	<10	28	<10	13
194	B258	77120	54320	Atf	0.001	<0.2	3.83	<2	10	10	1.4	3	4.95	0.5	2	11	3	1.76	20	<1	0.05	10	0.54	498	<1	0.01	6	150	2	<0.01	4	7	46	0.01	<10	<10	23	<10	57
195	B263	77174	54142	Adcl	0.009	<0.2	0.19	5	<10	50	<0.5	<2	0.57	<0.5	<1	33	1	1.95	<10	2	0.01	<10	0.15	750	<1	0.08	2	30	<2	<0.01	<2	6	6	<0.01	<10	<10	1	<10	96
196	B267	77045	53970	Atf	0.01	1.1	0.32	20	<10	170	<0.5	3	1.06	7.7	4	71	109	0.95	<10	<1	0.15	<10	0.17	256	6	0.02	5	130	80	0.67	<2	2	15	<0.01	<10	<10	2	<10	1225
197	B275	80372	53638	Ls	<0.001	0.4	0.47	6	<10	20	0.7	<2	10.8	0.6	1	10	7	1.78	10	<1	0.07	10	0.33	3150	<1	0.01	8	360	9	<0.01	<2	2	114	0.03	<10	<10	11	<10	26
198	B280	75180	55790	Atf	<0.001	0.6	2.56	<2	10	<10	1.2	7	5.75	1.2	31	73	12	5.87	10	<1	0.09	<10	3.08	1200	<1	0.04	73	360	3	<0.01	7	19	48	0.28	<10	<10	183	<10	70
199	B282	75100	55360	Atf	0.001	<0.2	3.14	<2	<10	30	0.5	<2	1.96	<0.5	1	16	5	1.31	10	<1	0.12	<10	0.25	543	<1	0.05	4	160	6	<0.01	2	3	108	0.02	<10	<10	7	<10	70
200	B284	74790	55310	Atf	<0.001	0.3	3.45	2	<10	30	1.1	5	1.51	0.5	4	16	6	2.14	10	<1	0.12	10	0.41	773	<1	0.04	19	90	5	<0.01	<2	8	120	0.06	<10	<10	14	<10	90

Appendix 7 Results of Chemical Analysis for Rock Samples (5)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
201	B287	54560	56200	Atf	0.001	0.4	3.07	3	20	30	1	<2	4.41	1.1	24	73	12	5.62	10	<1	0.06	<10	2.33	1015	<1	0.04	34	510	<2	<0.01	2	24	28	0.17	<10	<10	196	<10	63
202	C002	74374	54416	Atf	0.006	0.2	2.22	<2	<10	50	0.5	<2	8.72	0.7	16	3	32	2.8	10	<1	0.22	10	1.51	2110	<1	0.01	24	200	20	<0.01	<2	17	49	0.01	<10	<10	45	<10	113
203	C006	75488	53851	Adcp	0.001	<0.2	0.27	8	<10	<10	<0.5	<2	1	<0.5	1	8	2	2.12	<10	<1	0.08	<10	0.27	854	1	0.06	2	150	6	<0.01	3	11	9	0.02	<10	<10	4	<10	63
204	C008	75837	53430	Adcp	<0.001	<0.2	0.26	3	<10	<10	<0.5	<2	0.3	<0.5	1	13	13	2.53	<10	<1	0.02	<10	0.31	442	1	0.08	1	90	2	<0.01	2	6	5	0.03	<10	<10	15	<10	92
205	C009-2	75937	53337	Adcp	<0.001	<0.2	0.23	<2	<10	10	<0.5	<2	0.03	<0.5	<1	4	1	4.87	<10	<1	0.06	<10	0.02	112	1	0.07	1	30	9	<0.01	<2	7	4	0.03	<10	<10	5	<10	13
206	C009-2	75937	53337	Adcp	<0.001	<0.2	0.39	<2	<10	10	<0.5	<2	0.63	<0.5	1	4	6	3.49	<10	<1	0.09	<10	0.11	231	<1	0.08	3	60	5	<0.01	2	6	14	0.03	<10	<10	12	<10	19
207	C010	76397	52844	Adcl	0.002	<0.2	1.99	11	<10	1280	<0.5	<2	0.05	<0.5	<1	4	13	2.94	10	<1	0.21	<10	1.17	861	1	0.02	1	140	4	0.06	<2	5	13	<0.01	<10	<10	3	<10	282
208	C011	76951	52749	Cbs	<0.001	<0.2	3.85	8	<10	30	<0.5	5	0.86	0.9	28	5	18	8.38	20	2	<0.01	<10	3.8	2880	<1	0.03	6	410	13	<0.01	3	36	14	0.06	<10	<10	284	<10	174
209	C012	76872	52803	Atf	0.001	<0.2	1.38	<2	<10	200	<0.5	<2	0.88	<0.5	3	10	8	1.98	<10	<1	0.13	10	1.01	758	1	0.03	4	190	3	<0.01	3	6	7	<0.01	<10	<10	17	<10	142
210	C014	77913	52267	Stf	0.001	0.3	2.15	4	<10	30	1.2	<2	0.56	<0.5	12	13	30	3.28	10	<1	0.04	<10	1.45	750	1	0.04	8	330	4	<0.01	<2	6	25	0.22	<10	<10	45	<10	75
211	C017	76023	52487	Cbs	0.006	<0.2	2.74	5	<10	20	<0.5	<2	2.44	1	29	16	130	6.65	20	<1	0.05	10	2.73	813	<1	0.04	12	250	<2	<0.01	<2	21	9	0.2	<10	120	266	<10	87
212	C018	76166	52504	Adcl	0.001	<0.2	0.34	2	<10	450	<0.5	<2	0.6	<0.5	1	35	2	0.72	<10	<1	0.16	10	0.07	186	<1	0.04	2	180	<2	<0.01	<2	2	12	<0.01	<10	<10	6	<10	14
213	C019	76339	51858	Atf	0.005	<0.2	3.06	4	<10	40	<0.5	<2	2.74	1.1	28	7	197	7.74	40	<1	0.01	10	2.79	1702	<1	0.04	8	310	<2	<0.01	<2	25	<1	0.02	<10	100	338	<10	91
214	C020	76992	51956	Adcp	0.001	<0.2	2.82	3	<10	10	<0.5	<2	3.31	0.9	31	6	222	7.53	30	<1	0.03	10	2.15	1150	1	0.04	11	490	<2	<0.01	<2	18	<1	0.08	<10	70	275	10	99
215	C023	76925	53320	Adcp	<0.001	<0.2	0.74	4	<10	70	<0.5	<2	0.07	<0.5	1	1	2	1.53	10	<1	0.07	10	0.03	393	<1	0.03	<1	40	<2	<0.01	<2	4	6	0.02	<10	<10	4	<10	211
216	C024	76544	53455	Adcp	0.022	6.8	0.43	20	<10	10	<0.5	<2	0.06	<0.5	2	14	224	5.59	<10	<1	0.12	10	0.09	41	11	0.01	3	70	106	4.54	<2	1	<1	<0.01	<10	<10	9	<10	27
217	C027	75672	53913	Adcp	0.001	<0.2	0.36	<2	<10	40	<0.5	<2	1.88	<0.5	1	11	4	1.81	10	<1	0.13	<10	0.64	1019	1	0.03	1	110	5	<0.01	<2	5	31	<0.01	<10	<10	3	<10	110
218	C029	76412	54522	Adcp	<0.001	<0.2	0.36	<2	<10	90	<0.5	<2	0.23	<0.5	2	9	9	2.52	10	<1	0.1	<10	0.15	576	<1	0.05	<1	130	<2	<0.01	<2	5	<1	0.01	<10	<10	12	<10	112
219	C030	76749	54378	Atf	0.015	1.4	0.23	24	<10	40	<0.5	<2	0.27	5.6	3	55	256	2.42	<10	<1	0.09	<10	0.17	264	1	0.04	5	30	146	1.69	<2	3	3	<0.01	<10	<10	6	<10	1483
220	C031	76929	54263	Adcp	<0.001	0.6	0.22	17	<10	190	<0.5	<2	0.24	3	2	19	6	0.88	<10	<1	0.04	<10	0.15	170	1	0.07	1	90	40	0.2	<2	3	7	0.01	<10	<10	2	<10	617
221	C032	77791	53287	Cbs	0.001	<0.2	3.37	<2	<10	30	<0.5	<2	2.56	1.1	28	4	279	7.37	30	<1	0.05	10	2.34	1191	<1	0.03	9	280	<2	0.03	<2	26	4	0.01	<10	100	317	10	96
222	C033	78277	53410	Cbs	<0.001	0.3	3.54	<2	<10	<10	<0.5	<2	1.83	0.8	29	22	137	6.51	30	<1	0.03	10	2.86	1494	<1	0.03	13	230	<2	<0.01	<2	30	4	0.01	<10	50	246	<10	93
223	C035	78318	52953	Dci	0.001	<0.2	1.54	<2	<10	<10	<0.5	<2	0.12	<0.5	3	13	7	2.34	10	<1	0.09	10	1.05	409	<1	0.03	1	70	<2	<0.01	<2	3	3	0.01	<10	<10	17	<10	82
224	C037	79274	52406	Gd	<0.001	<0.2	1.35	<2	<10	20	<0.5	<2	0.91	<0.5	7	28	3	2.43	10	<1	0.07	10	0.74	739	<1	0.04	2	440	5	0.01	<2	3	13	0.04	<10	<10	31	<10	75
225	C038	79696	52465	Cbs	0.003	<0.2	3.54	4	<10	50	<0.5	<2	2.04	<0.5	21	14	53	4.92	20	<1	0.05	10	2.33	534	1	0.28	14	200	5	0.02	<2	7	45	0.26	<10	40	165	<10	70
226	C038K			Cbs	<0.001	<0.2	3.7	<2	<10	20	<0.5	<2	1.76	<0.5	22	11	47	5.02	20	1	0.05	10	2.4	568	<1	0.29	12	210	<2	<0.01	<2	8	43	0.25	<10	40	172	<10	64
227	C041	80332	52439	Stf	0.014	<0.2	0.87	<2	<10	20	<0.5	<2	>15.0	<0.5	5	13	10	1.95	30	<1	0.43	10	0.57	2179	<1	0.06	21	380	7	<0.5	<2	2	221	0.05	<10	<10	31	<10	23
228	C044	80657	52080	Cbs	0.002	<0.2	1.12	<2	<10	<10	<0.5	<2	0.71	<0.5	9	19	11	4.99	<10	<1	0.03	<10	0.59	317	<1	0.16	7	290	2	<0.01	4	5	26	0.13	<10	<10	241	<10	24
229	C046	81154	51354	Kgd	0.002	0.2	1.69	6	<10	70	0.6	<2	0.78	<0.5	10	28	125	3.19	<10	<1	0.27	<10	0.71	363	2	0.16	9	870	11	<0.01	2	4	66	0.16	<10	<10	139	<10	48
230	C049	87696	59313	Cbs	0.001	<0.2	0.52	<2	<10	10	<0.5	<2	1.25	<0.5	3	35	7	2.06	<10	<1	0.08	<10	0.25	306	1	0.06	3	340	3	<0.01	4	4	16	0.03	<10	<10	27	<10	39
231	C053	79972	54722	Cbs	0.001	0.3	5.94	<2	<10	<10	0.5	<2	3.13	0.9	23	48	78	3.99	10	<1	0.02	<10	2.66	593	<1	0.38	96	320	3	<0.01	5	4	90	0.21	<10	<10	101	<10	52
232	C054	80527	55260	Dci	<0.001	<0.2	0.58	4	<10	20	<0.5	<2	0.35	<0.5	3	3	6	1.13	<10	1	0.13	<10	0.19	203	<1	0.03	3	170	6	<0.01	<2	2	18	0.01	<10	<10	3	<10	83
233	C056	81341	55200	Cms	0.004	0.4	0.69	13	<10	20	0.5	<2	>15.0	<0.5	4	3	35	0.74	<10	1	0.21	10	0.32	1760	<1	0.01	15	300	13	<0.01	8	3	314	0.07	<10	10	10	<10	17
234	C058	81675	55361	Cbs	0.001	0.8	2.72	2	<10	20	1	<2	0.82	0.6	30	14	56	7.68	10	<1	0.01	<10	2.36	1400	<1	0.05	18	310	2	<0.01	<2	33	19	0.29	<10	<10	237	<10	77
235	C064	86282	56583	Sss	<0.001	0.7	2.33	<2	10	10	1.7	<2	1.33	0.9	14	2	16	7.06	20	<1	0.03	<10	1.17	1090	1	0.03	2	1530	5	<0.01	5	27	15	0.36	<10	<10	76	<10	121
236	C065	83893	55487	Cbs	0.001	0.5	2.86	<2	<10	<10	0.6	<2	2.61	0.7	31	18	115	7.03	10	<1	0.01	<10	1.83	1490	<1	0.02	10	430	3	0.01	<2	11	26	0.2	<10	<10	284	<10	99
237	C066	84127	55633	Cbs	<0.001	0.4	2.41	16	10	10	0.5	<2	1.7	0.9	39	9	40	8.73	10	<1	0.24	<10	1.52	1335	<1	0.08	31	410	3	<0.01	<2	17	37	0.17	<10	<10	198	<10	128
238	C068	84300	55762	Dci	0.001	<0.2	0.6	<2	<10	20	0.5	<2	0.37	<0.5	2	41	4	1.61	<10	<1	0.07	<10	0.2	200	1	0.06	4	170	5	<0.01	3	5	13	0.02	<10	<10	14	<10	35
239	C069	83493	55623	Cbs	<0.001	0.5	4.71	<2	<10	10	0.6	<2	0.77	1	41	7	37	8	10	<1	0.04	<10	3.23	1160	<1	<0.01	14	270	<2	<0.01	3	15	39	0.17	<10	<10	249	<10	171
240	C072	82114	55177	Stf	0.002	0.2	1.5	12	<10	80	0.5	<2	13.7	0.8	11	3	120	3.53	<10	<1	0.2	10	0.87	1740	<1	0.05	33	430	23	<0.01	2	10	337	0.06	<10	<10	31	<10	72
241	C073	82402	55171	Cbs	<0.001	0.6	5.71	4	30	10	0.7	<2	6.34	1.7	30	15	93	7.85	20	<1	0.01	<10	2.37	1195	<1	0.03	18	290	<2	0.01	<2	31	20	0.17	<10	<10	319	<10	93
242	C074	82510	54911	Dci	<0.001	<0.2	1.03	<2	<10	60	<0.5	<2	0.72	<0.5	6	20	30	1.39	<10	<1	0.22	<10	0.61	225	<1	0.1	14	420	2	<0.01	2	4	28	0.09	<10	<10	32	<10	41
243	C076	82480	54300	Cbs	0.004	0.7	1.84	4	<10	<10	1	2	1.7	0.8	15	6	21	5.8	10	<1	0.02	<10	1.62	1640	<1	0.05	3	630	6	0.13	4	17	16	0.28	<10	<10	96	<10	117
244	C081	83139	54197	Dci	<0.001	<0.2	0.41	2	<10	10	<0.5	<2	0.09	<0.5	1	21	1	0.58	<10	<1	0.11	10	0.11	410	1	0.05	2	110	5	<0.01	<2	1	5	0.04	<10	<10	4	<10	21
245	C082	83101	55438	Cbs	0.001	0.2	2.12	5	<10	10	<0.5	<2	1.48	<0.5	12	39	73	5.67	10	<1	0.12	<10	1.19	1235	<1	0.04	4	390	3	<0.01	10	10	18	0.01	<10	<10	23	<10	97
246	C083	76605	51831	Cbs	0.002	0.8	4.44	5	10	<10	1	<2	2.17	1.2	32	21	207	7.54	10	<1	0.01	<10	2.71	1520	<1	0.02	13	260	<2	<0.01	<2	29	14	0.36	<10	<10	284	<10	88
247	C084	76395	51386	Adcl	<0.001	<0.2	0.82	<2	<10	40	<0.5	<2	0.13	<0.5	2	48	1	1.77	<10	<1	0.16	<10	0.25	417	<1	0.04	2	400	3	<0.01	<2	3	8	<0.01	<10	<10	2	<10	55
248	C084K			Adcl	<0.001	<0.2	1.1	<2	<10	40	<0.5	<2	0.15	<0.5	1	38	1	2.35	<10	<1	0.15	<10	0.34	408	<1	0.04	2	390	3	<0.01	<2	4	11	<0.01	<10	<10	2	<10	83
249	C085	76909	50963	Cbs	0.002	1.4	3.93	<2	<10	20	<0.5	<2	1.07	0.7	17	24	8	7.32	10	<1	0.1	<10	2.06	2280	<1	0.02	4	660	14	0.08	6	15	33	<0.01	<10	<10	157	<10	130
250	C086	77299	50685	Cbs	0.002	0.7	3.95	13	<10	20	0.8	<2	2.17	1.2	29	99	53	5.56	10	<1	0.04	<10	3.41	2400	<1	0.17	51	330	5	<0.01	<2	6	41	0.29	<10	<10	142	<10	134

Appendix 7 Results of Chemical Analysis for Rock Samples (6)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
251	C088	77599	51467	Dci	<0.001	<0.2	1.01	<2	<10	40	<0.5	<2	0.13	<0.5	4	54	3	2.38	<10	<1	0.1	10	0.44	757	<1	0.05	3	450	6	<0.01	<2	3	10	<0.01	<10	<10	15	<10	49
252	C089	77691	51434	Dci	<0.001	<0.2	1.4	2	<10	40	<0.5	<2	0.25	<0.5	6	38	9	2.03	<10	<1	0.1	<10	0.55	567	1	0.04	4	410	7	<0.01	<2	4	20	0.06	<10	<10	18	<10	55
253	C091	78045	51955	Cbs	0.001	0.4	5.74	2	<10	<10	0.7	<2	2.92	0.8	27	60	80	4.49	10	<1	0.02	<10	2.67	585	<1	0.29	93	620	<2	<0.01	<2	3	100	0.25	<10	<10	140	<10	62
254	C093	77997	52124	Stf	<0.001	0.4	2.44	2	<10	20	0.8	<2	0.52	<0.5	14	38	41	3.3	10	<1	0.03	<10	1.64	608	<1	0.03	9	380	3	<0.01	<2	7	24	0.22	<10	<10	58	<10	73
255	C094	83571	53467	kDr	<0.001	0.2	2.08	2	<10	10	<0.5	<2	0.19	<0.5	21	49	19	3.51	10	<1	0.01	<10	1.79	1555	<1	0.04	9	160	2	<0.01	<2	6	15	0.04	<10	<10	63	<10	78
256	C095	83307	53455	kDr	0.001	1	2.46	<2	<10	10	1.1	<2	0.66	0.6	23	31	98	5.23	10	<1	0.08	<10	2	733	<1	0.05	14	420	3	<0.01	5	9	19	0.36	<10	<10	179	<10	87
257	C096	84002	53305	Cbs	0.001	0.2	1.17	3	<10	20	<0.5	<2	0.75	<0.5	6	92	80	5.18	<10	<1	0.06	<10	0.78	459	1	0.07	5	540	3	0.37	<2	6	16	0.05	<10	<10	13	<10	27
258	C097	78062	52165	Stf	0.001	0.7	2.48	2	<10	20	0.8	<2	1.28	0.6	14	38	38	4.23	10	<1	0.05	10	1.95	1095	<1	0.04	8	480	3	<0.01	6	12	24	0.2	<10	<10	85	<10	76
259	C098	78160	51648	Dci	<0.001	<0.2	1.35	5	<10	50	<0.5	<2	0.21	<0.5	6	26	3	1.9	<10	<1	0.1	10	0.45	598	<1	0.04	3	440	5	<0.01	<2	3	14	0.02	<10	<10	17	<10	52
260	C099	78248	51414	Dci	<0.001	<0.2	1.02	<2	<10	30	<0.5	<2	0.3	<0.5	5	49	2	1.86	<10	<1	0.09	<10	0.48	524	<1	0.05	3	440	3	<0.01	<2	2	17	0.05	<10	<10	18	<10	43
261	C102	78715	51173	Stf	0.118	<0.2	1.02	3	<10	20	<0.5	<2	0.25	<0.5	1	9	5	0.32	<10	<1	0.01	<10	0.09	66	<1	0.04	2	20	7	0.01	<2	1	20	0.02	<10	<10	5	<10	19
262	C103	78930	51065	Cdb	0.003	0.2	2.81	2	<10	20	<0.5	<2	1.29	0.5	9	68	18	3.92	10	<1	0.05	<10	0.77	246	1	0.36	4	390	2	0.01	<2	4	63	0.11	<10	<10	199	<10	33
263	C105	79329	50993	Stf	<0.001	0.2	0.95	<2	<10	10	0.5	<2	0.45	<0.5	2	44	4	0.93	<10	<1	0.04	<10	0.18	221	<1	0.06	3	420	2	<0.01	<2	2	26	0.12	<10	<10	29	<10	17
264	C106	80002	50862	Stf	<0.001	0.2	0.98	6	<10	10	0.6	<2	0.21	<0.5	7	47	6	1.83	<10	2	0.04	<10	0.53	189	1	0.05	5	270	2	<0.01	<2	3	6	0.17	<10	<10	49	<10	24
265	C107	79718	50837	Kgd	0.001	<0.2	1.27	<2	<10	<10	<0.5	<2	0.59	<0.5	5	70	11	2.03	<10	1	0.04	<10	0.39	180	<1	0.12	5	330	4	0.01	<2	2	39	0.08	<10	<10	34	<10	22
266	C108	79509	50811	Stf	0.001	0.2	1.36	3	<10	<10	0.6	<2	0.81	<0.5	6	74	25	2.91	<10	<1	0.07	<10	0.53	324	1	0.17	6	380	5	<0.01	<2	4	21	0.16	<10	<10	74	<10	32
267	C110	79171	52184	Cbs	<0.001	0.4	6.81	<2	<10	10	0.5	<2	3.3	1.6	29	27	26	6.01	10	<1	0.04	<10	4.04	947	<1	0.34	15	250	4	0.07	8	7	83	0.21	<10	<10	185	<10	65
268	C112	80158	51706	Stf	<0.001	0.2	1.08	4	<10	<10	0.5	<2	0.39	<0.5	10	56	84	3.32	<10	<1	0.07	<10	0.39	185	<1	0.06	9	470	9	0.02	3	3	13	0.14	<10	<10	133	<10	22
269	C114	80294	51424	kDr	0.002	<0.2	7.24	<2	<10	10	<0.5	<2	4.47	<0.5	5	32	90	2.66	10	<1	0.05	<10	0.25	190	<1	0.66	8	300	<2	0.06	8	2	231	0.05	<10	<10	115	<10	10
270	C118	79927	52019	Dci	0.001	1.7	0.48	39	<10	470	0.5	<2	0.68	1.3	3	77	9	0.72	<10	<1	0.24	10	0.12	295	1	0.02	5	340	49	0.31	<2	2	15	0.01	<10	<10	6	<10	130
271	C119	78381	54854	Adcp	<0.001	<0.2	0.88	<2	<10	530	<0.5	<2	0.5	<0.5	<1	63	20	3.13	10	<1	0.04	10	0.35	2620	1	0.06	4	240	8	0.01	<2	3	15	0.03	<10	<10	16	<10	81
272	C130	78440	54915	Adcl	<0.001	<0.2	0.31	4	<10	10	<0.5	<2	0.12	<0.5	<1	56	2	1.26	<10	<1	0.02	<10	0.08	79	1	0.06	3	230	3	<0.01	<2	2	3	0.01	<10	<10	14	<10	11
273	C137	76452	53382	Adcl	0.001	0.2	0.69	7	<10	1300	<0.5	<2	0.07	<0.5	1	10	82	1.61	<10	<1	0.11	10	0.27	117	2	<0.01	1	70	78	0.1	<2	2	6	<0.01	<10	<10	3	<10	67
274	C140	78761	52351	Stf	<0.001	<0.2	0.9	2	<10	10	<0.5	<2	0.15	<0.5	1	54	2	1.85	10	<1	0.04	<10	0.56	707	<1	0.04	5	60	3	<0.01	<2	4	5	0.01	<10	<10	7	<10	72
275	C142	78553	52162	Sls	<0.001	<0.2	0.42	9	<10	90	<0.5	<2	3.65	<0.5	2	42	16	0.99	<10	<1	0.18	20	0.13	419	<1	0.01	3	140	7	0.01	3	3	66	<0.01	<10	<10	2	<10	26
276	C147	78779	52053	Dci	<0.001	0.3	1.07	2	<10	20	<0.5	<2	1.25	0.5	4	67	49	2.28	10	<1	0.13	10	0.49	802	1	0.05	4	470	30	<0.01	3	3	21	<0.01	<10	<10	17	<10	117
277	C148	78787	51938	Stf	<0.001	0.5	4.42	<2	<10	40	0.5	<2	4.67	1.5	26	119	77	5.63	10	<1	0.06	<10	4.49	1720	<1	0.03	37	420	4	<0.01	4	20	72	0.14	<10	<10	179	<10	70
278	C150	79200	53480	dci	<0.001	<0.2	0.64	6	<10	10	<0.5	<2	0.38	<0.5	3	56	2	1.98	<10	<1	0.09	<10	0.35	313	<1	0.04	3	230	<2	<0.01	2	3	13	0.02	<10	<10	8	<10	44
279	C153	79608	53371	dci	<0.001	<0.2	0.56	2	<10	50	<0.5	<2	1.19	<0.5	3	61	9	1.82	<10	<1	0.06	<10	0.24	303	<1	0.06	5	180	5	0.02	<2	6	10	<0.01	<10	<10	7	<10	61
280	C157	79611	53372	Stf	<0.001	0.2	1.41	3	<10	20	<0.5	3	3.47	<0.5	5	55	24	2.5	<10	3	0.07	<10	0.82	926	<1	0.03	8	220	7	<0.01	<2	6	89	0.01	<10	<10	15	<10	79
281	C157K			Stf	<0.001	<0.2	1.72	4	<10	50	<0.5	<2	4.65	0.8	4	40	12	3.16	10	<1	0.09	<10	0.86	925	<1	0.01	5	250	6	<0.01	3	6	119	<0.01	<10	<10	6	<10	110
282	C158	79517	52798	Stf	<0.001	<0.2	0.71	2	<10	10	<0.5	<2	0.98	<0.5	1	94	2	1.17	<10	<1	0.08	<10	0.5	713	<1	0.06	5	80	3	<0.01	3	4	19	<0.01	<10	<10	2	<10	32
283	C159	78897	52576	Dci	<0.001	<0.2	0.64	3	<10	10	<0.5	<2	1.01	<0.5	3	52	1	1.53	<10	<1	0.08	<10	0.38	395	<1	0.03	3	220	3	<0.01	<2	3	38	0.01	<10	<10	9	<10	38
284	C161	79026	53288	Dci	<0.001	<0.2	0.43	3	<10	10	<0.5	<2	0.75	<0.5	3	54	13	2.02	<10	<1	0.02	<10	0.19	443	<1	0.07	3	240	3	<0.01	<2	5	7	0.02	<10	<10	15	<10	37
285	C163	78730	53538	Cbs	0.003	0.3	1.84	7	<10	<10	<0.5	<2	3.28	0.6	26	33	138	3.8	<10	<1	0.01	<10	2.13	922	<1	0.03	43	190	<2	<0.01	<2	6	58	0.11	<10	<10	99	<10	44
286	C168	76647	53929	Atf	<0.001	0.2	1.54	<2	<10	280	0.8	<2	0.43	<0.5	<1	5	1	1.65	<10	<1	0.19	<10	0.81	559	<1	0.01	1	110	4	0.01	3	7	15	<0.01	<10	<10	1	<10	89
287	C170	76249	55000	Adcp	<0.001	<0.2	0.24	3	<10	70	<0.5	<2	0.05	<0.5	<1	40	<1	1.79	<10	<1	0.08	<10	0.03	493	<1	0.06	2	90	3	<0.01	<2	2	4	0.01	<10	<10	1	<10	70
288	C171	75898	54907	Atf	<0.001	<0.2	0.26	5	<10	80	<0.5	<2	0.09	<0.5	<1	45	3	2.14	<10	<1	0.13	<10	0.03	788	<1	0.03	3	70	6	<0.01	<2	6	5	<0.01	<10	<10	1	<10	87
289	C172	75733	54981	Atf	<0.001	<0.2	0.28	<2	<10	10	<0.5	<2	0.04	<0.5	1	20	7	2.49	<10	<1	0.07	<10	0.03	354	1	0.04	1	110	<2	<0.01	2	7	4	<0.01	<10	<10	1	<10	46
290	C172K			Atf	<0.001	<0.2	0.35	<2	<10	40	<0.5	<2	0.03	<0.5	1	21	4	2.26	<10	<1	0.11	<10	0.04	370	1	0.06	2	100	<2	<0.01	<2	6	5	<0.01	<10	<10	2	<10	42
291	C174	80852	54726	Cbs	<0.001	0.3	3.08	3	<10	<10	0.6	<2	2.07	1.1	21	41	26	4.95	10	<1	0.05	<10	2.21	1090	<1	0.12	51	500	3	<0.01	4	7	36	0.19	<10	<10	171	<10	46
292	C175	80958	54315	Stf	<0.001	<0.2	2.49	<2	<10	100	<0.5	<2	1.02	<0.5	3	37	5	2.03	<10	<1	0.25	<10	0.52	405	<1	0.03	5	170	4	0.01	4	4	124	0.01	<10	<10	8	<10	69
293	C177	76230	53941	Adcl	0.022	7.7	0.18	5	<10	1590	<0.5	<2	0.02	<0.5	<1	52	1	0.19	<10	<1	0.06	<10	0.02	17	<1	<0.01	2	10	14	0.11	2	<1	27	<0.01	<10	<10	1	<10	54
294	C180	75642	54103	Adcl	<0.001	0.7	4.81	2	10	20	1.3	<2	3.55	1.7	26	26	81	5.38	10	<1	0.03	<10	2.29	789	<1	0.03	42	390	<2	<0.01	5	16	31	0.45	<10	<10	227	<10	72
295	C185	75480	54266	Atf	<0.001	0.2	0.4	3	<10	170	0.5	3	1.64	<0.5	1	36	3	1.08	<10	<1	0.09	<10	0.11	951	<1	0.02	3	20	2	<0.01	<2	5	6	<0.01	<10	<10	3	<10	40
296	C186	74606	54340	Atf	<0.001	<0.2	0.36	4	<10	120	0.5	<2	1.73	<0.5	<1	33	2	1.55	<10	<1	0.27	<10	0.19	703	<1	0.01	2	190	3	<0.01	<2	4	33	<0.01	<10	<10	<1	<10	51
297	D005	74294	54395	Atf	<0.001	0.3	1.84	5	<10	30	0.6	<2	4.08	<0.5	5	11	19	1.72	<10	<1	0.23	10	0.94	1495	<1	0.23	19	280	7	0.01	<2	4	24	0.09	<10	<10	19	<10	51
298	D006	74295	54371	Ls	<0.001	0.4	0.75	8	<10	20	0.6	<2	10.15	0.6	3	7	21	2.51	<10	<1	0.18	10	0.43	1900	<1	0.03	14	360	20	0.01	3	4	97	0.09	<10	<10	28	<10	21
299	D007	74301	54356	Atf	<0.001	0.2	1.06	7	<10	40	1	3	4.11	<0.5	3	8	18	0.89	<10	<1	0.3	<10	0.54	906	<1	0.01	35	240	10	<0.01	5	4	27	0.06	<10	<10	7	<10	44
300	D008	75270	53389	Dci	<0.001	<0.2	0.25	3	<10	80	<0.5	<2	2.92	<0.5	1	44	3	2.36	<10	<1	0.04	<10	0.09	696	<1	0.07	3	80	6	<0.01	<2	6	26	0.01	<10	<10	3	<10	49

Appendix 7 Results of Chemical Analysis for Rock Samples (7)

No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
301	D009	75301	53390	Atf	<0.001	<0.2	0.69	2	<10	50	<0.5	<2	2.03	<0.5	2	36	4	2.35	10	<1	0.33	<10	0.47	997	<1	0.04	2	210	3	<0.01	<2	8	23	0.02	<10	<10	6	<10	99
302	D011	75730	52230	Adcl	<0.001	<0.2	0.38	4	<10	20	<0.5	<2	2.81	<0.5	2	16	3	2.2	<10	<1	0.08	10	0.33	576	1	0.06	3	200	4	<0.01	<2	5	26	0.02	<10	<10	7	<10	61
303	D012	78187	57113	Cbs	<0.001	0.2	1.66	3	<10	20	<0.5	<2	1.37	<0.5	9	13	8	5.02	20	<1	0.05	10	1.17	1190	<1	0.08	2	1070	<2	<0.01	3	19	12	0.2	<10	<10	34	<10	83
304	D013	78114	56941	Ad	<0.001	0.3	2.49	2	10	<10	<0.5	<2	2.78	<0.5	8	20	7	5.01	20	<1	0.02	<10	0.93	1275	<1	0.05	1	1090	2	<0.01	<2	18	15	0.28	<10	<10	44	<10	93
305	D014	77638	57077	Ad	<0.001	0.2	3.41	13	20	10	<0.5	<2	7.05	1.2	21	43	23	5.17	20	<1	0.02	<10	2.12	1080	<1	0.04	40	390	3	0.01	<2	18	46	0.26	<10	10	237	<10	56
306	D015	77502	56959	Cbs	0.001	0.2	2.7	3	<10	30	<0.5	<2	5.35	0.5	38	88	83	5.1	20	<1	0.02	<10	2.63	1730	<1	0.04	81	400	7	<0.01	3	28	32	0.29	<10	10	200	<10	75
307	D016	77482	56942	Ls	0.002	0.3	0.64	2	<10	20	<0.5	<2	>15.0	<0.5	4	5	32	1.15	10	<1	0.03	10	0.47	2130	<1	0.01	16	200	17	0.01	<2	2	393	0.02	<10	10	21	<10	14
308	D018	77011	56701	Stf	0.009	<0.2	0.41	2	<10	60	<0.5	2	0.38	<0.5	2	32	1	0.94	<10	<1	0.06	<10	0.07	106	<1	0.03	2	50	3	<0.01	<2	4	5	<0.01	<10	<10	10	<10	33
309	D019	76476	56231	Cbs	<0.001	<0.2	2.66	7	10	<10	<0.5	<2	5.69	0.8	27	52	12	5.77	20	1	0.01	<10	1.84	885	<1	0.05	25	280	4	<0.01	3	22	34	0.21	<10	10	177	<10	58
310	D020	77975	55469	Cbs	0.001	0.3	1.91	<2	10	<10	<0.5	<2	7.09	<0.5	19	63	18	3.46	10	<1	0.05	<10	1.68	546	<1	0.04	48	300	3	0.01	3	5	39	0.14	<10	10	81	<10	44
311	D021	77678	55368	Adcp	<0.001	<0.2	0.98	<2	<10	100	<0.5	<2	0.12	<0.5	2	13	5	2.14	<10	<1	0.06	<10	0.07	764	<1	0.04	3	40	4	0.01	<2	5	2	0.01	<10	<10	6	<10	32
312	D022	77166	55415	Ctf	<0.001	<0.2	0.49	<2	<10	10	1.2	<2	0.41	<0.5	1	5	1	1.16	<10	<1	0.17	10	0.09	65	<1	0.01	2	40	<2	<0.01	<2	4	9	<0.01	<10	<10	2	<10	24
313	D023	77107	55402	Cls	<0.001	0.2	0.34	36	<10	30	<0.5	3	>15.0	<0.5	3	3	50	0.94	10	<1	0.04	10	0.22	5050	<1	0.01	17	210	30	0.01	<2	2	323	0.03	<10	10	18	<10	20
314	D024	77094	55383	Atf	<0.001	0.2	1	5	<10	30	<0.5	<2	3.16	<0.5	4	3	<1	0.28	10	<1	0.22	10	0.83	1390	<1	0.01	16	170	3	<0.01	<2	6	31	<0.01	<10	<10	4	<10	108
315	D025	77170	55371	Cbs	<0.001	0.3	4.77	<2	<10	20	<0.5	<2	3.43	0.6	38	105	7	6.76	30	1	0.06	<10	4.32	2230	<1	0.02	101	400	4	<0.01	<2	23	31	<0.01	<10	10	187	<10	91
316	D026	77062	56243	Cbs	<0.001	0.3	2.74	2	<10	10	<0.5	<2	1.57	0.5	30	48	55	5.06	20	<1	0.06	<10	3.21	928	<1	0.03	65	330	<2	0.01	4	10	20	0.24	<10	<10	109	<10	67
317	D027	76889	56243	Cbs	<0.001	0.3	3.54	<2	<10	<10	<0.5	2	1.25	<0.5	26	16	80	5.77	20	<1	0.04	<10	3.56	1320	<1	0.07	21	260	<2	<0.01	3	14	16	0.31	<10	10	206	<10	69
318	D028	76571	56151	Cls	0.001	0.2	0.31	7	<10	170	<0.5	4	>15.0	<0.5	4	5	30	0.88	10	<1	0.06	<10	0.15	2550	<1	0.01	18	220	45	<0.01	<2	2	384	0.01	<10	10	16	<10	10
319	D029	76502	56073	Atf	<0.001	<0.2	0.71	82	<10	100	0.6	<2	2.35	<0.5	1	15	6	1.61	10	<1	0.18	<10	0.23	7120	<1	0.02	3	20	4	<0.01	<2	9	89	<0.01	<10	<10	2	<10	32
320	D030	76538	56061	Atf	<0.001	0.2	0.67	7	<10	90	<0.5	<2	3.6	<0.5	3	13	4	0.78	20	<1	0.09	<10	1.39	6810	<1	0.02	7	60	<2	<0.01	<2	8	42	<0.01	<10	<10	24	<10	121
321	D031	76461	56046	Cbs	<0.001	0.4	0.54	90	<10	90	<0.5	<2	4.38	<0.5	4	61	3	2.1	30	<1	0.04	<10	1.46	10000	1	0.03	10	130	7	<0.01	<2	7	59	0.02	<10	10	8	<10	124
322	D032	76495	56024	Atf	0.001	<0.2	0.33	3	<10	2600	<0.5	<2	2.07	<0.5	1	42	2	1.15	20	<1	0.04	<10	0.61	6300	<1	0.04	4	150	<2	0.07	<2	8	101	0.01	<10	<10	12	<10	73
323	D036	79137	56840	Cls	0.001	0.3	4.28	3	<10	10	<0.5	<2	4.33	1	7	6	23	3.49	20	<1	0.1	10	1.47	784	<1	0.58	8	700	7	<0.01	<2	11	132	0.22	<10	<10	52	<10	77
324	D037	78499	56711	Sss	<0.001	<0.2	3.93	<2	<10	10	0.6	<2	2.81	0.7	1	5	10	0.64	10	1	0.15	20	0.12	282	<1	0.01	2	180	6	<0.01	<2	2	168	0.01	<10	<10	5	<10	21
325	D039	78804	55744	Cls	<0.001	0.2	0.26	6	<10	30	<0.5	<2	>15.0	<0.5	2	4	14	0.94	<10	<1	0.08	10	0.16	1760	1	<0.01	15	220	27	0.01	<2	1	291	0.02	<10	10	12	<10	4
326	D040	78767	55737	Css	<0.001	0.3	1.35	<2	<10	<10	<0.5	<2	2.21	<0.5	3	8	1	1.47	20	<1	0.02	10	1.61	1440	<1	0.05	13	190	4	<0.01	<2	7	16	0.01	<10	<10	30	<10	68
327	D041	78793	55714	dci	<0.001	0.4	1.73	<2	<10	<10	<0.5	<2	0.89	<0.5	3	11	1	1.24	20	<1	0.01	<10	3.16	1315	<1	0.05	15	150	3	<0.01	<2	3	26	0.08	<10	<10	11	<10	47
328	D042	78797	55664	dci	<0.001	0.3	4.16	<2	<10	<10	<0.5	<2	3.45	<0.5	25	31	38	3.98	20	1	0.01	<10	2.65	853	<1	0.23	79	240	<2	<0.01	2	7	56	0.16	<10	<10	87	<10	46
329	D043	79822	56651	Cbs	<0.001	0.2	5.39	<2	<10	<10	<0.5	<2	3.56	0.8	20	19	69	4.02	20	<1	0.03	<10	2.05	430	<1	0.42	58	390	3	0.01	3	1	93	0.25	<10	10	145	<10	48
330	D044	79630	55609	Ctf	0.001	0.2	4.7	2	<10	<10	<0.5	<2	3.18	0.6	3	7	40	1.41	20	<1	0.01	<10	0.93	845	<1	0.01	7	180	5	<0.01	<2	4	109	0.03	<10	<10	9	<10	67
331	D045	79616	55584	Cls	<0.001	0.3	0.86	8	<10	10	<0.5	3	>15.0	<0.5	4	6	22	0.97	10	<1	0.04	<10	0.16	4610	<1	0.01	23	270	36	0.01	<2	2	279	0.04	<10	10	21	<10	11
332	D047	80867	56801	Dr	<0.001	0.2	4.28	2	<10	20	<0.5	<2	2.47	<0.5	22	18	18	5.17	20	<1	0.03	<10	2.46	957	<1	0.16	30	380	3	<0.01	2	8	35	0.22	<10	10	207	<10	60
333	D048	80703	57169	Cbs	<0.001	0.5	3.51	2	<10	30	<0.5	<2	0.46	0.6	32	130	8	6.85	40	<1	0.08	<10	2.34	10000	<1	0.05	65	510	3	<0.01	3	21	27	0.18	<10	10	166	<10	83
334	D049	80635	57176	Stf	<0.001	<0.2	3.08	2	<10	10	<0.5	<2	1.73	<0.5	2	16	2	1.24	10	<1	0.09	10	0.31	233	<1	0.03	5	30	5	<0.01	2	3	63	0.01	<10	<10	7	<10	35
335	D050	80632	57226	Sms	0.002	0.3	0.52	33	<10	40	<0.5	<2	>15.0	0.8	4	6	27	1.03	10	<1	0.09	10	0.36	2710	<1	0.05	18	290	35	0.01	2	2	304	0.03	<10	10	5	<10	16
336	D051	80511	57115	Sss	0.001	<0.2	1.19	4	<10	10	<0.5	<2	3.15	<0.5	6	15	30	1.93	10	<1	0.1	10	0.84	678	<1	0.05	8	270	6	<0.01	<2	5	40	0.01	<10	<10	25	<10	58
337	D052	80506	56150	Stf	0.001	<0.2	5.51	<2	<10	10	<0.5	<2	3.57	<0.5	2	11	4	1.75	20	1	0.13	10	0.58	687	<1	0.03	7	30	4	<0.01	<2	3	111	<0.01	<10	<10	13	<10	73
338	D053	83792	57202	Dci	0.001	<0.2	0.57	<2	<10	10	<0.5	<2	0.95	<0.5	1	11	5	0.77	<10	<1	0.05	10	0.12	146	<1	0.04	1	90	4	<0.01	<2	2	10	0.01	<10	<10	4	<10	25
339	D054	83656	56795	Cbs	0.006	0.3	1.85	2	<10	60	<0.5	<2	0.27	<0.5	8	58	24	4.04	20	<1	0.51	<10	1.03	931	<1	0.09	3	530	48	0.04	<2	9	9	0.13	<10	<10	47	<10	82
340	D055	83570	56706	Dr	<0.001	0.2	3.8	<2	<10	<10	<0.5	<2	3.64	0.9	11	11	7	2.85	10	<1	0.08	<10	1.01	294	<1	0.15	18	580	4	<0.01	<2	3	70	0.09	<10	<10	127	<10	32
341	D056	83336	56596	Dr	0.002	0.3	6.02	<2	<10	<10	<0.5	<2	3.7	<0.5	22	55	41	2.91	20	1	0.04	<10	2.68	295	<1	0.36	104	510	<2	<0.01	<2	<1	156	0.06	<10	10	62	<10	32
342	D057	82835	55949	Cbs	0.005	<0.2	3.03	<2	10	<10	<0.5	<2	4.26	1.2	28	22	79	6.82	20	<1	0.02	<10	2.27	1310	<1	0.05	16	270	6	0.01	<2	27	29	0.09	<10	10	289	<10	78
343	D058	82805	55922	Cbs	0.001	0.2	1.04	2	<10	10	<0.5	<2	>15.0	0.9	8	10	27	3.02	10	<1	0.08	10	0.7	1455	<1	0.02	26	290	17	0.01	<2	4	184	0.08	<10	10	25	<10	34
344	D059	82765	55875	Ls	0.002	<0.2	0.43	14	<10	30	<0.5	<2	>15.0	<0.5	5	25	19	1.52	10	<1	0.11	10	0.35	3810	<1	0.01	38	300	46	0.01	<2	3	336	0.02	<10	10	14	<10	28
345	D061	85736	57063	Dci	0.002	0.2	1.99	<2	<10	50	<0.5	<2	1.42	<0.5	16	6	46	5.07	20	<1	0.1	<10	1.64	1085	<1	0.05	2	840	2	<0.01	3	6	13	0.12	<10	10	88	<10	64
346	D061K			Dci	0.001	0.3	2.2	<2	<10	50	<0.5	<2	0.97	<0.5	14	6	23	4.68	20	<1	0.13	<10	1.46	1130	<1	0.06	3	720	<2	<0.01	<2	6	16	0.12	<10	<10	78	<10	67
347	D062	85570	57104	Cbs	0.002	<0.2	5.92	<2	10	30	<0.5	<2	3.64	0.9	20	18	54	5.54	20	1	0.06	<10	1.54	740	<1	0.14	10	610	8	<0.01	4	3	179	0.16	<10	10	188	<10	53
348	D062K			Cbs	0.001	<0.2	5.85	<2	10	30	<0.5	<2	3.21	1	20	18	62	5.62	20	<1	0.05	<10	1.54	781	<1	0.1	11	610	4	<0.01	5	4	162	0.17	<10	10	185	<10	57
349	D063	85222	57061	Cbs	<0.001	0.4	3.31	<2	<10	<10	<0.5	<2	2.9	0.7	18	9	32	6.75	20	1	0.02	<10	1.23	1270	<1	0.03	4	810	<2	<0.01	3	21	21	0.21	<10	10	134	<10	104
350	D064	85480	58420	Cbs	0.002	0.2	2.66	<2	<10	<10	<0.5	<2	0.54	<0.5	35	10	245	7.68	20	<1	0.01	<10	3.16	1460	<1	0.04	12	200	3	<0.01	<2	14	10	0.22	<10	10	211	10	103

Appendix 7 Results of Chemical Analysis for Rock Samples (8)

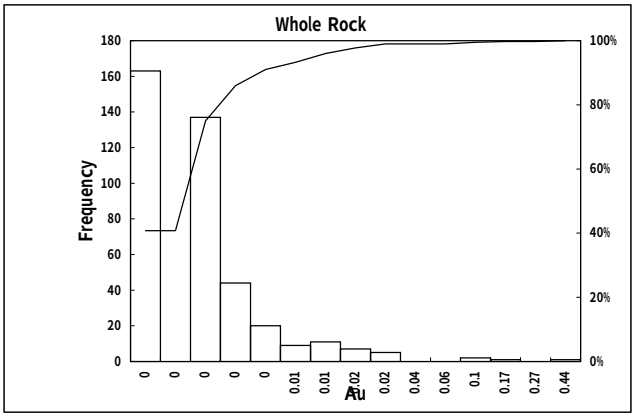
No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
351	D065	85472	58455	Stf	0.001	0.2	1.36	<2	<10	20	<0.5	<2	0.61	<0.5	16	7	31	5.49	10	<1	0.28	<10	0.52	327	<1	0.01	7	50	4	<0.01	2	12	15	0.14	<10	<10	52	<10	56
352	D066	85524	58440	Ls	0.007	0.3	0.66	81	<10	20	0.6	<2	>15.0	0.6	2	6	25	1.31	10	<1	0.12	10	0.28	2350	<1	0.02	12	270	16	0.01	<2	2	267	0.05	<10	10	13	<10	9
353	D067	85519	58461	Stf	0.001	0.6	1.42	<2	<10	20	0.6	<2	0.41	<0.5	1	6	2	0.55	10	<1	0.2	<10	1.55	579	<1	0.01	4	40	5	<0.01	<2	2	10	0.03	<10	<10	3	<10	70
354	D068	84864	58572	Sss	0.001	0.3	2.09	<2	<10	<10	<0.5	<2	1.3	<0.5	4	14	2	3.57	20	<1	0.02	<10	0.76	1165	<1	0.03	1	730	<2	<0.01	4	9	31	0.31	<10	<10	14	<10	97
355	D069	84809	58534	Cbs	<0.001	0.3	2.09	<2	<10	<10	<0.5	<2	0.8	<0.5	4	11	3	4.5	20	<1	0.03	<10	0.93	1290	<1	0.05	1	810	2	<0.01	3	11	21	0.29	<10	<10	16	<10	110
356	D070	84601	58321	Stf	0.001	0.4	4.15	<2	<10	10	<0.5	<2	1.83	<0.5	5	9	4	4.93	20	<1	0.03	<10	1.14	1630	<1	0.03	2	910	3	<0.01	4	16	48	0.34	<10	<10	23	<10	106
357	D072	84404	58205	Sms	0.003	0.4	3.24	<2	<10	10	<0.5	<2	1.45	<0.5	13	4	4	6.86	20	<1	0.01	<10	1.48	1585	<1	0.05	3	620	3	<0.01	7	27	9	0.44	<10	10	99	<10	108
358	D074	84109	58338	Dci	0.002	<0.2	2.76	<2	<10	<10	<0.5	<2	2.3	0.5	14	6	17	4.71	20	1	0.07	<10	0.89	481	<1	0.05	9	910	2	<0.01	<2	6	40	0.13	<10	10	274	<10	64
359	D077	84179	58720	Dci	0.001	<0.2	0.8	2	<10	40	<0.5	<2	0.21	<0.5	3	14	2	1.57	10	<1	0.15	10	0.19	552	<1	0.05	2	50	5	<0.01	<2	3	4	0.02	<10	<10	9	<10	51
360	D078	84332	58962	Stf	0.004	<0.2	1.17	2	<10	140	<0.5	<2	0.04	<0.5	3	9	14	2.11	10	<1	0.01	10	0.36	506	<1	0.05	2	220	14	<0.01	<2	4	6	<0.01	<10	<10	24	<10	157
361	D079	83891	59169	Stf	0.001	0.2	2.91	<2	<10	<10	<0.5	<2	1.88	<0.5	4	12	16	1.63	10	<1	0.04	10	0.46	351	<1	0.03	3	210	4	<0.01	3	6	57	0.12	<10	<10	25	<10	43
362	D080	82587	58823	Stf	0.001	0.3	5.38	14	<10	20	0.8	<2	3.35	0.7	3	3	8	3.26	30	1	0.08	10	0.68	531	<1	0.06	1	380	9	<0.01	<2	6	204	0.02	<10	<10	10	<10	93
363	D081	81662	58923	Stf	0.003	0.2	2.09	7	<10	20	<0.5	<2	1.93	<0.5	13	14	27	3.93	20	1	0.06	10	1.6	590	<1	0.05	8	410	7	0.5	<2	11	24	0.06	<10	<10	70	<10	88
364	D082	83226	58100	Dr	0.001	0.3	4.18	<2	<10	50	<0.5	<2	2.15	0.6	17	17	127	5.29	20	<1	0.02	<10	1.3	1080	<1	0.29	9	710	<2	0.01	4	5	86	0.3	<10	10	183	<10	62
365	D083	83248	58165	Sms	0.001	<0.2	0.8	<2	<10	50	<0.5	<2	1.65	<0.5	2	4	2	0.92	10	<1	0.17	10	0.24	567	<1	0.01	2	160	6	<0.01	<2	1	29	<0.01	<10	<10	3	<10	32
366	D084	82107	58063	Stf	<0.001	<0.2	3.64	<2	<10	30	<0.5	<2	2.38	0.5	2	7	10	1.63	10	<1	0.11	20	0.21	599	<1	0.03	1	250	7	<0.01	<2	4	90	<0.01	<10	<10	4	<10	52
367	D085	82081	58038	Sls	0.001	0.2	0.23	2	<10	30	<0.5	<2	>15.0	0.7	2	3	15	0.62	<10	1	0.05	10	0.12	1430	<1	0.01	6	170	11	0.01	<2	1	373	0.02	<10	10	7	<10	4
368	D087	80519	57969	Stf	0.001	<0.2	2.77	<2	<10	150	<0.5	<2	1.19	<0.5	2	2	8	0.92	10	<1	0.13	20	0.14	214	<1	0.01	1	30	6	<0.01	<2	2	77	<0.01	<10	<10	3	<10	36
369	D088	79518	57865	Sms	0.002	0.4	1.15	4	<10	80	<0.5	<2	0.3	<0.5	8	6	23	1.64	10	<1	0.13	30	0.34	2140	<1	0.01	9	170	19	<0.01	<2	4	53	0.03	<10	<10	41	<10	43
370	D089	81403	58013	Dr	0.001	<0.2	3.51	<2	<10	10	<0.5	<2	1.87	0.5	15	7	8	4.35	20	1	0.08	<10	1.17	421	<1	0.04	22	930	3	<0.01	<2	4	44	0.09	<10	10	199	<10	40
371	D090	78751	57949	Stf	0.002	<0.2	3.95	4	<10	60	<0.5	<2	2.45	<0.5	8	5	23	2.68	20	<1	0.16	10	0.58	606	<1	0.02	2	370	6	<0.01	<2	8	77	0.12	<10	<10	74	<10	47
372	D091	78874	57010	Sms	0.001	<0.2	1.01	4	<10	30	<0.5	<2	0.61	<0.5	8	5	18	2.51	10	<1	0.15	10	0.17	4290	<1	0.01	4	130	28	0.01	<2	7	12	0.05	<10	<10	37	<10	20
373	D092	78874	56962	Stf	0.003	0.3	2.32	2	<10	80	1.5	<2	0.02	<0.5	15	6	38	3.79	10	<1	0.21	40	0.75	2040	<1	<0.01	16	530	15	<0.01	<2	8	1	<0.01	<10	<10	33	<10	133
374	D094	77751	57297	Stf	0.001	<0.2	1.14	<2	<10	20	<0.5	<2	1.11	<0.5	6	20	16	2.2	10	<1	0.06	10	0.68	461	<1	0.05	4	260	4	<0.01	<2	5	21	0.01	<10	<10	24	<10	48
375	D095	77617	57254	Dci	<0.001	0.2	3.9	<2	<10	<10	<0.5	<2	2.56	0.6	20	21	6	6	20	<1	0.04	<10	1.47	989	<1	0.04	12	660	2	<0.01	4	9	64	0.28	<10	10	232	<10	76
376	D096	75508	51555	Ad	0.001	0.2	3.97	2	10	20	<0.5	<2	3.18	0.9	32	83	47	5.82	20	<1	0.02	<10	3.42	894	<1	0.03	28	160	4	0.01	4	35	14	0.17	<10	10	197	<10	65
377	D096K			Ad	0.001	<0.2	3.85	<2	10	20	<0.5	<2	2.66	1.3	33	73	36	6.17	20	1	0.02	<10	3.63	1095	<1	0.03	27	150	4	<0.01	<2	32	12	0.16	<10	10	185	<10	65
378	D098	74963	51459	Cls	0.001	<0.2	0.33	<2	<10	10	<0.5	<2	>15.0	<0.5	2	3	48	0.53	10	1	0.03	<10	0.24	1830	<1	0.01	6	130	18	0.01	<2	1	340	0.01	<10	10	10	<10	3
379	D099	74945	51430	Css	0.001	0.5	1.48	6	<10	10	0.6	<2	14.68	<0.5	10	22	10	1.14	10	<1	0.17	20	0.93	1835	<1	0.01	36	190	9	0.01	<2	7	101	0.01	<10	<10	12	<10	102
380	D101	75161	51302	Adcl	0.003	0.2	2.77	2	10	20	<0.5	<2	4.86	<0.5	16	14	50	4.13	20	<1	0.02	<10	1.48	914	<1	0.06	11	160	13	<0.01	<2	9	14	0.2	<10	10	179	<10	49
381	D102	75464	51063	Cls	0.003	<0.2	0.3	8	<10	30	<0.5	<2	>15.0	<0.5	1	4	13	1.14	10	<1	0.09	10	0.12	4320	<1	0.01	10	210	37	0.01	<2	2	524	0.02	<10	10	9	<10	5
382	D103	75479	51042	Ctf	0.001	<0.2	0.5	<2	<10	30	0.5	<2	4.36	<0.5	3	1	3	1.58	<10	<1	0.13	10	0.06	884	<1	0.02	5	200	9	<0.01	<2	5	36	<0.01	<10	<10	8	<10	50
383	D104	75669	50729	Ad	<0.001	0.3	1.78	<2	<10	20	<0.5	<2	4.13	0.7	8	5	4	4.12	20	<1	0.11	<10	1.02	1035	<1	0.03	2	860	3	<0.01	3	7	48	0.26	<10	10	31	<10	85
384	D105	75968	51456	Dci	0.004	<0.2	0.29	6	<10	20	<0.5	<2	0.29	<0.5	1	18	1	1.53	<10	<1	0.05	10	0.05	181	<1	0.09	2	110	3	0.09	<2	3	4	0.03	<10	<10	5	<10	14
385	D106	75956	51505	Atf	0.001	<0.2	0.27	<2	<10	40	<0.5	<2	0.23	<0.5	1	60	2	0.92	<10	<1	0.13	10	0.03	284	<1	0.03	3	100	2	<0.01	<2	3	6	<0.01	<10	<10	2	<10	25
386	D108	76054	56958	Cbs	0.002	0.2	2.82	<2	<10	10	<0.5	<2	1.9	<0.5	17	22	105	5.04	20	<1	0.07	<10	1.15	640	<1	0.17	9	770	<2	<0.01	<2	5	60	0.27	<10	10	287	<10	58
387	D109	76278	57008	Stf	0.003	0.2	1.94	3	<10	10	<0.5	<2	7.62	<0.5	10	6	44	3.16	20	<1	0.12	10	1.33	970	<1	0.06	9	630	8	0.11	2	8	119	0.17	<10	10	63	<10	63
388	D110	76260	56967	Stf	0.002	0.2	1.76	<2	<10	20	<0.5	<2	1.38	<0.5	9	6	20	3.55	20	<1	0.1	10	1.41	562	<1	0.07	3	570	4	<0.01	<2	9	34	0.16	<10	<10	67	<10	60
389	D111	76295	56964	Sls	0.001	0.2	1.06	2	<10	20	<0.5	<2	>15.0	0.9	8	9	43	2	10	<1	0.21	10	0.7	1475	<1	0.03	19	280	33	0.01	<2	5	388	0.14	<10	10	42	<10	46
390	D112	76272	56936	Cbs	0.001	0.3	2.46	<2	<10	20	<0.5	<2	1.99	0.7	22	20	59	5.01	20	<1	0.1	<10	3.09	1375	<1	0.12	36	440	2	<0.01	2	4	40	0.28	<10	10	186	<10	60
391	D113	76187	56646	Sls	0.001	0.2	0.35	4	<10	10	<0.5	<2	>15.0	0.6	3	3	13	0.87	10	<1	0.07	10	0.21	1735	<1	0.01	11	270	19	0.01	<2	2	371	0.03	<10	10	17	<10	11
392	D114	76213	56624	Cbs	0.001	0.2	2.98	4	<10	20	<0.5	<2	4.21	0.7	31	106	68	5.31	20	<1	0.03	<10	3.01	1025	<1	0.03	71	290	6	<0.01	<2	19	44	0.14	<10	10	160	<10	67
393	D115	76226	56562	Stf	0.001	0.2	4.43	2	<10	30	<0.5	<2	3.29	<0.5	4	15	27	1.59	20	<1	0.11	<10	0.45	808	<1	0.04	5	210	22	<0.01	<2	3	130	0.03	<10	<10	29	<10	57
394	D117	76328	55855	Sls	0.001	<0.2	0.18	27	<10	50	<0.5	2	>15.0	0.6	3	3	19	1	<10	<1	0.05	<10	0.2	1350	<1	0.01	14	200	30	0.01	<2	2	365	0.01	<10	10	8	<10	7
395	D119	75445	57724	Dci	<0.001	0.4	1.13	<2	<10	30	0.5	<2	0.64	<0.5	2	19	1	2.77	10	<1	0.04	10	0.48	935	<1	0.05	1	590	2	<0.01	<2	9	17	0.08	<10	<10	5	<10	79
396	D120	75730	57821	Stf	0.002	<0.2	1.48	<2	<10	80	0.5	<2	0.01	<0.5	5	3	7	2.05	<10	<1	0.17	10	0.12	649	<1	<0.01	2	200	4	<0.01	<2	5	1	<0.01	<10	<10	12	<10	42
397	D121	76404	57506	Stf	0.001	0.7	2.82	4	<10	600	<0.5	<2	0.12	<0.5	21	8	43	5.8	20	1	0.04	20	1.5	1090	<1	0.04	6	410	6	<0.01	<2	17	20	0.1	<10	<10	179	<10	75
398	D122	76939	58078	Stf	<0.001	<0.2	1.89	<2	<10	10	<0.5	<2	0.09	<0.5	3	54	4	2.28	<10	<1	0.08	<10	0.03	165	<1	0.01	5	160	3	0.01	<2	6	1	<0.01	<10	<10	32	<10	44
399	D124	75206	58213	Sms	0.002	<0.2	1.35	23	<10	30	<0.5	<2	0.11	<0.5	4	1	16	1.49	<10	<1	0.13	20	0.18	497	<1	0.01	2	150	14	<0.01	<2	3	9	<0.01	<10	<10	6	<10	35
400	D125	75737	58427	Stf	0.001	0.4	3.4	4	<10	70	<0.5	<2	2.31	<0.5	10	5	8	4.79	20	1	0.07	<10	1.28	1315	<1	0.02	3	790	3	<0.01	<2	17	67	0.05	<10	<10	33	<10	96

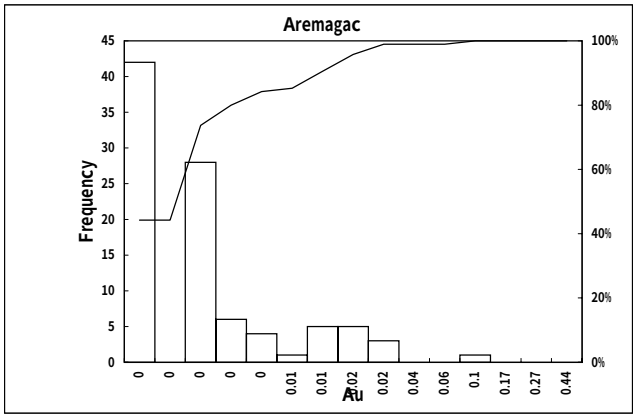
Appendix 7 Results of Chemical Analysis for Rock Samples (9)

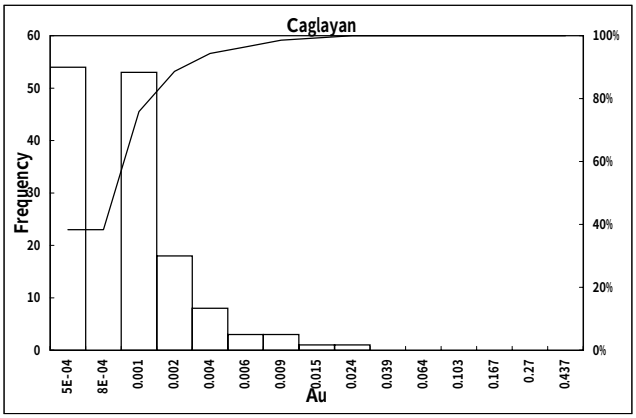
No.	Sample	Coodination		Rock	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		UTM-E	UTM-N	Type	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
401	D126	75597	58630	Sms	0.004	0.2	0.72	4	<10	110	<0.5	<2	4.69	<0.5	11	7	91	4.9	<10	1	0.26	10	0.1	613	<1	0.03	10	520	17	<0.01	<2	14	57	0.08	<10	10	121	<10	61
402	D127	75345	58686	Dci	0.001	0.4	2.83	<2	<10	70	<0.5	<2	1.48	<0.5	10	21	10	6.1	20	<1	0.03	<10	1.56	1255	<1	0.18	1	860	3	0.02	3	22	43	0.39	<10	10	63	<10	142
403	D128	73119	57819	Dol	0.002	0.2	2.73	<2	<10	<10	<0.5	<2	1.68	0.5	20	20	10	6.55	20	<1	0.04	<10	1.96	1080	<1	0.03	3	740	<2	0.01	4	16	10	0.39	<10	10	200	<10	69
404	D129	73558	58040	Stf	0.001	0.2	4.71	6	<10	60	<0.5	<2	3.01	<0.5	9	13	26	3.15	20	1	0.07	<10	1.32	614	<1	0.1	3	340	5	<0.01	4	9	104	0.15	<10	<10	70	<10	54
405	D130	73110	57132	Cms	0.001	<0.2	0.43	2	<10	60	<0.5	<2	0.13	<0.5	3	14	8	1.79	10	<1	0.1	10	0.04	5450	<1	<0.01	4	110	19	<0.01	<2	3	4	0.02	<10	<10	25	<10	13
406	D137	78224	54548	Cbs	0.002	0.4	2.65	5	<10	30	<0.5	<2	3.5	0.8	29	10	148	6.68	20	1	0.08	<10	1.91	919	<1	0.04	9	360	4	0.01	<2	22	27	0.01	<10	10	221	<10	81
407	D137K			Cbs	0.001	0.2	2.64	4	<10	40	<0.5	<2	3.2	0.9	26	11	53	6.06	20	<1	0.18	<10	1.74	830	1	0.04	9	340	5	0.01	<2	23	30	0.01	<10	10	221	<10	76
408	D140	76178	52983	Adcl	<0.001	<0.2	0.34	<2	<10	<10	<0.5	<2	0.21	<0.5	2	5	3	0.34	<10	<1	0.06	10	0.15	58	<1	0.06	4	30	<2	<0.01	<2	2	6	0.01	<10	<10	7	<10	39
409	D140K			Adcl	<0.001	<0.2	0.39	<2	<10	10	<0.5	<2	0.11	<0.5	1	10	1	0.42	<10	<1	0.09	10	0.06	65	<1	0.08	<1	50	<2	<0.01	<2	2	6	0.01	<10	<10	2	<10	55
410	D151	73662	57090	Dol	0.001	<0.2	5.25	<2	<10	10	0.5	<2	3.01	<0.5	23	14	68	4.76	20	<1	0.03	10	2.99	783	<1	0.25	61	670	<2	<0.01	<2	6	123	0.19	<10	30	180	<10	60
411	D152	74495	58567	Dci	0.001	<0.2	8.06	<2	<10	10	0.5	<2	3.14	0.5	17	17	7	5.22	20	<1	0.02	10	1.02	652	<1	0.3	6	460	<2	0.02	<2	18	112	0.2	<10	110	289	<10	52
412	D153	79774	56875	Stf	0.001	<0.2	0.63	<2	<10	10	<0.5	<2	0.42	<0.5	1	17	3	1.76	10	<1	0.04	10	0.19	419	<1	0.04	2	120	6	<0.01	<2	8	6	0.01	<10	<10	4	<10	62
413	D154	79840	57065	Cbs	0.001	<0.2	4.73	<2	<10	<10	<0.5	<2	2.38	<0.5	20	11	74	4.79	20	<1	0.02	10	2.15	582	1	0.3	34	500	<2	<0.01	<2	6	62	0.23	<10	40	152	<10	61
414	D155	77054	57512	Cms	0.001	<0.2	1.11	3	<10	20	<0.5	<2	9.02	<0.5	6	6	58	2.35	20	<1	0.15	10	0.84	1084	<1	0.04	13	420	10	<0.01	<2	6	86	0.04	<10	<10	41	<10	50
415	D156	77422	56667	Cbs	<0.001	<0.2	2.89	<2	10	<10	<0.5	<2	1.89	<0.5	22	9	59	4.21	20	<1	0.04	10	2.19	1000	<1	0.03	44	270	<2	<0.01	3	7	7	0.23	<10	50	165	<10	53
416	D158	76993	56559	Sls	<0.001	<0.2	0.78	8	<10	20	<0.5	<2	>15.0	<0.5	5	3	45	1.16	80	<1	0.04	20	0.34	5294	1	0.01	19	380	30	<0.5	<2	3	309	0.04	<10	<10	43	<10	34
417	D159	79826	57178	Cms	0.002	<0.2	1.3	<2	<10	20	<0.5	<2	6.23	<0.5	11	6	27	2.41	20	<1	0.06	10	1.09	1028	<1	0.02	10	320	17	<0.01	<2	7	76	0.02	<10	<10	45	<10	76
418	D160	79823	57226	Stf	0.002	<0.2	2.54	4	<10	<10	0.5	<2	2.03	<0.5	11	6	21	3.66	20	<1	0.05	20	0.99	753	<1	0.04	5	800	4	0.02	<2	9	57	0.03	<10	<10	50	<10	73
419	D162	80673	56281	Ad	<0.001	<0.2	3.2	<2	10	<10	<0.5	<2	3.36	0.6	26	123	56	4.44	20	<1	<0.01	10	3.03	672	<1	0.04	61	280	<2	<0.01	<2	12	5	0.23	<10	30	149	<10	51
420	D165	83200	56349	Ad	0.001	<0.2	6.05	<2	<10	<10	<0.5	<2	2.62	0.7	27	13	67	6.36	20	<1	0.04	10	2.44	755	1	0.29	10	220	<2	<0.01	<2	18	92	0.23	<10	70	211	<10	76

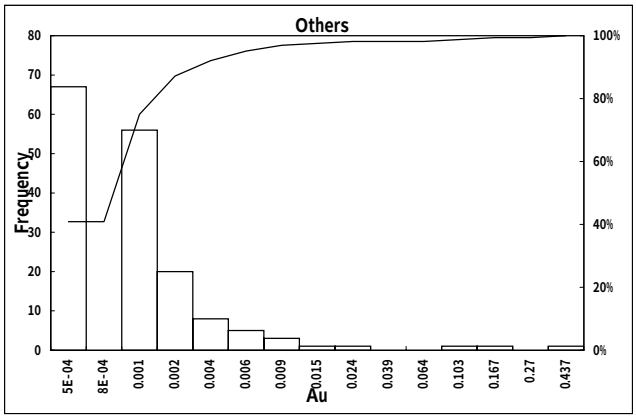
Appendix 8

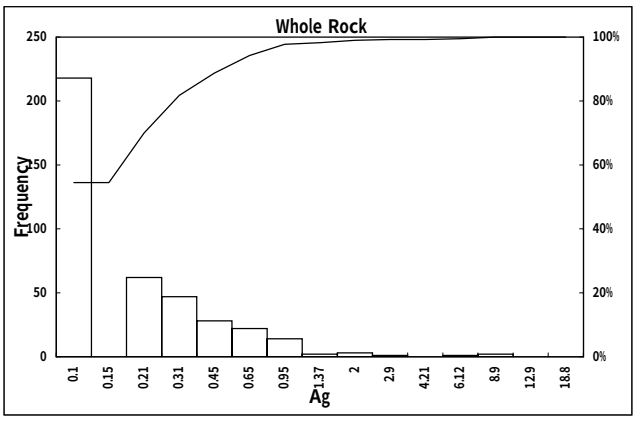
Cumulative Frequency Diagram and Histogram (Rock)

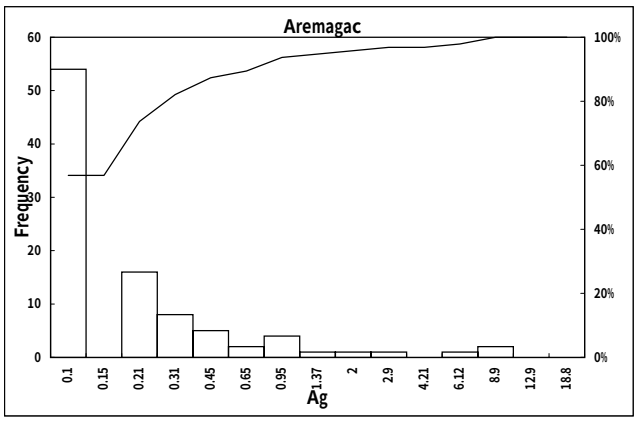


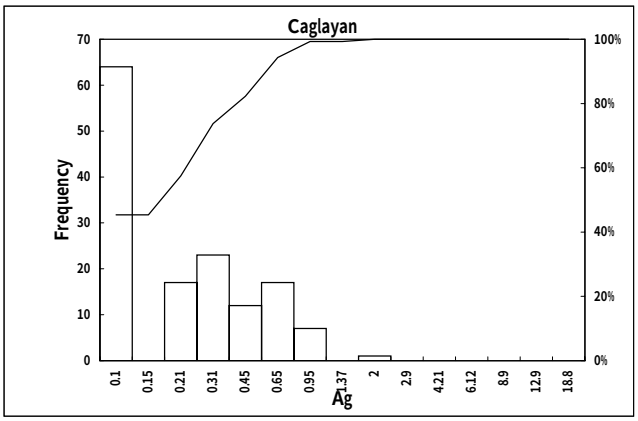


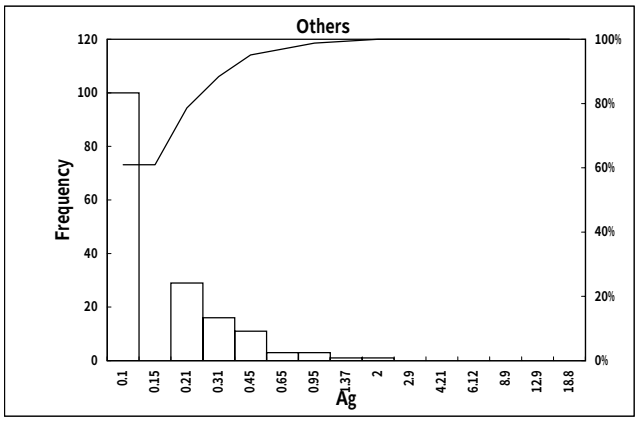




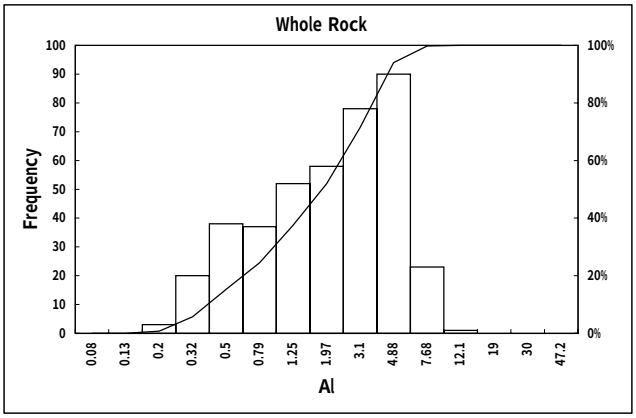


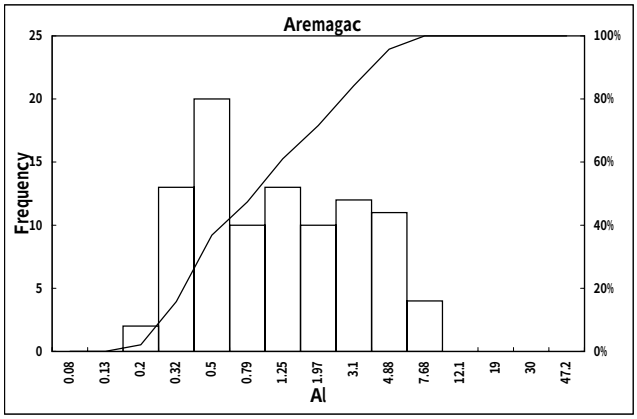


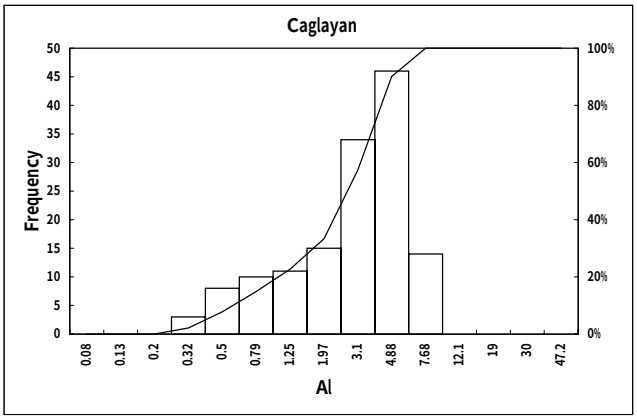


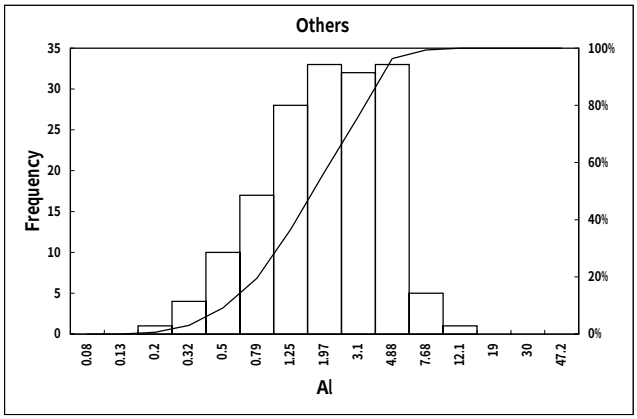


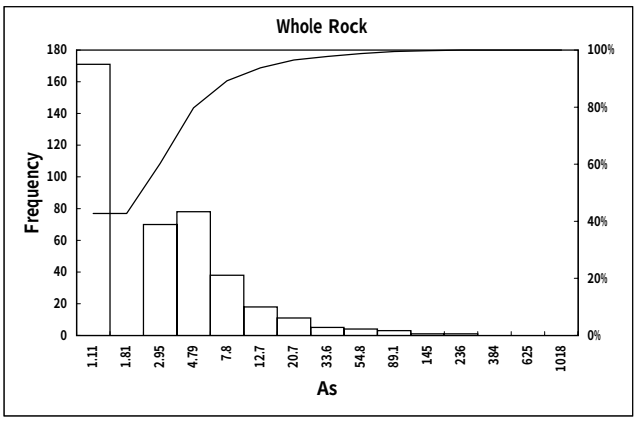
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (1)

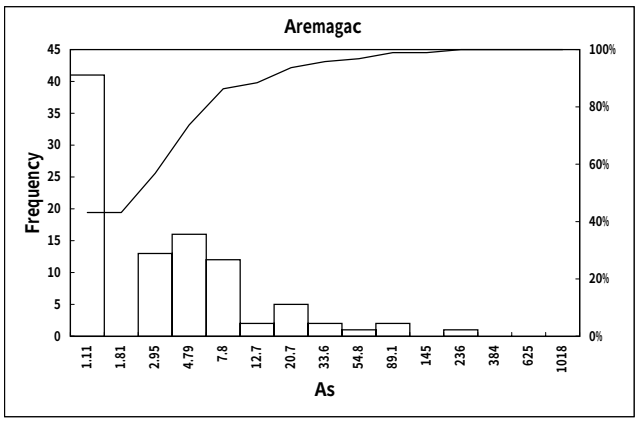


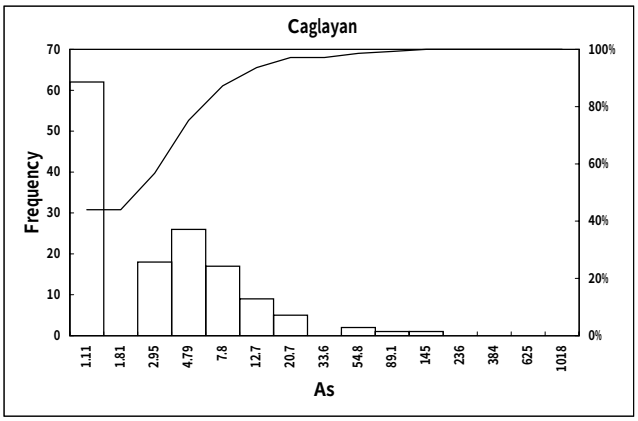


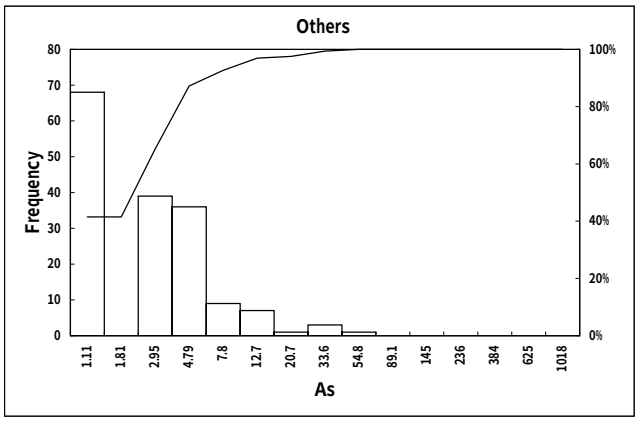




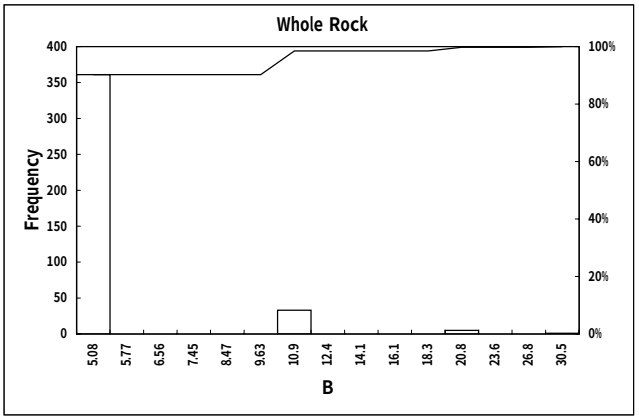


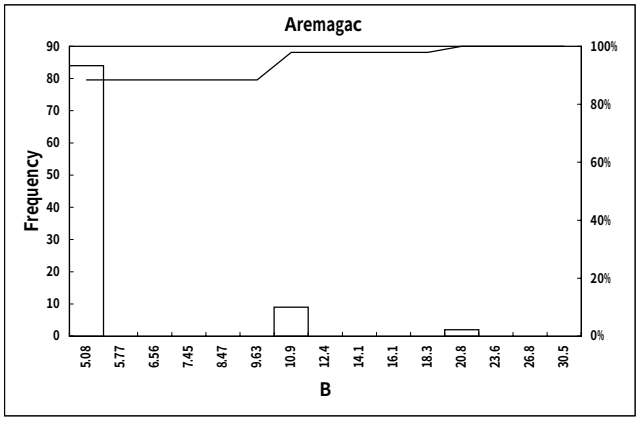


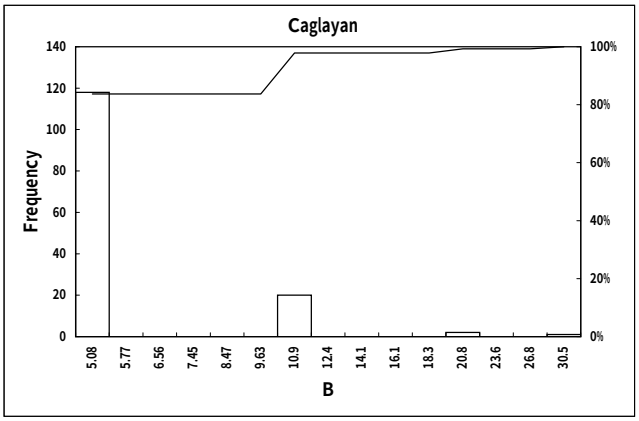


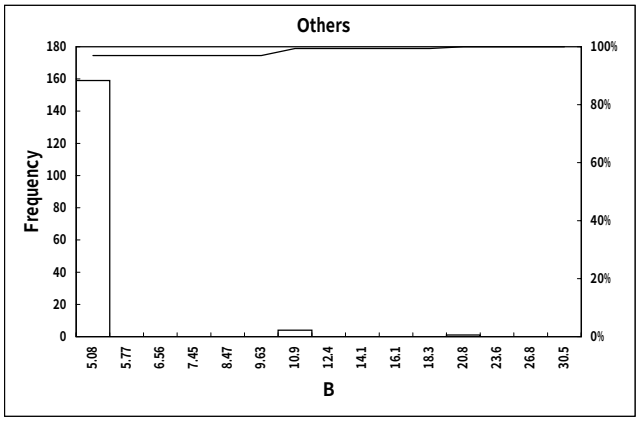


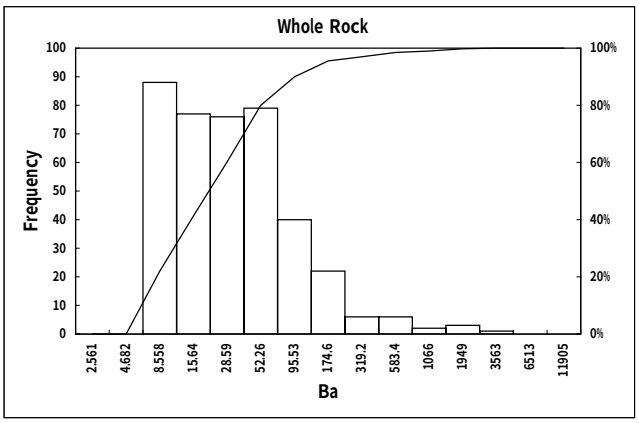
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (2)

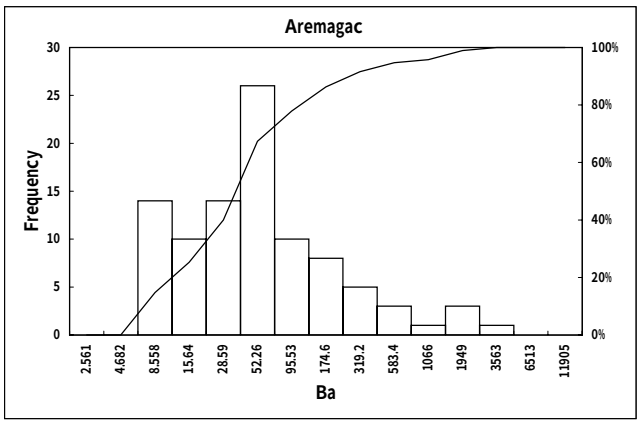


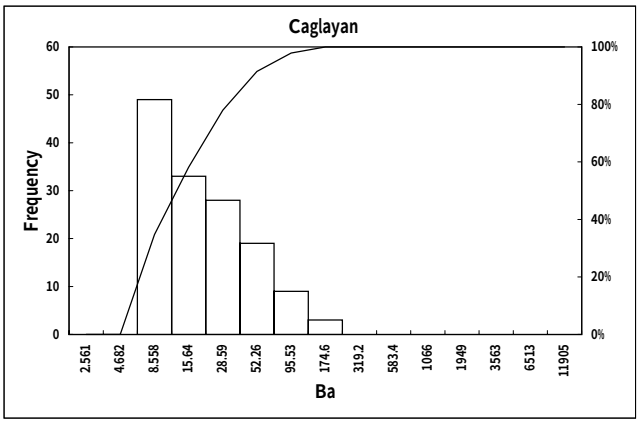


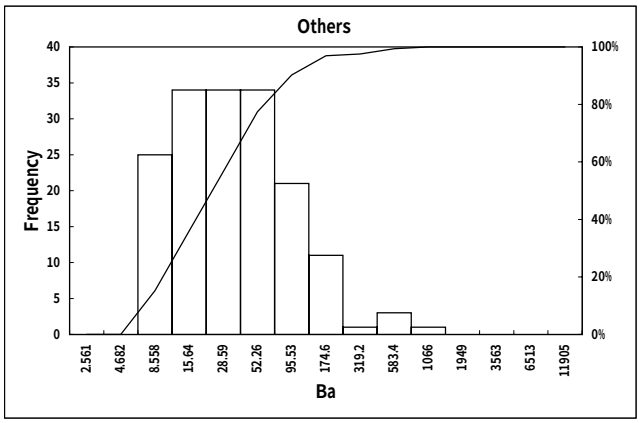




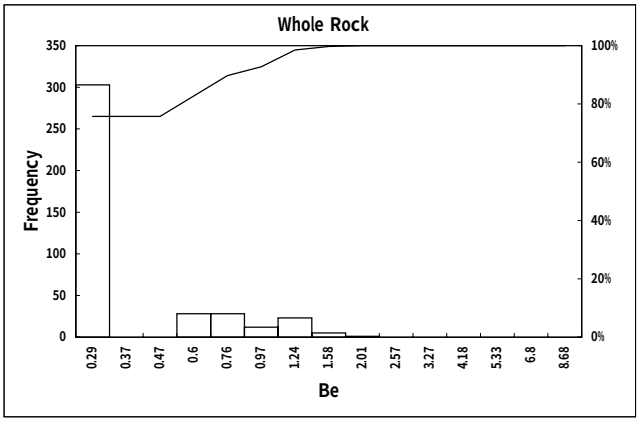


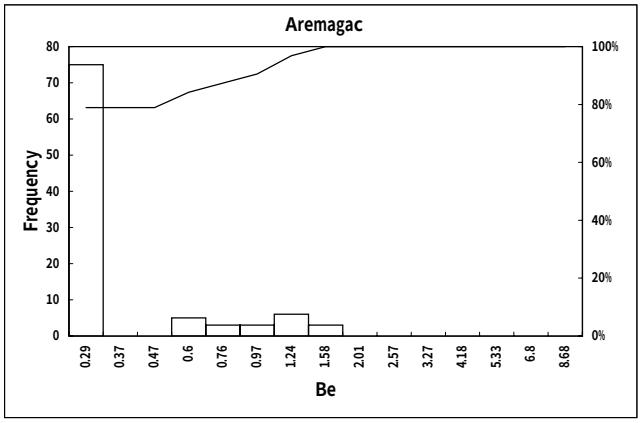


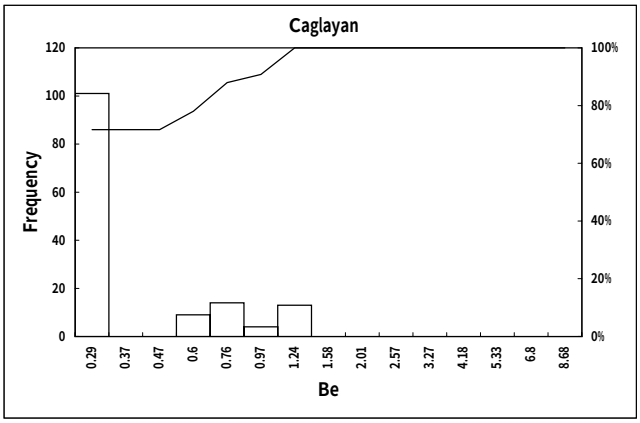


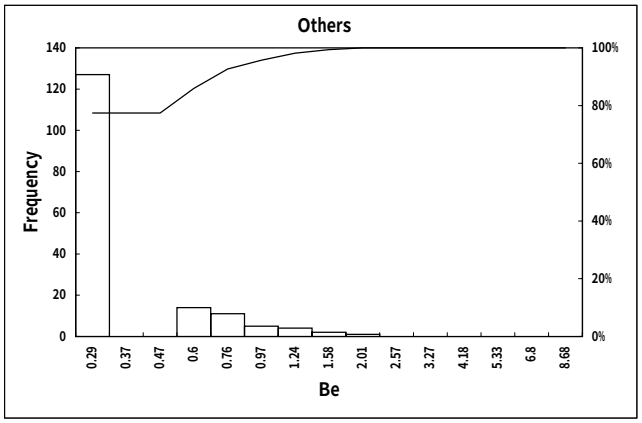


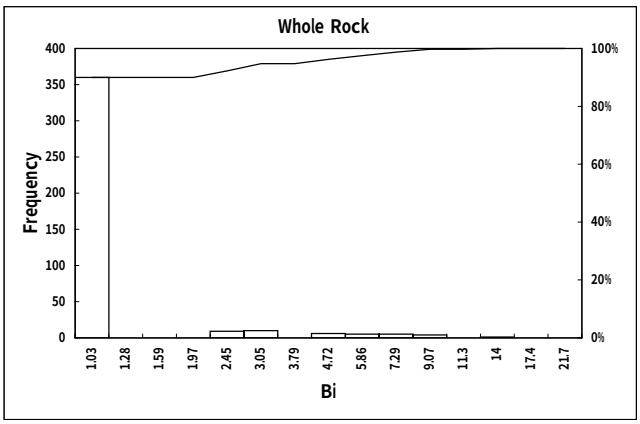
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (3)

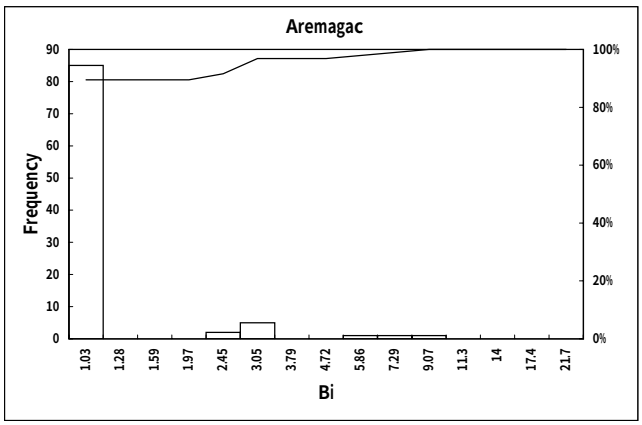


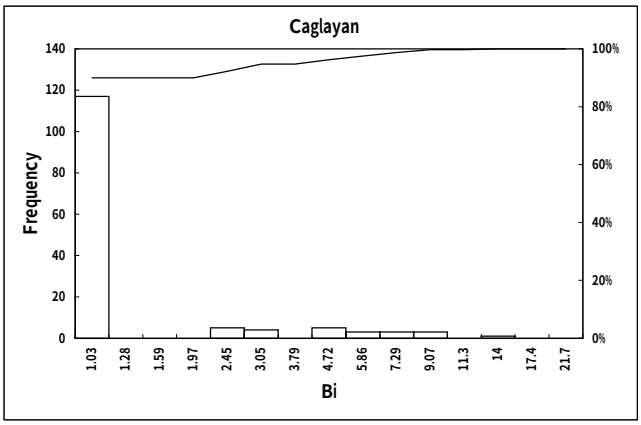


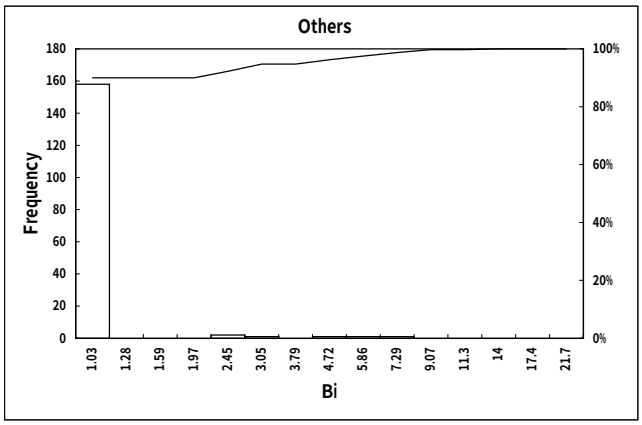




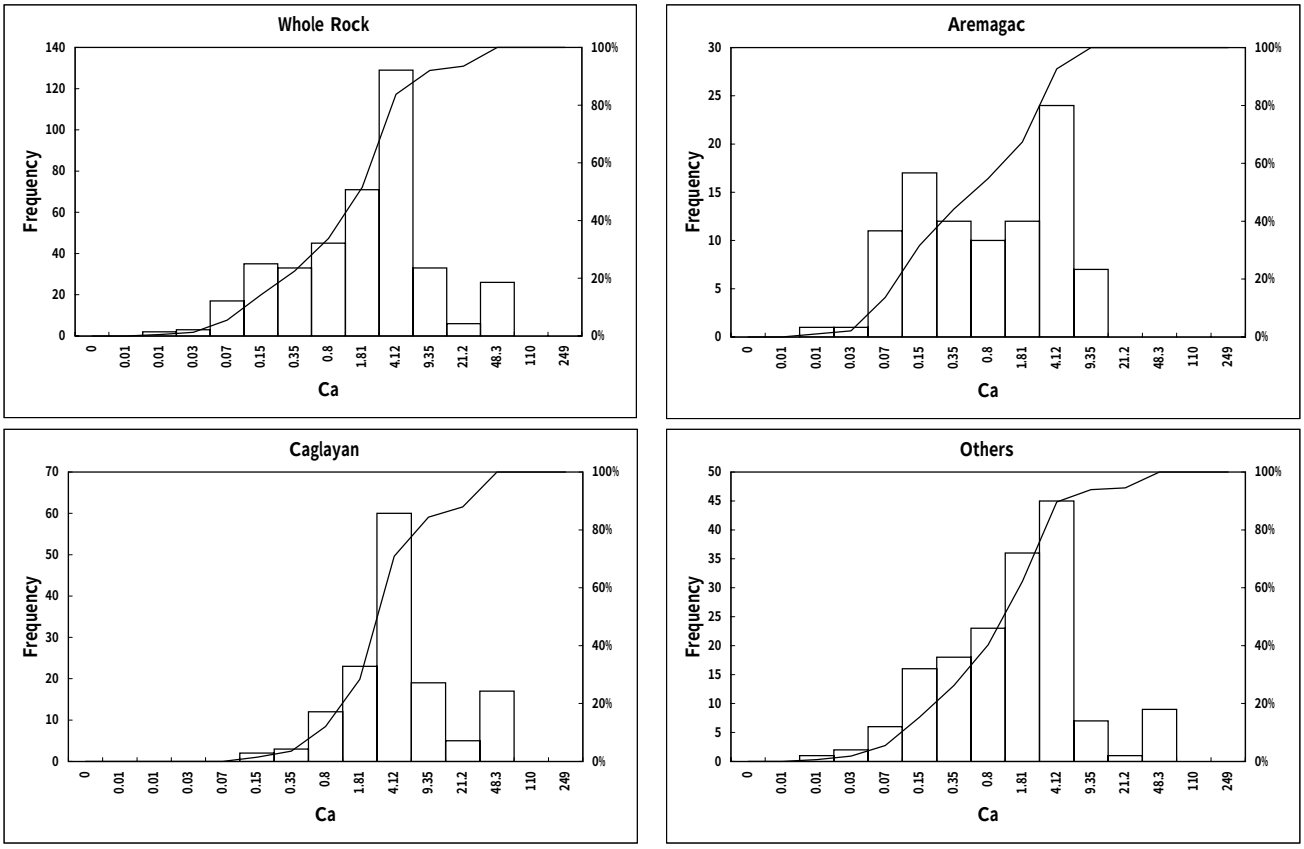


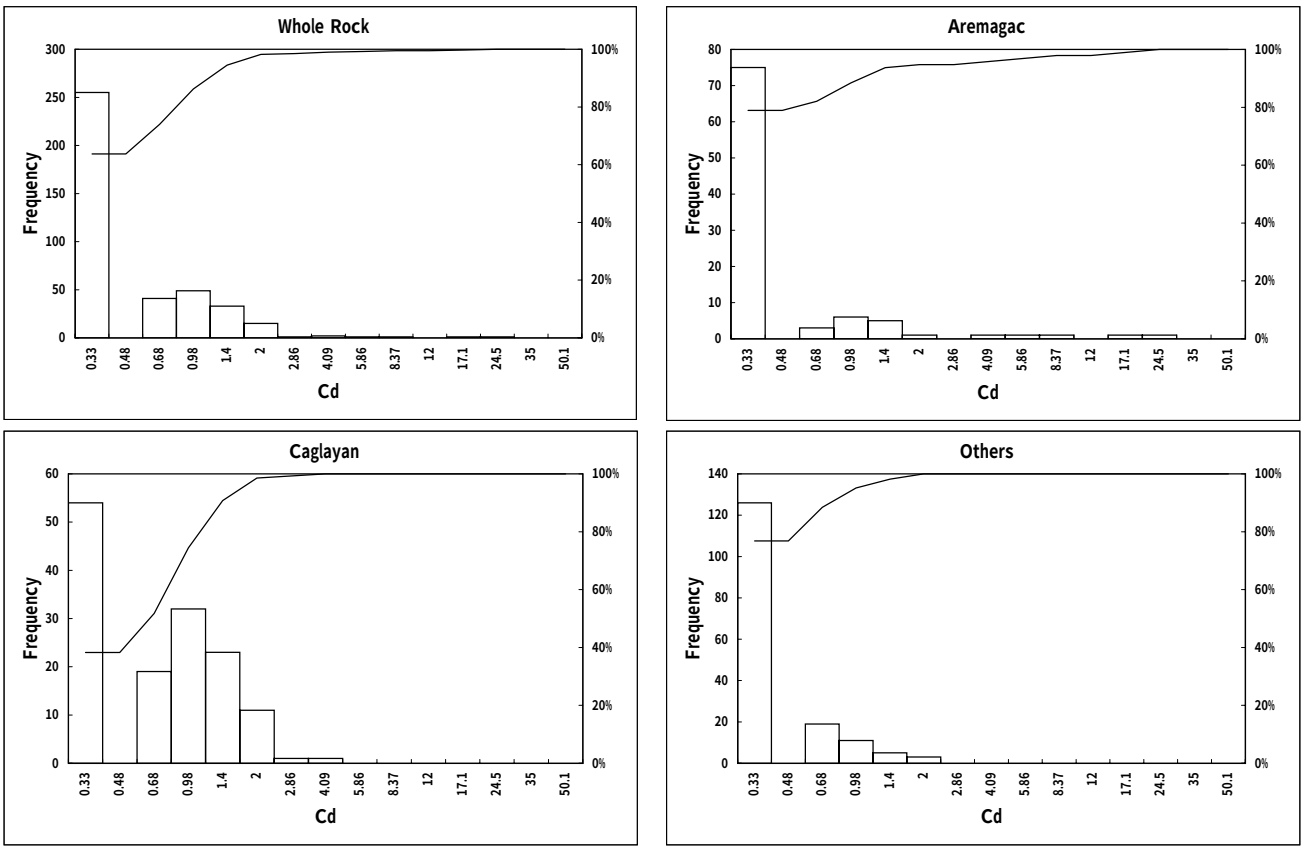




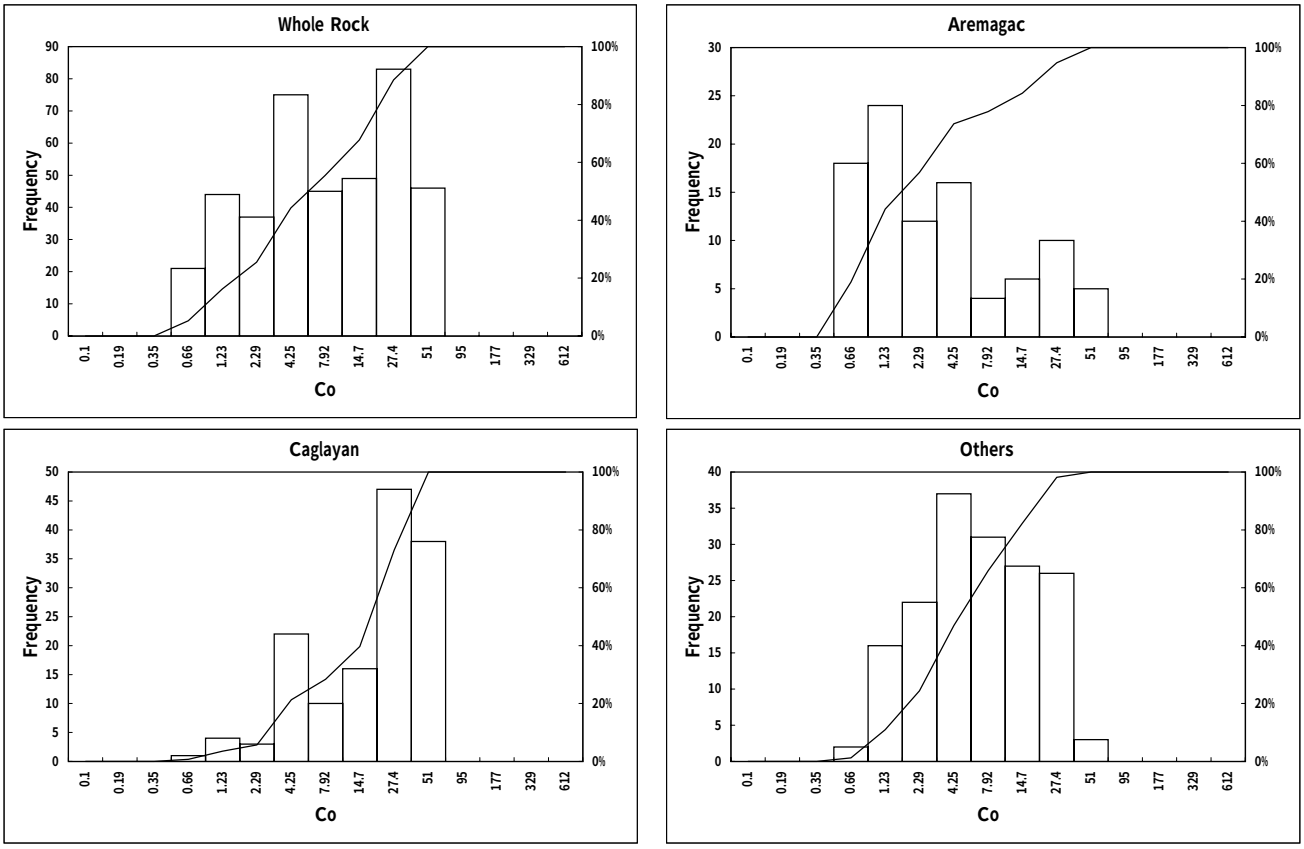


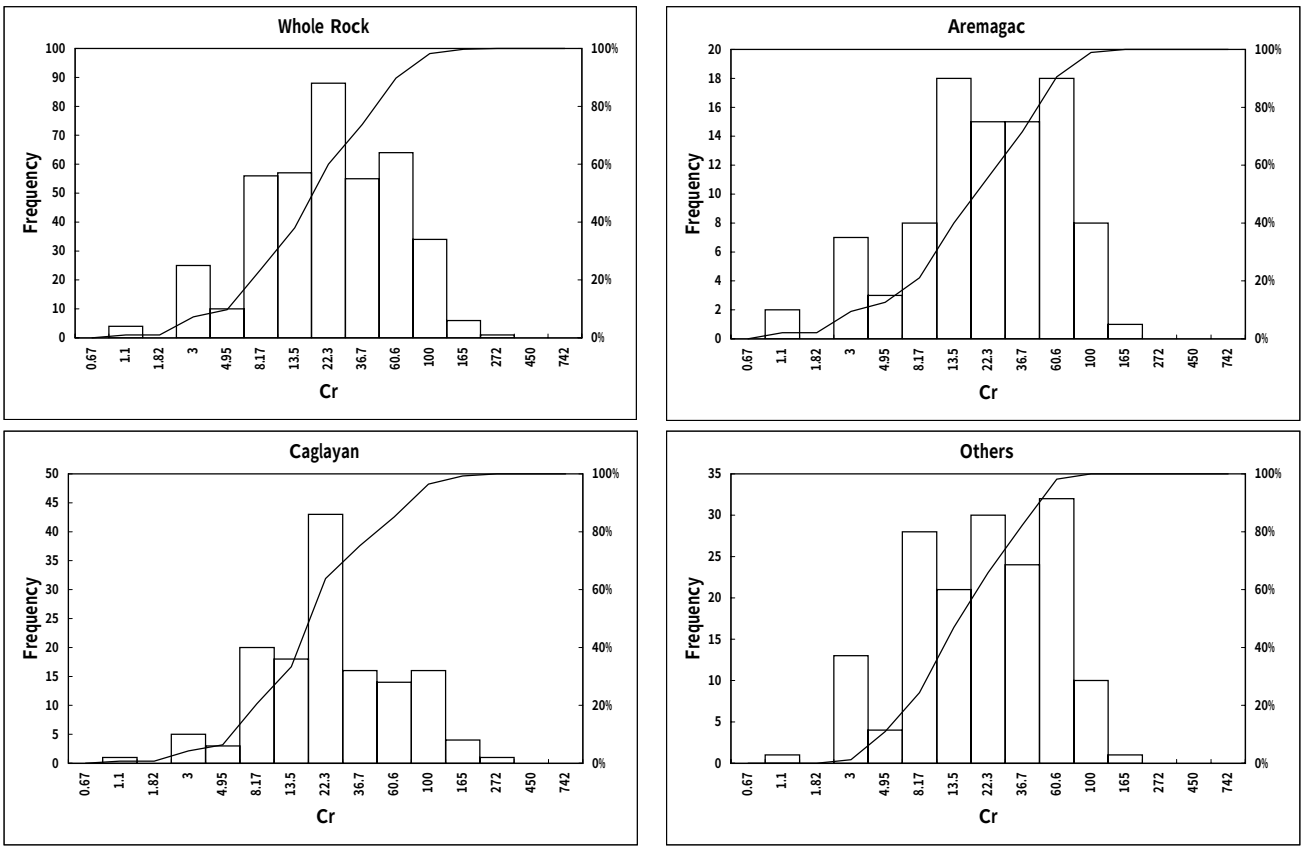
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (4)



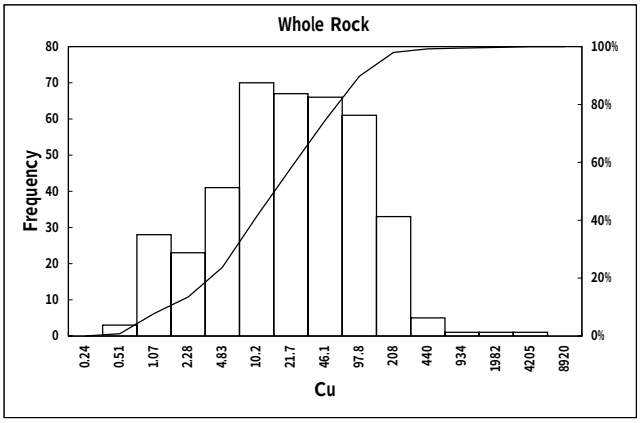


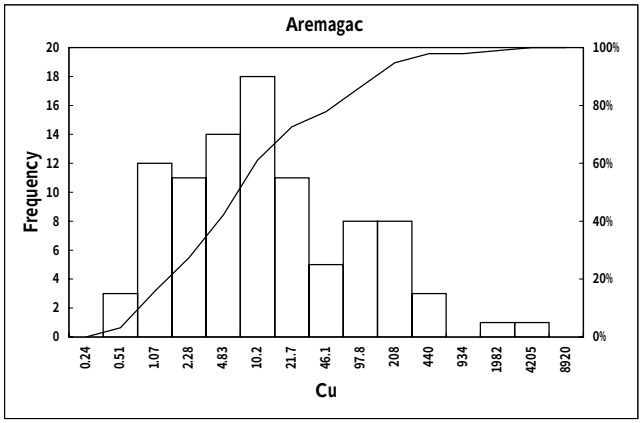
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (5)

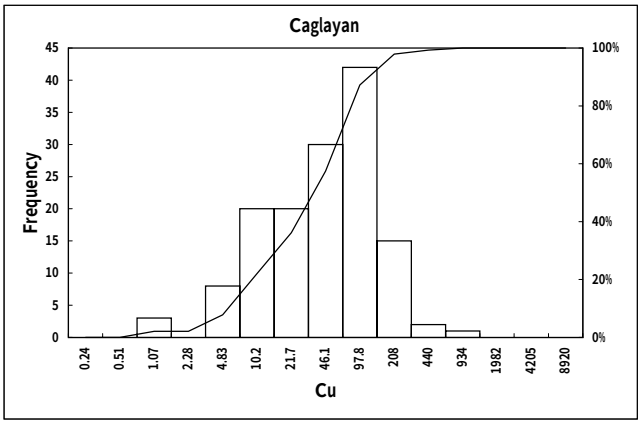


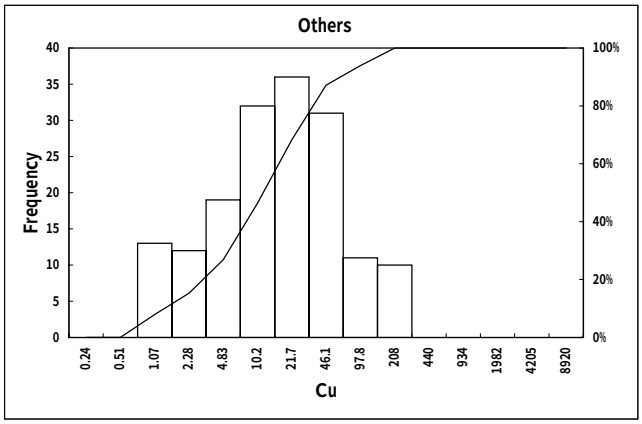


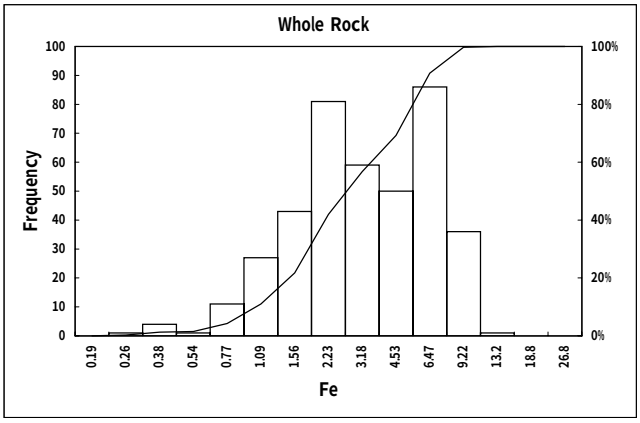
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (6)

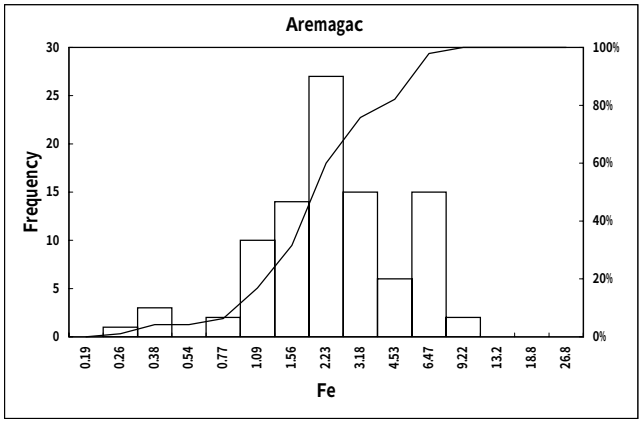


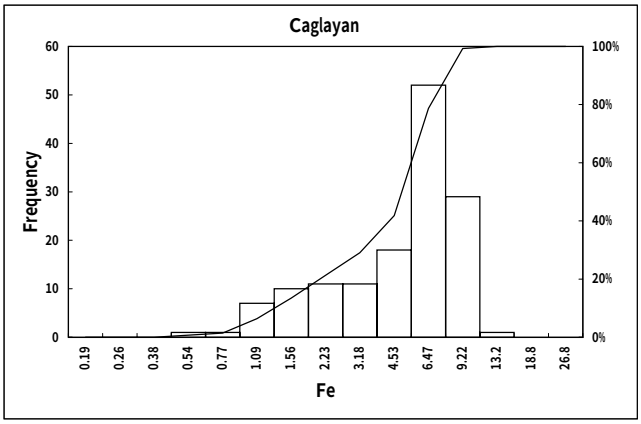


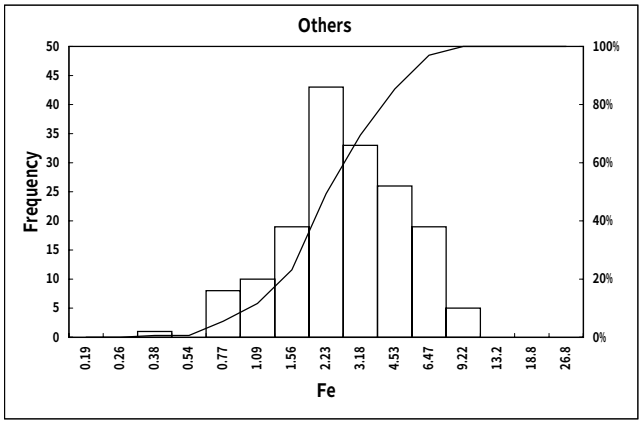




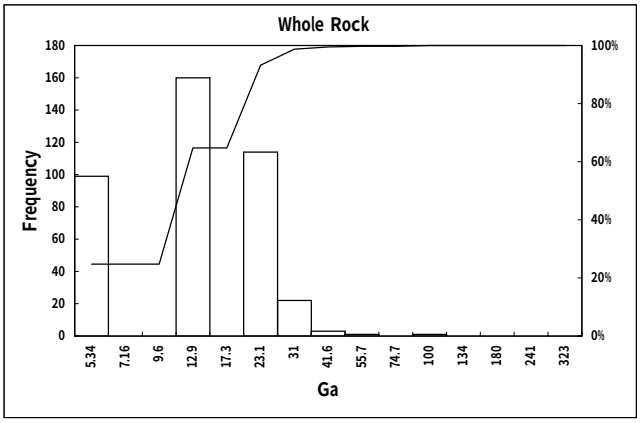


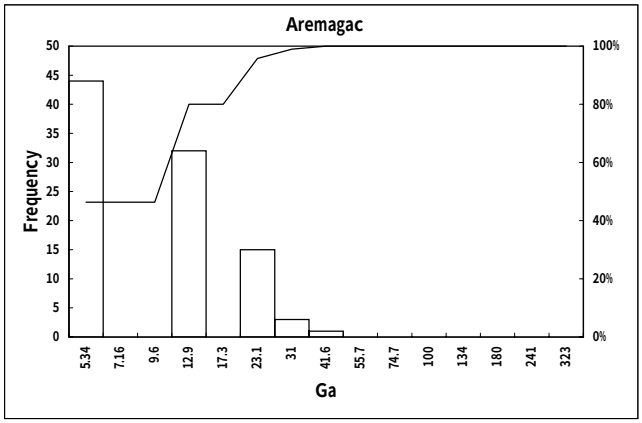


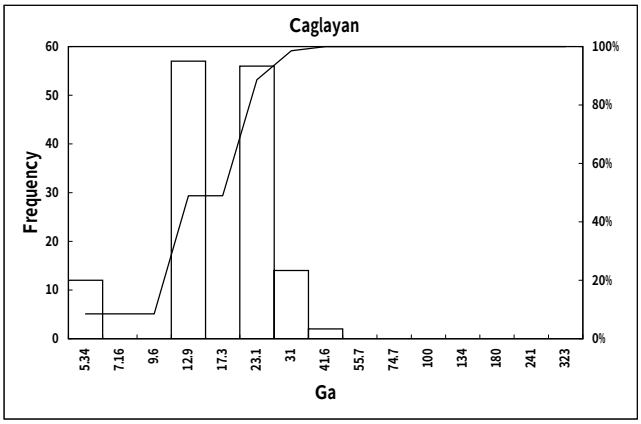


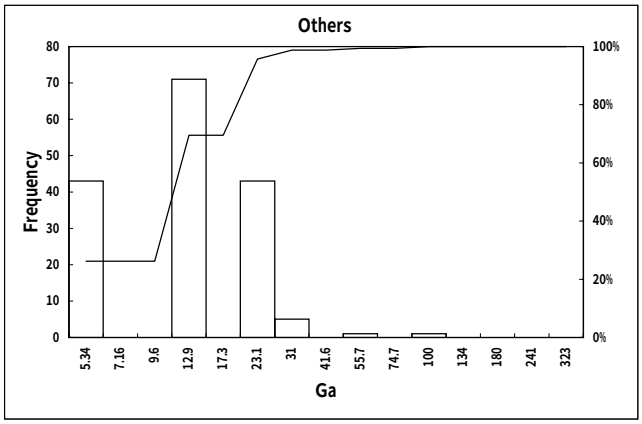


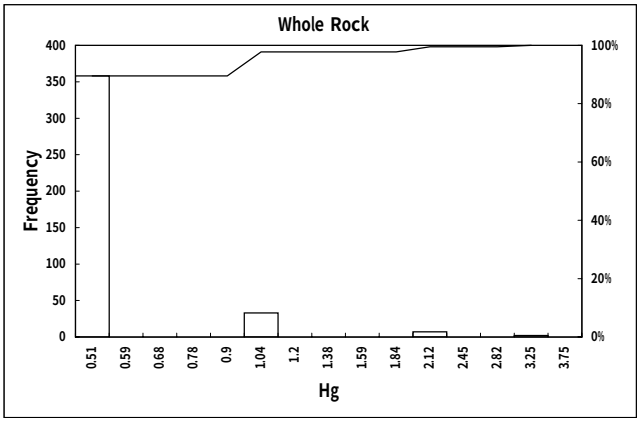
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (7)

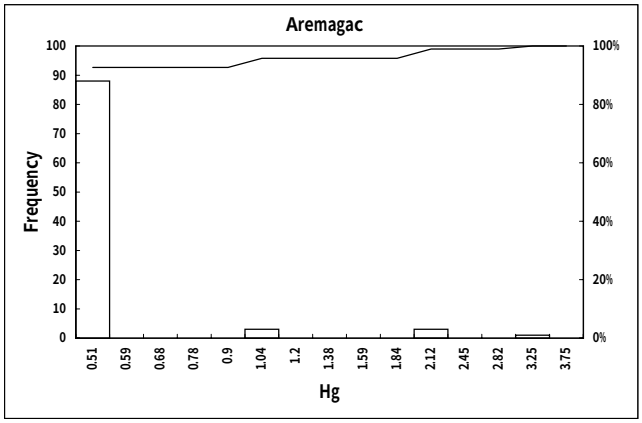


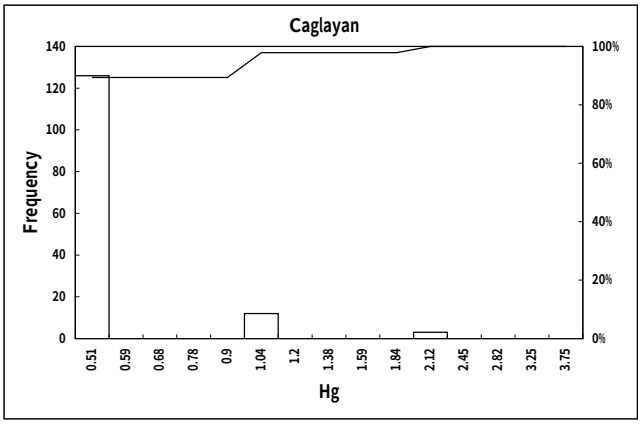


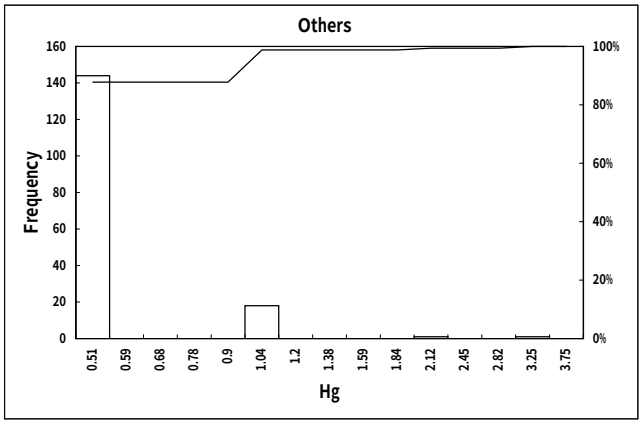




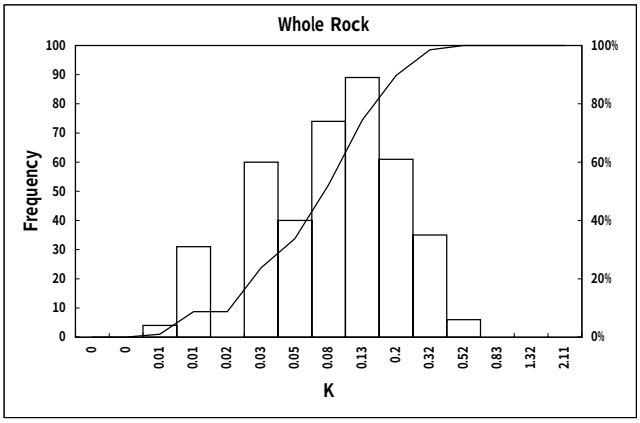


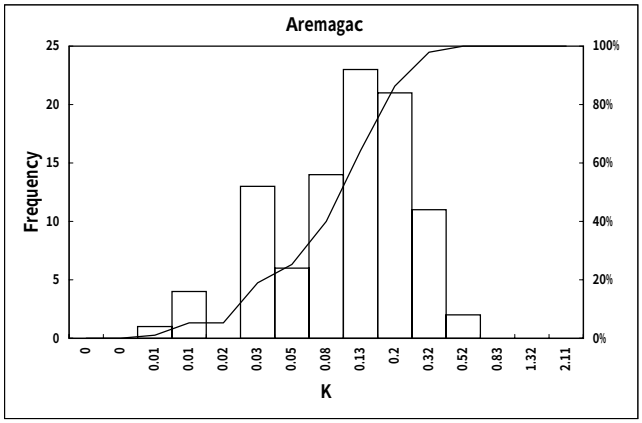


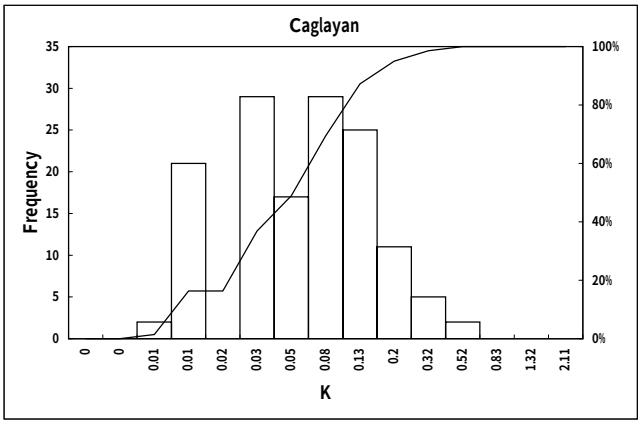


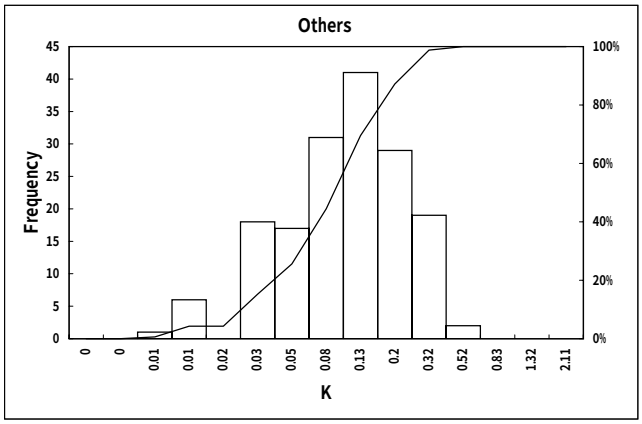


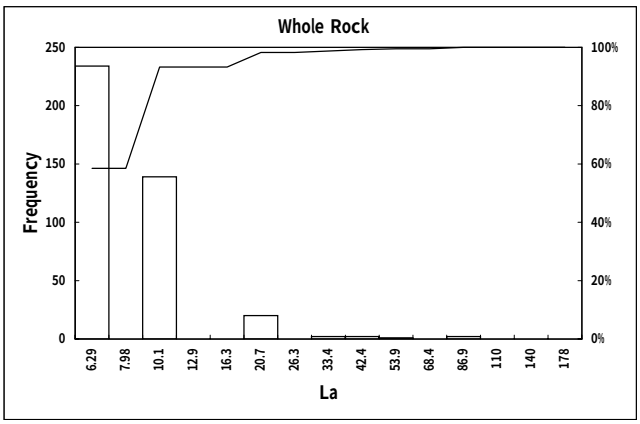
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (8)

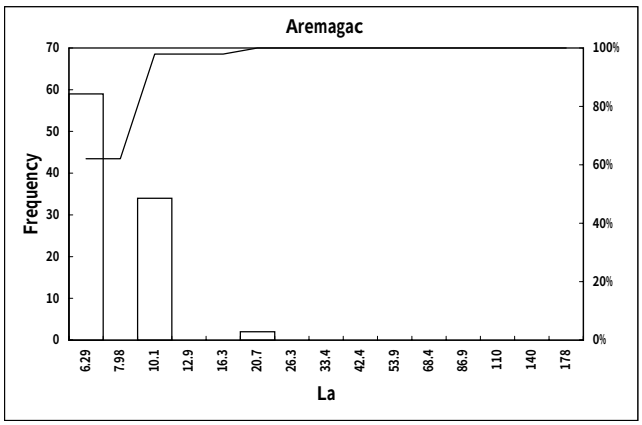


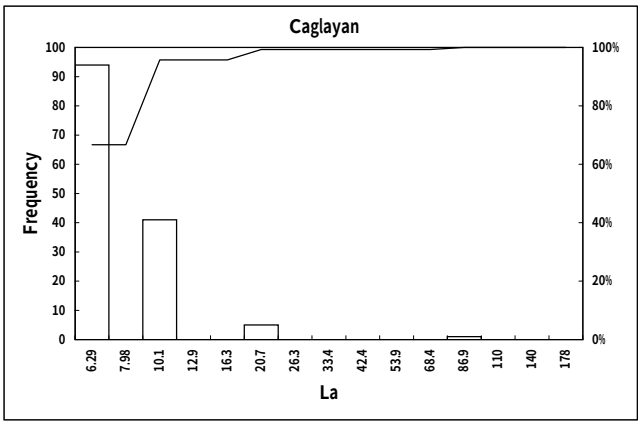


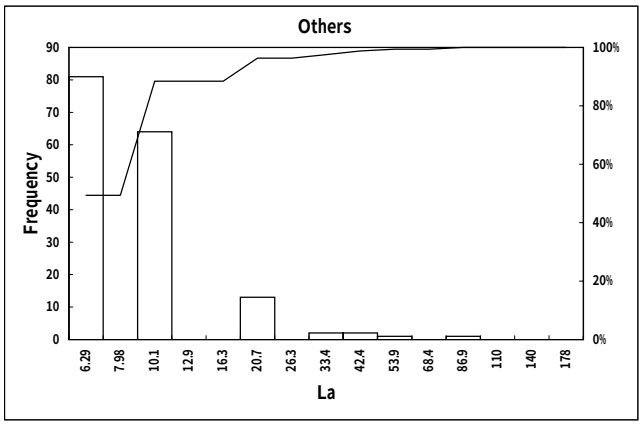




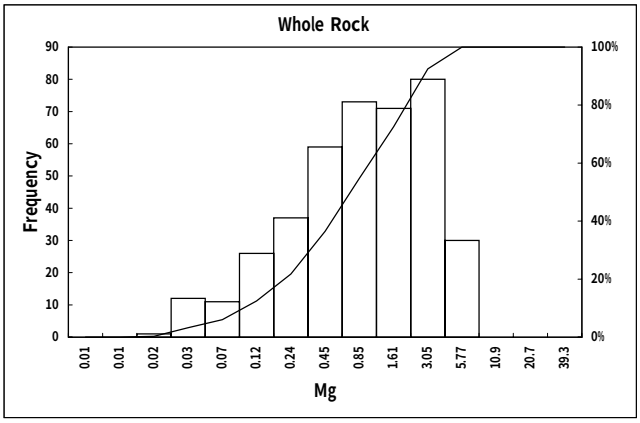


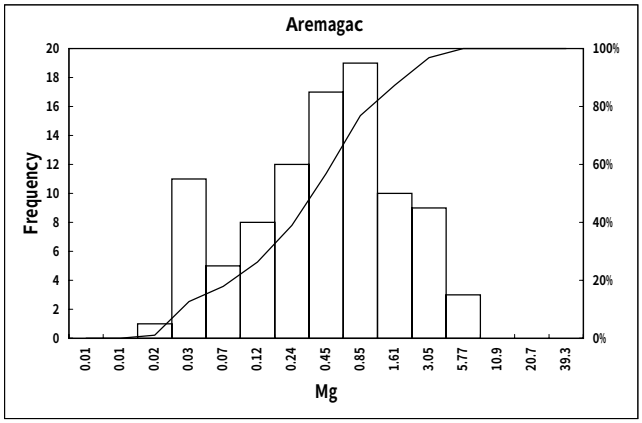


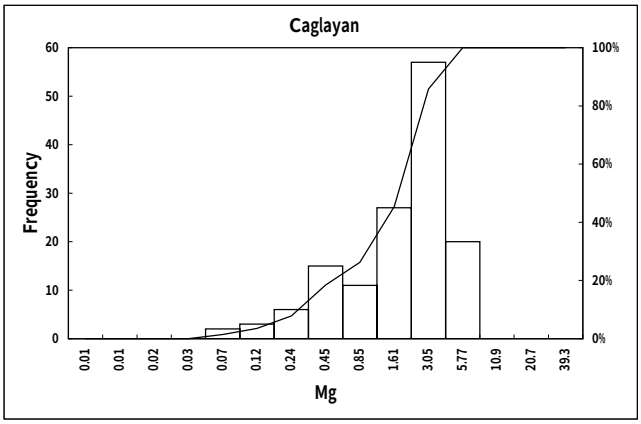


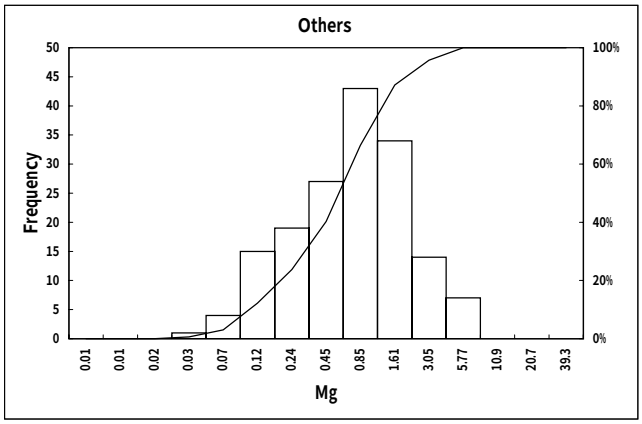


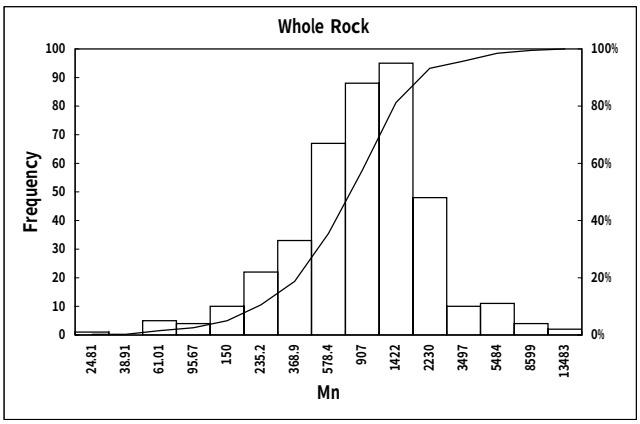
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (9)

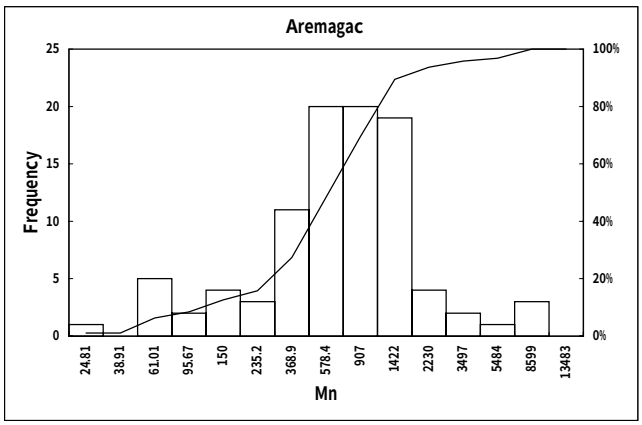


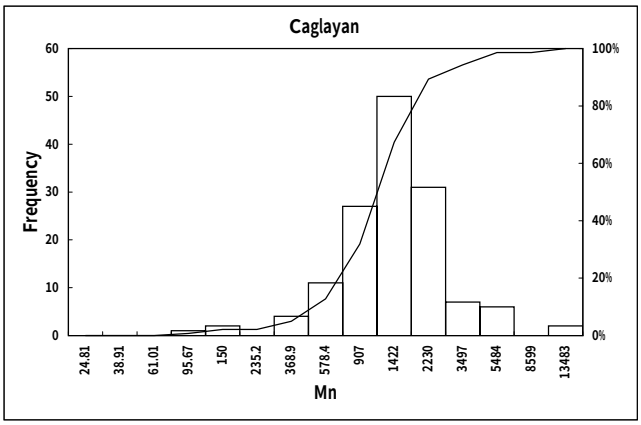


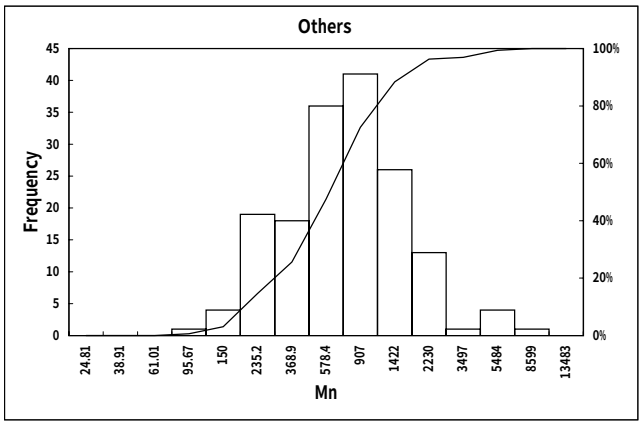




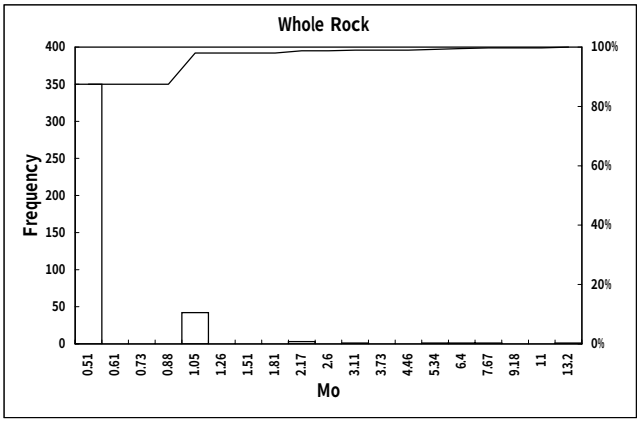


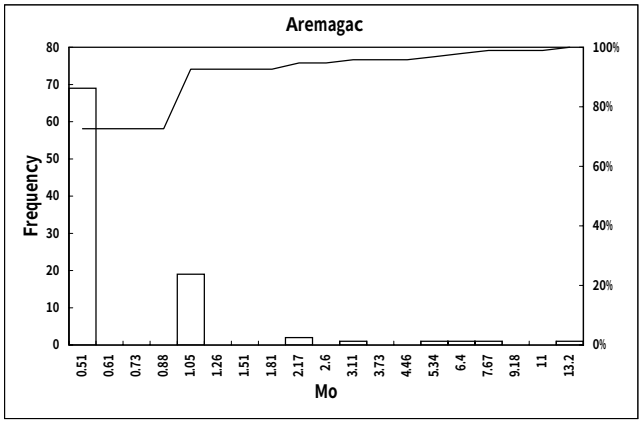


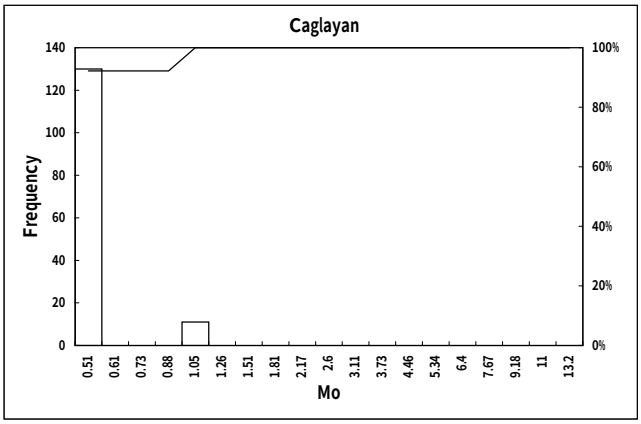


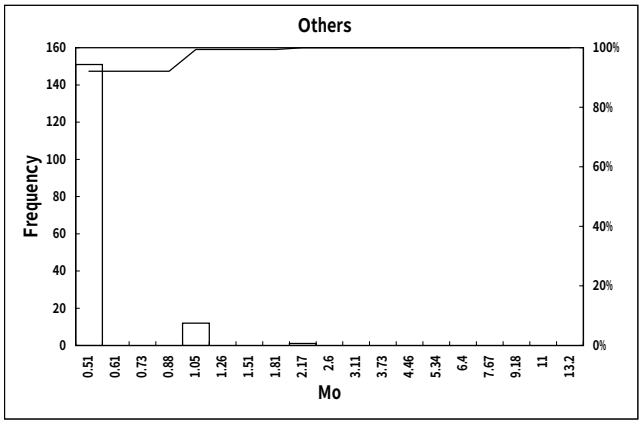


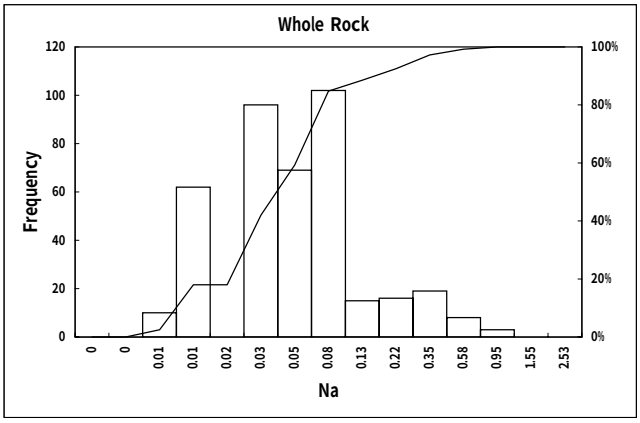
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (10)

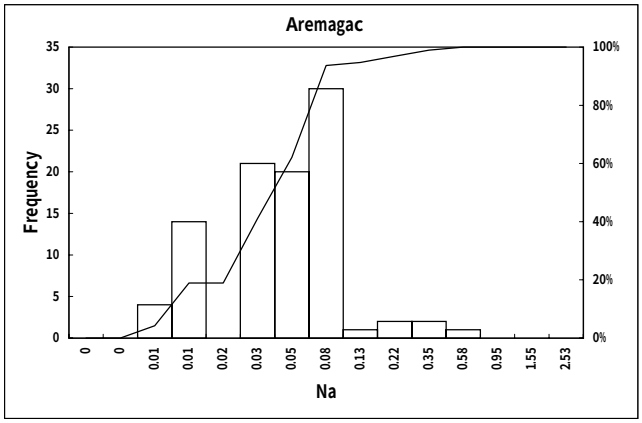


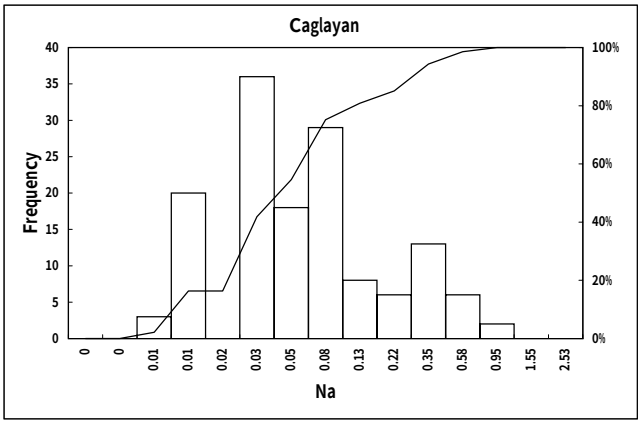


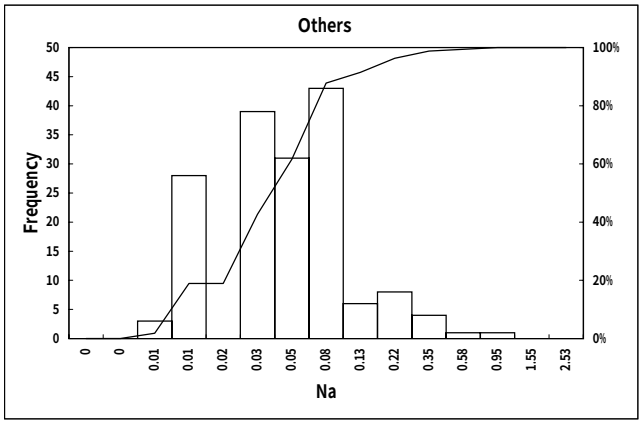




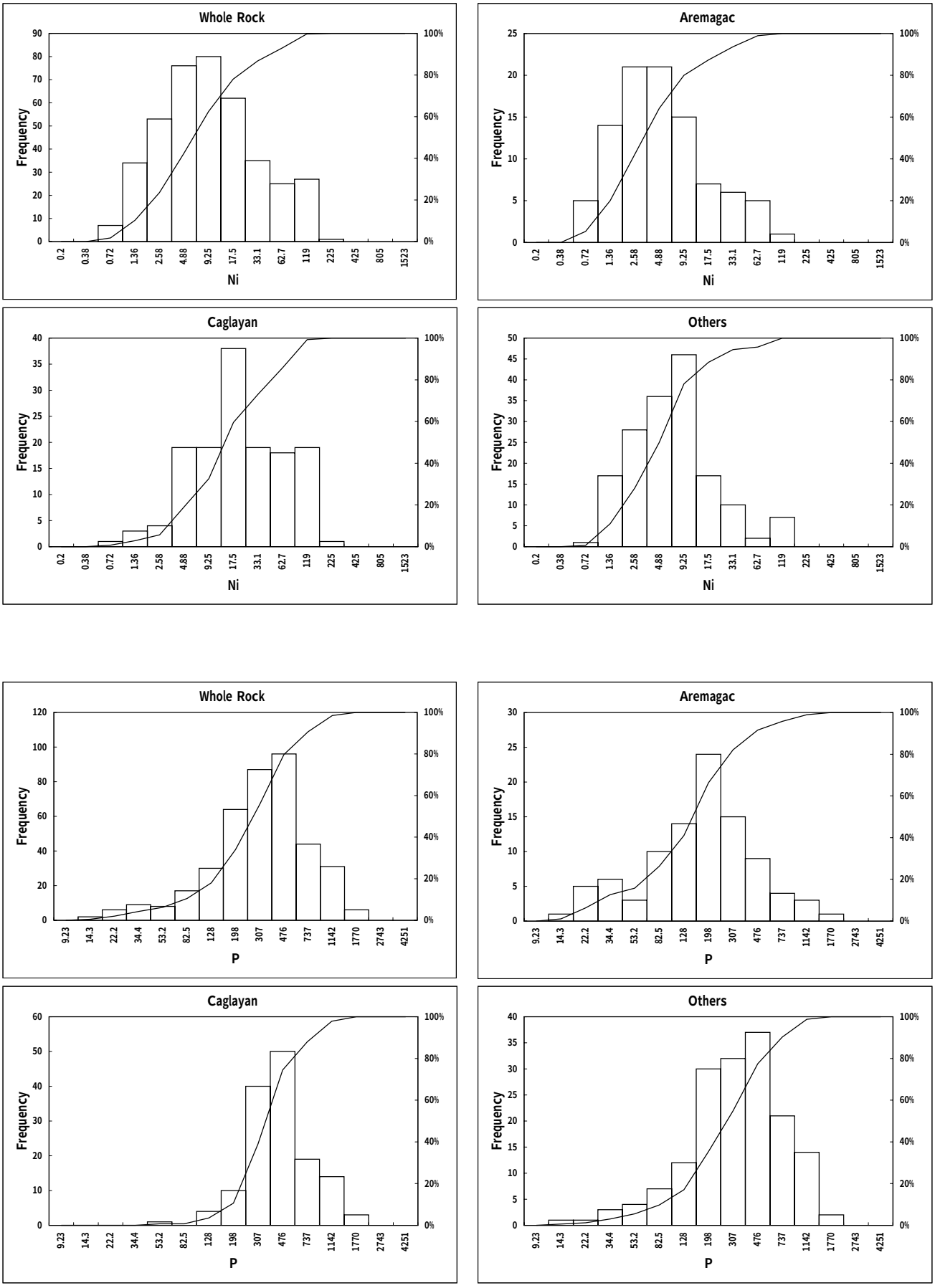




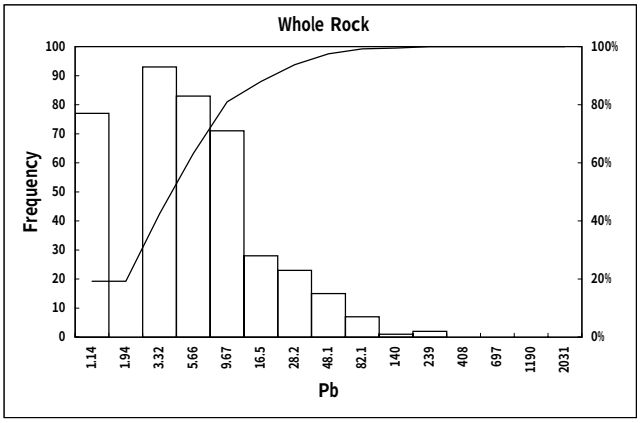


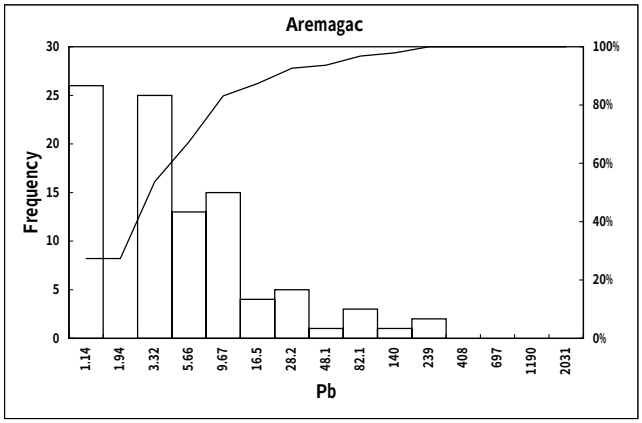


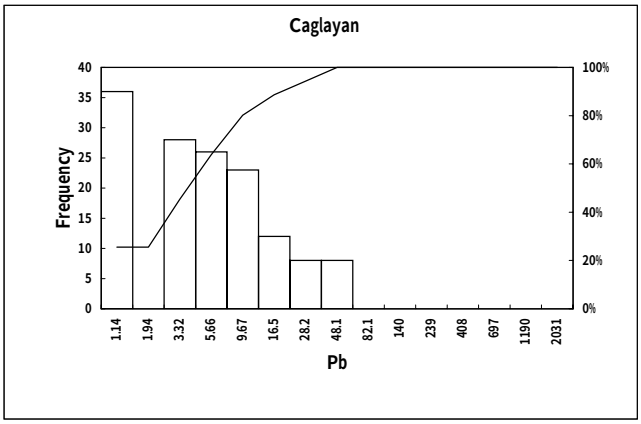
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (11)

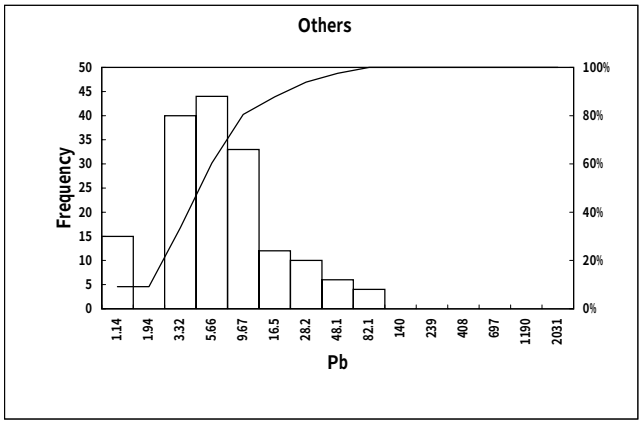


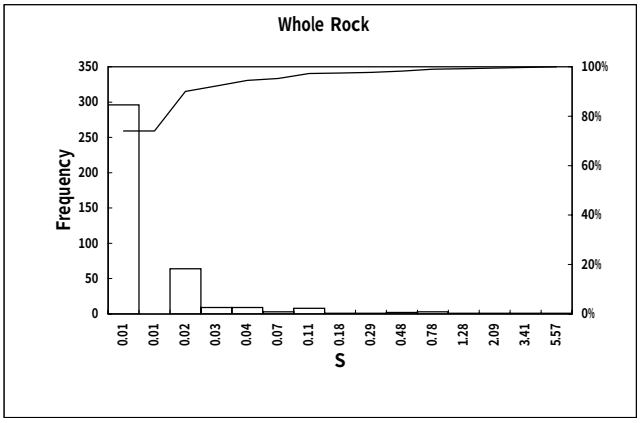
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (12)

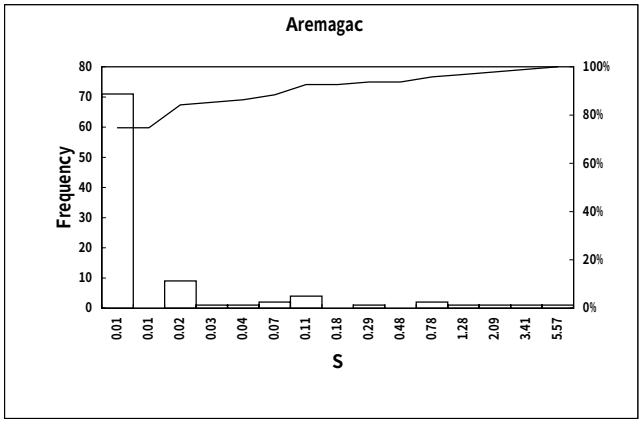


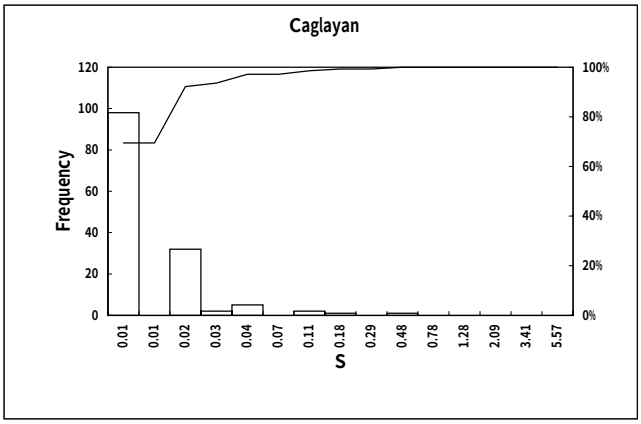


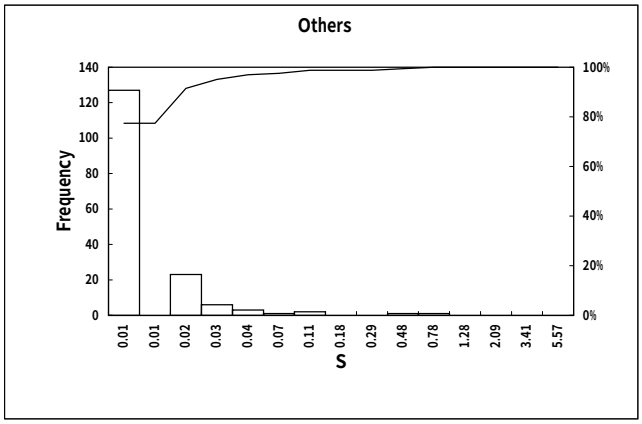




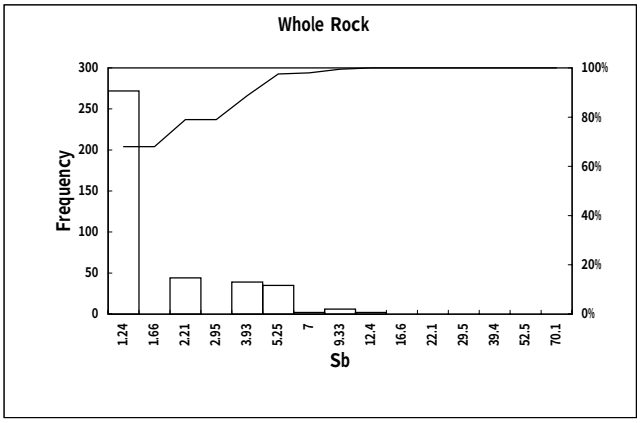


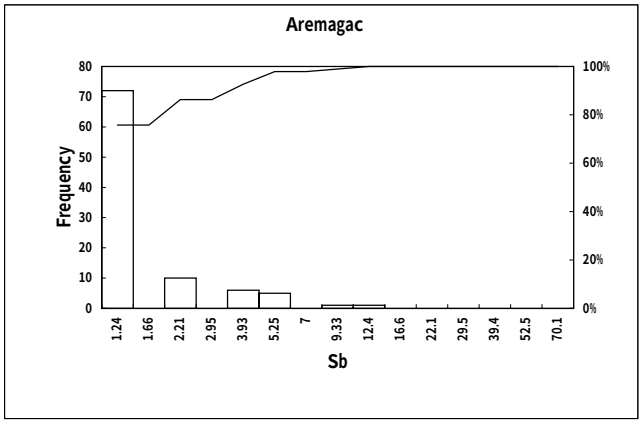


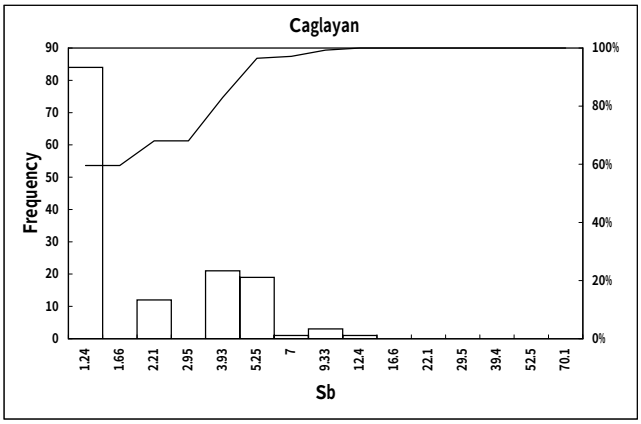


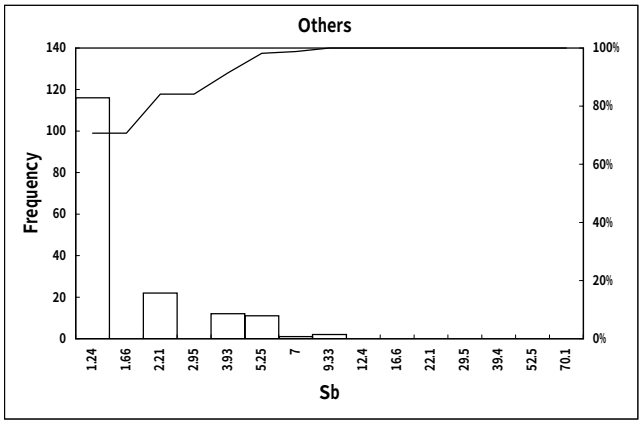


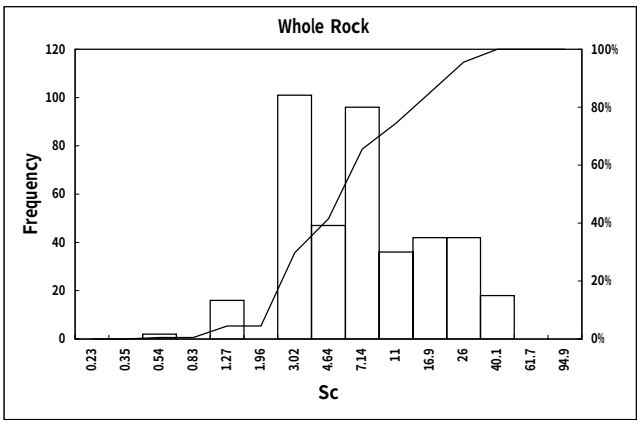
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (13)

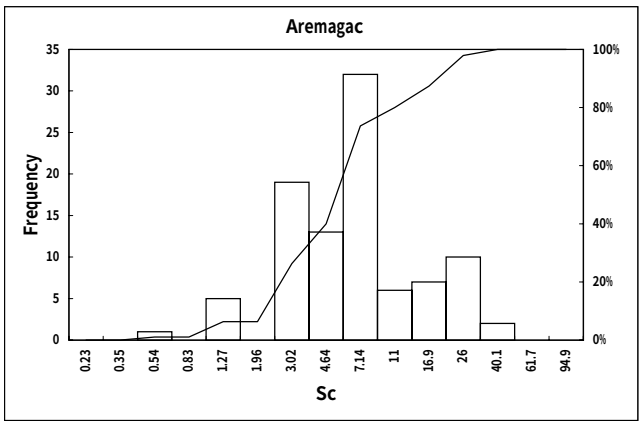


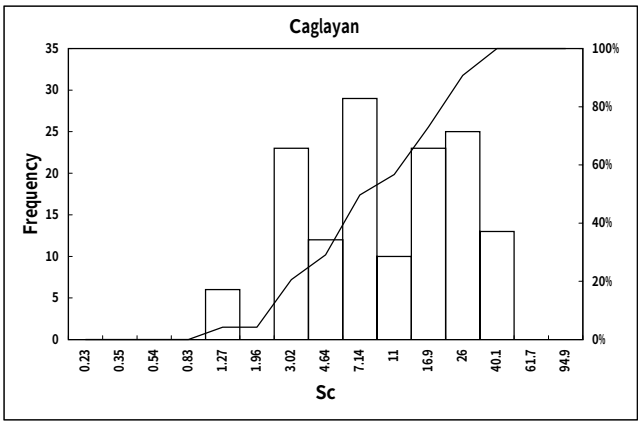


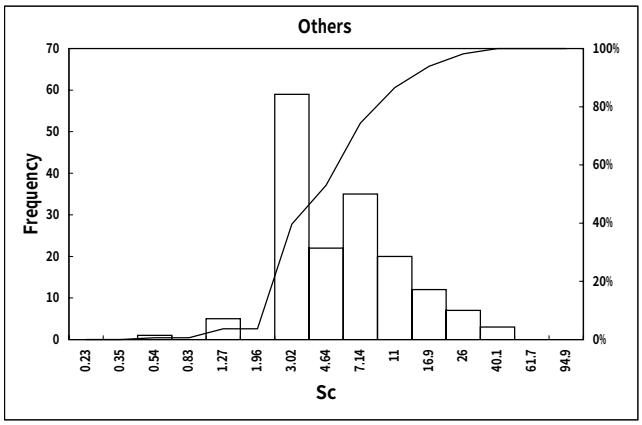




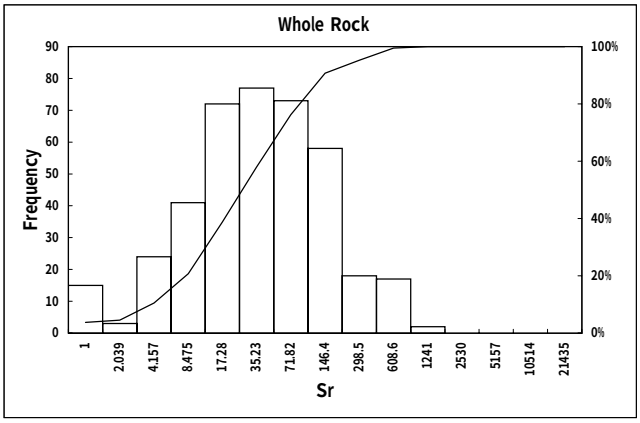


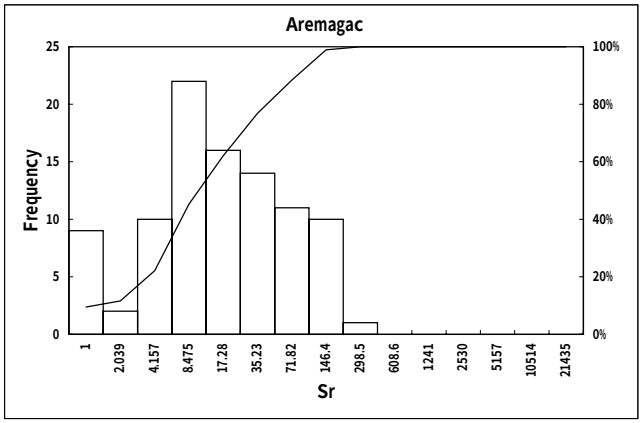


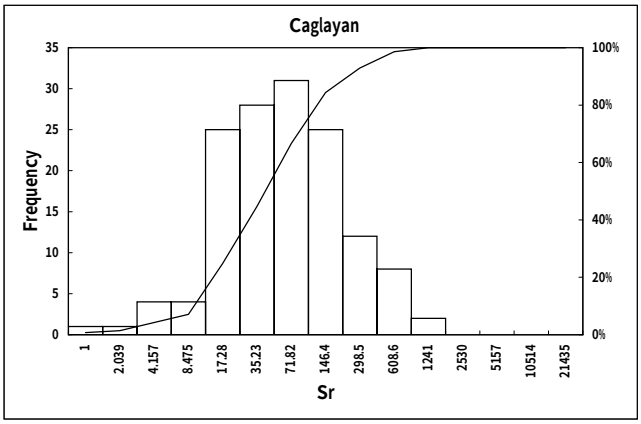


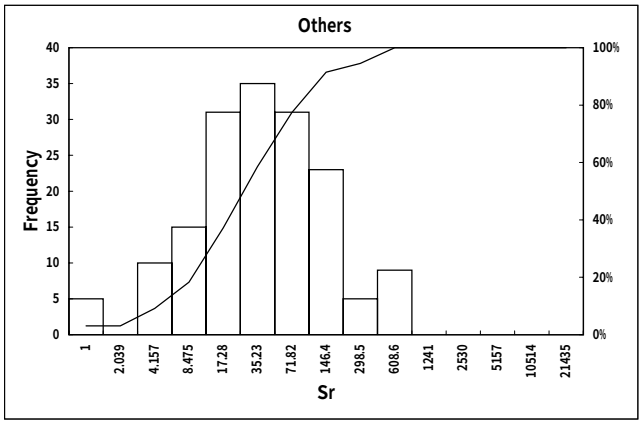


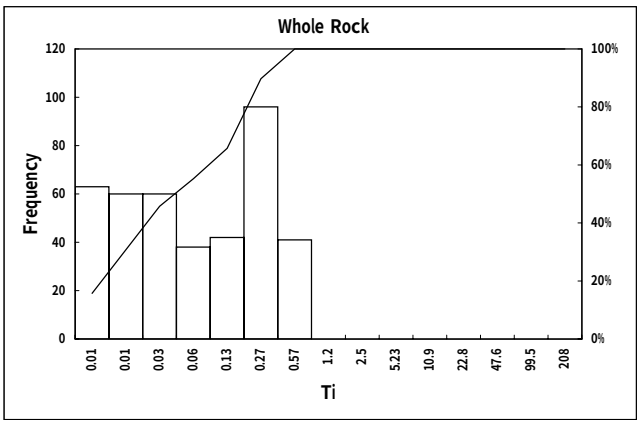
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (14)

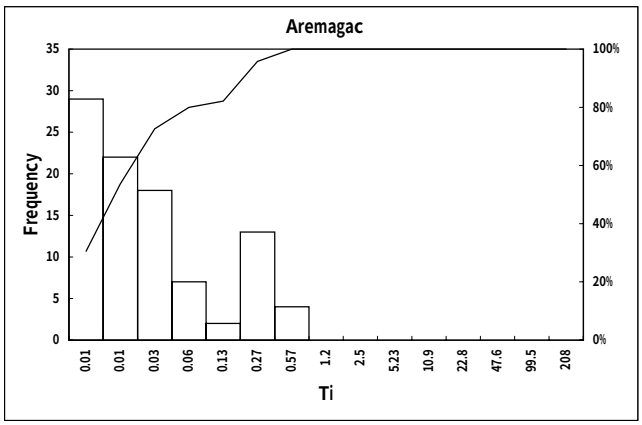


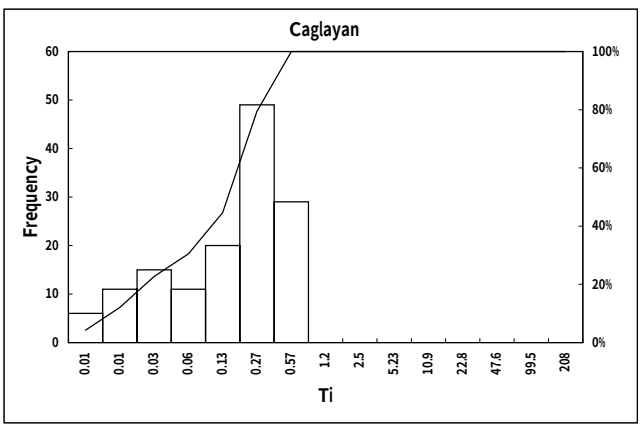


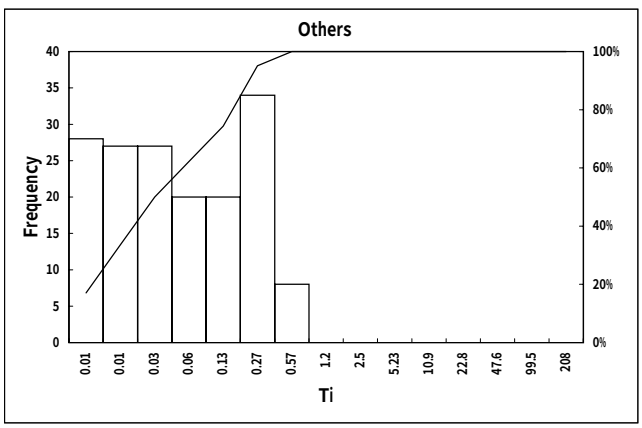




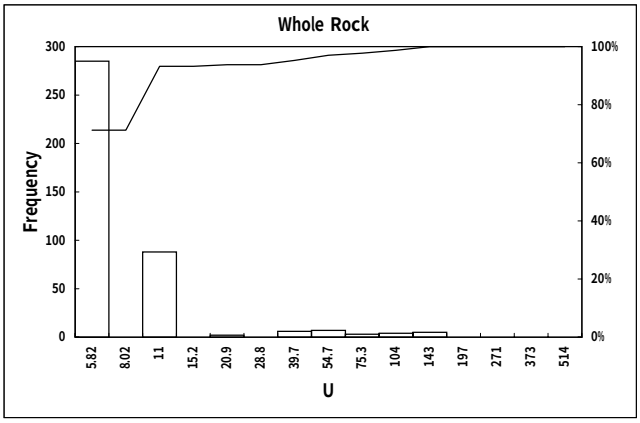


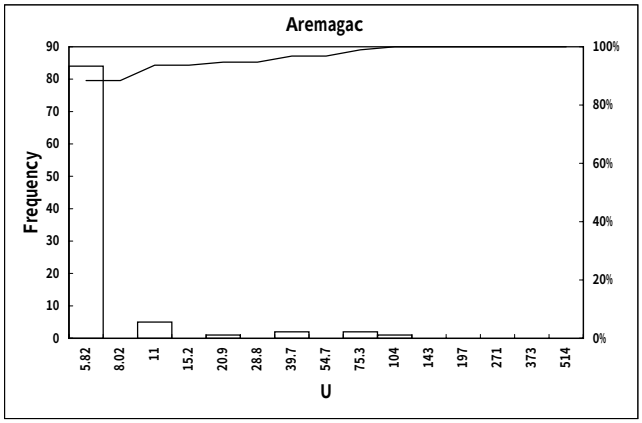


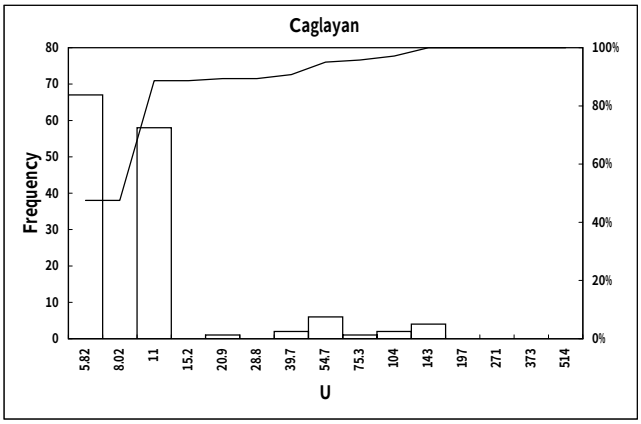


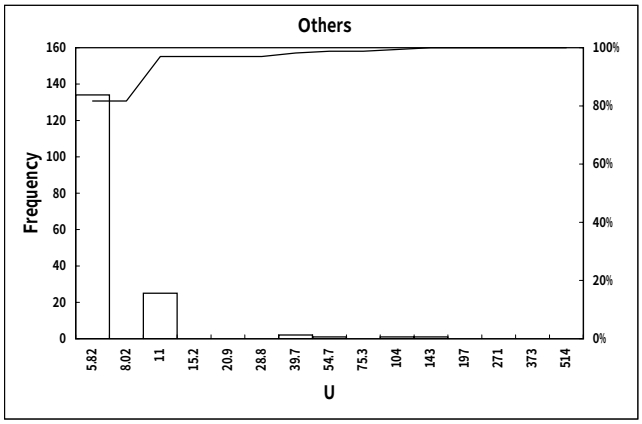


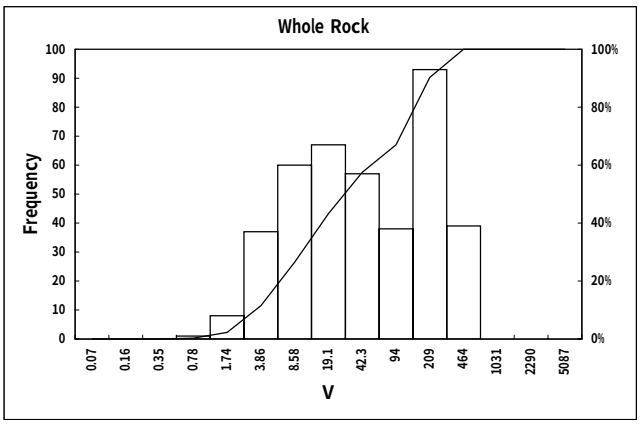
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (15)

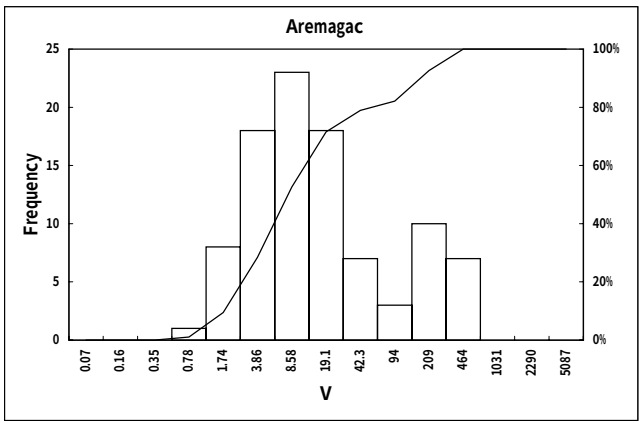


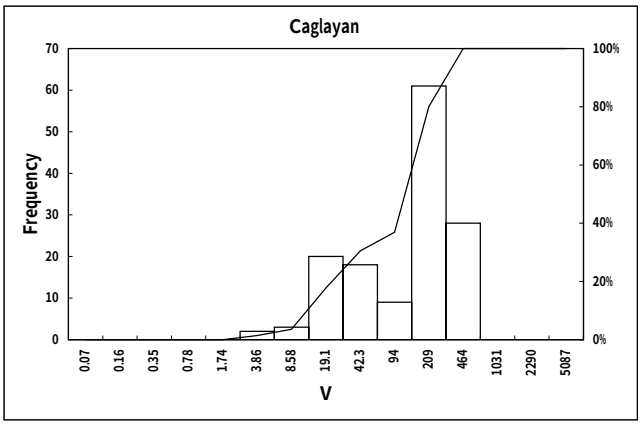


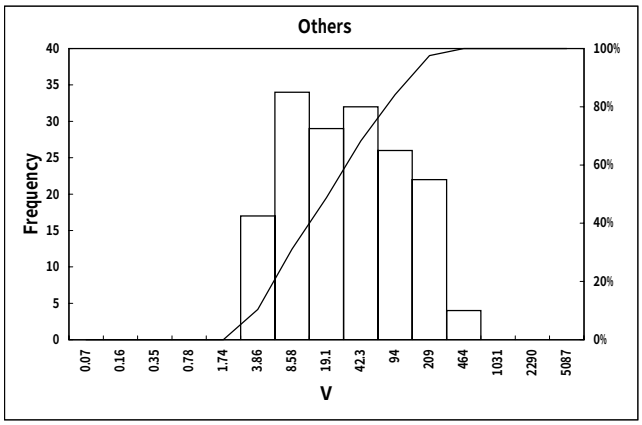




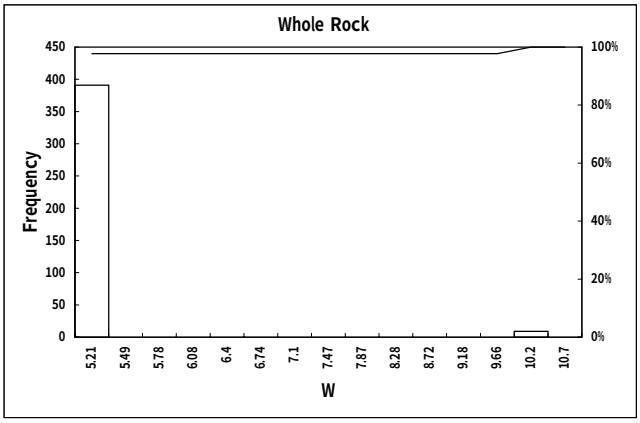


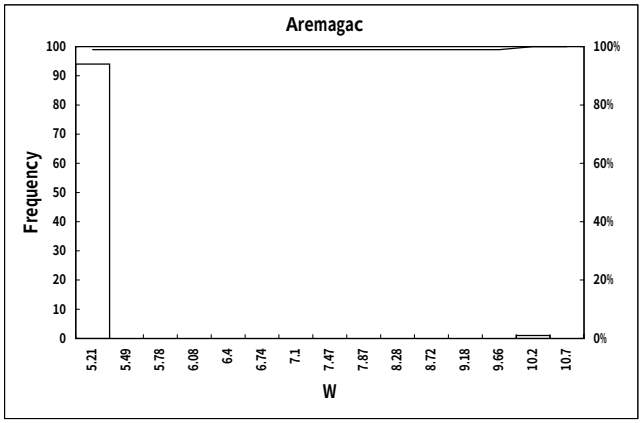


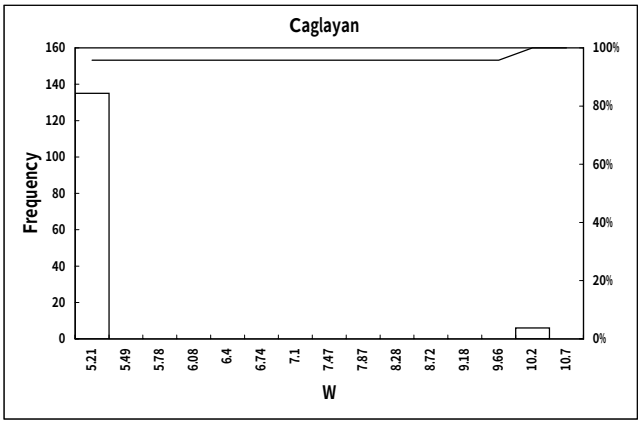


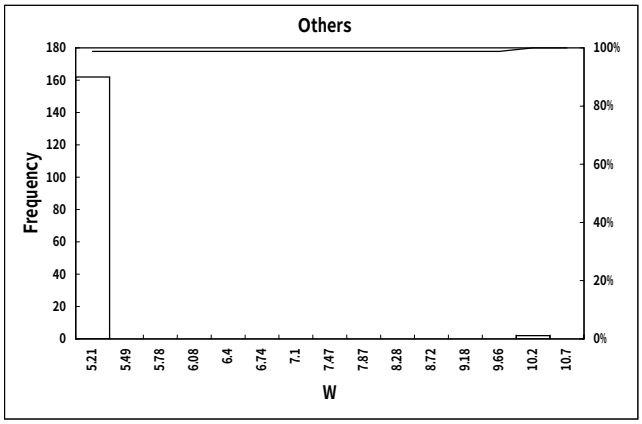


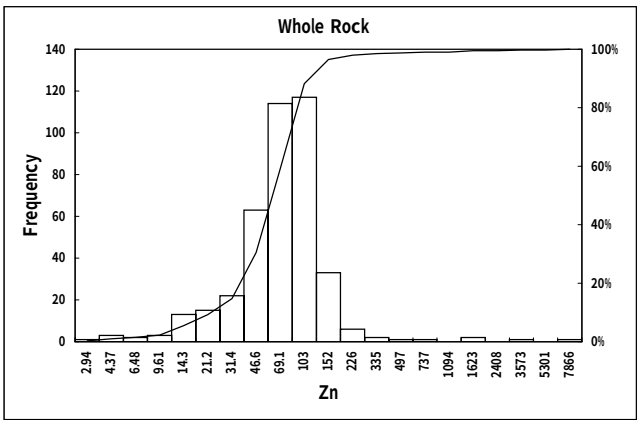
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (16)

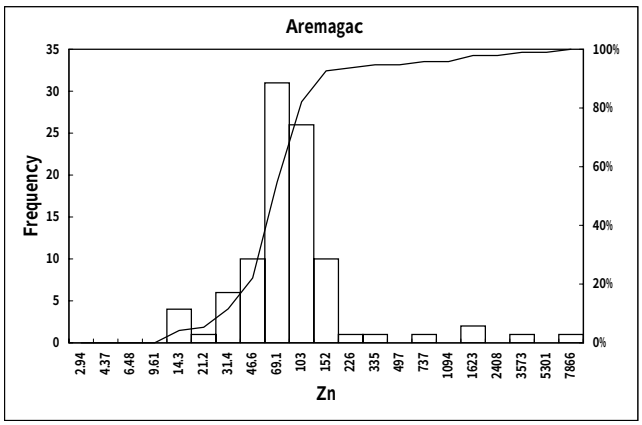


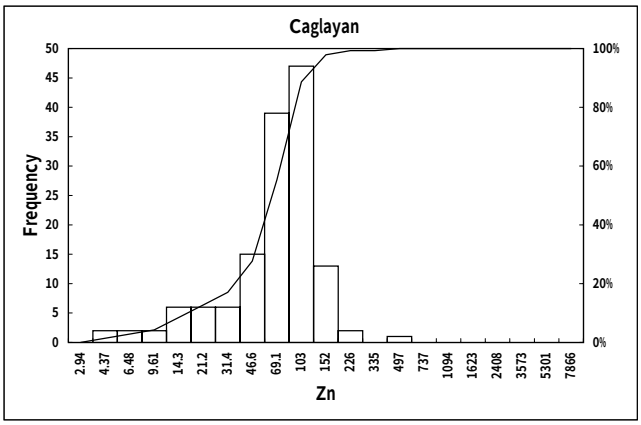


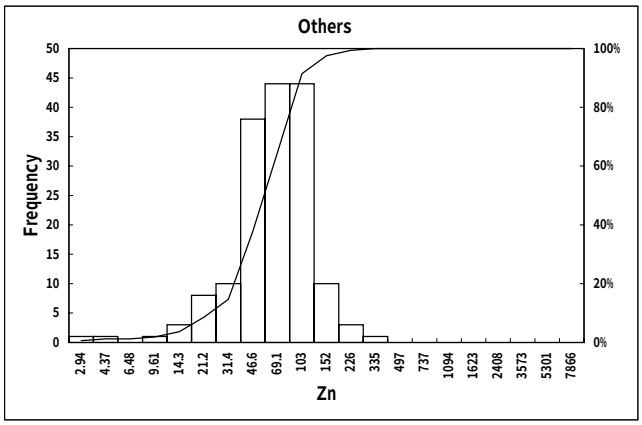








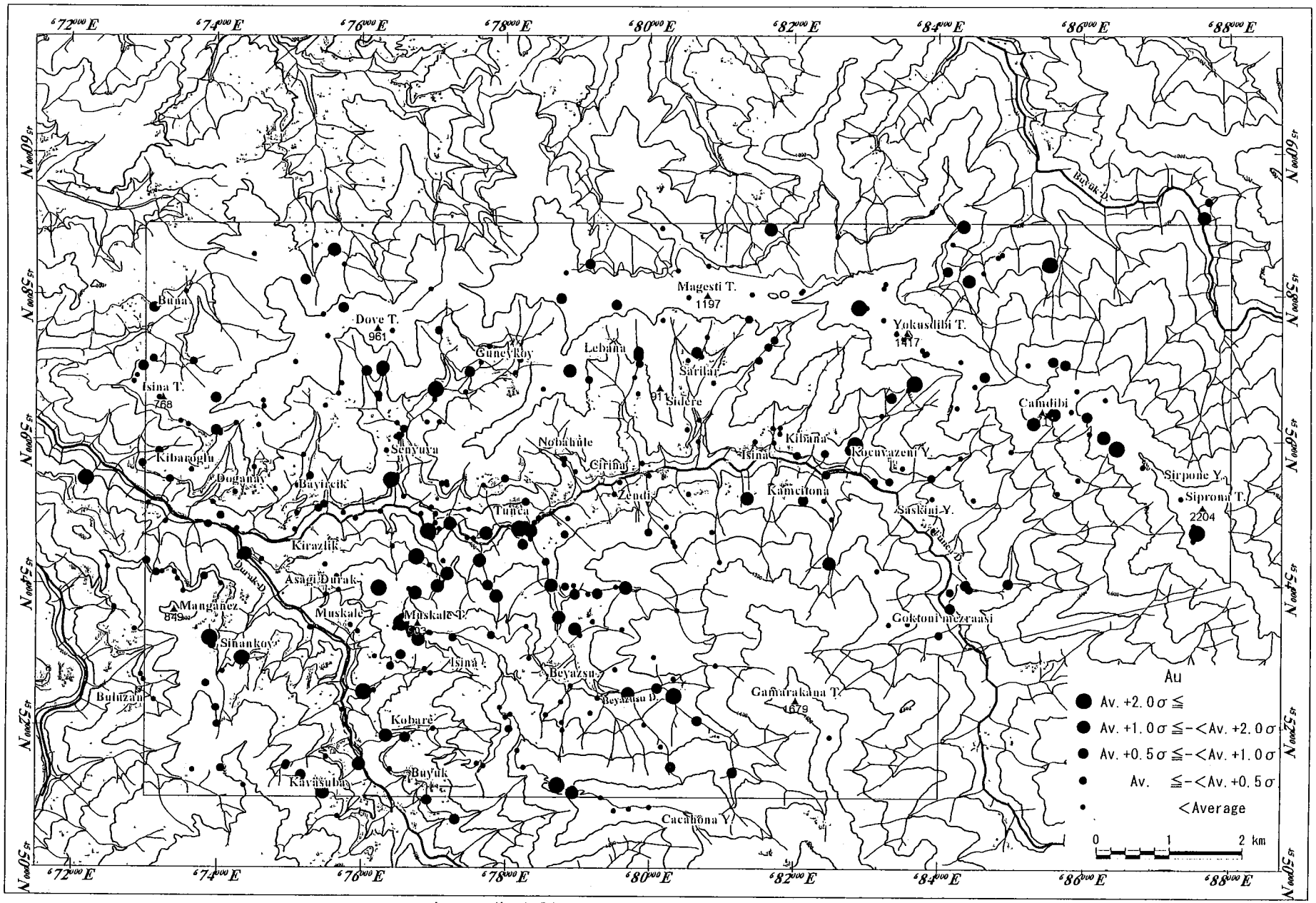




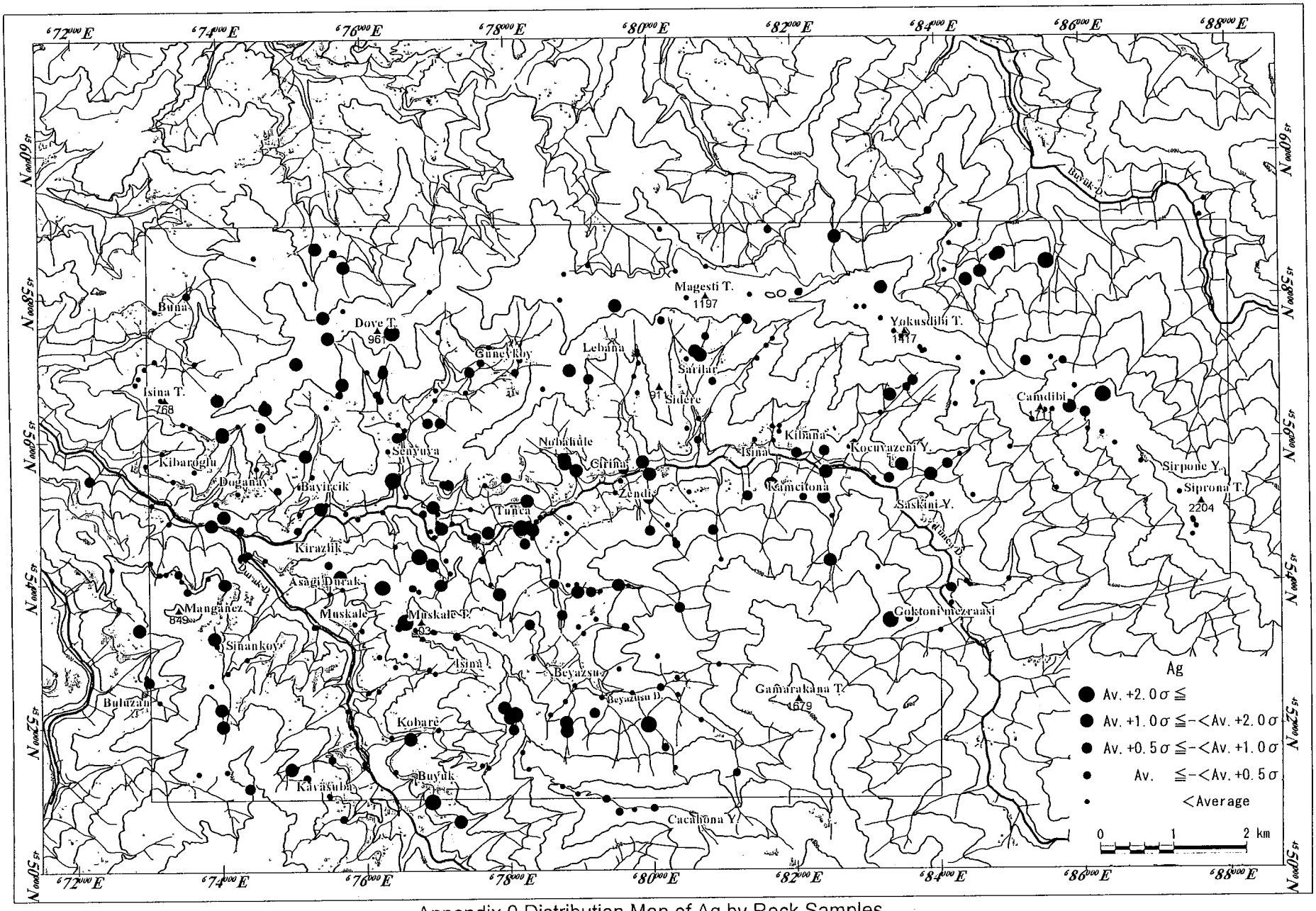
Appendix 8 Cumulative Frequency Diagram and Histogram (Rock) (17)

Appendix 9

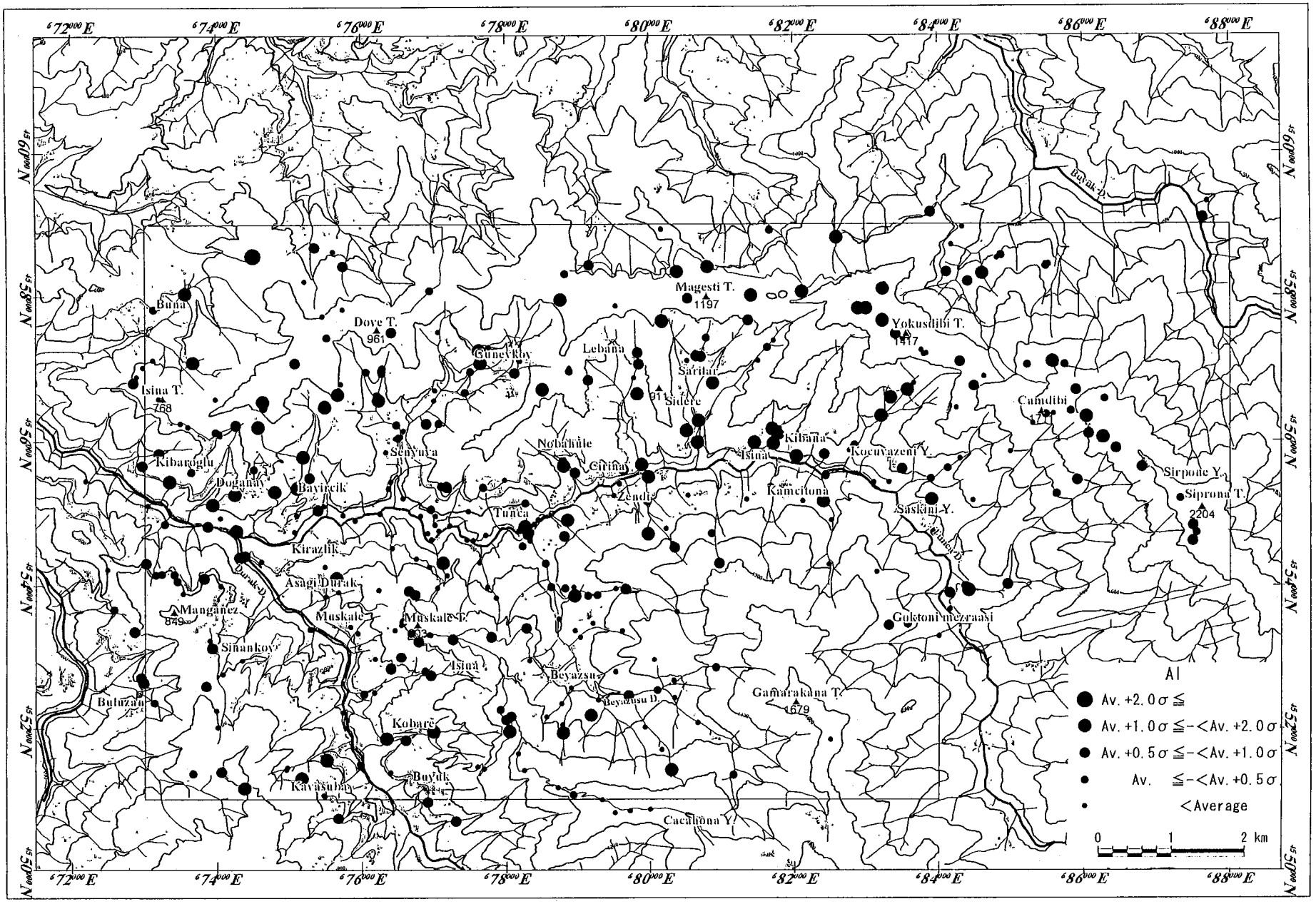
Distribution Map of Au by Rock Samples



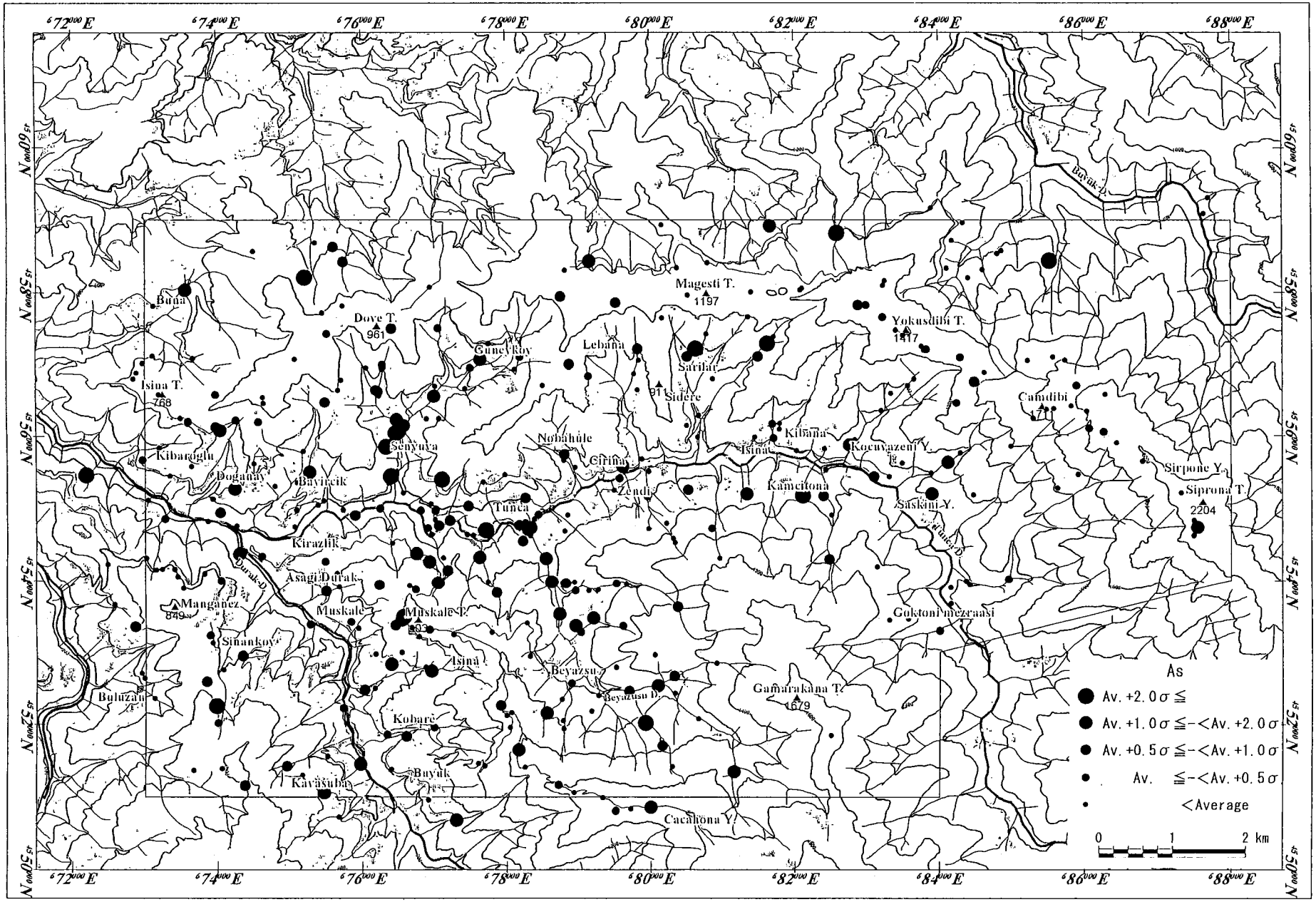
Appendix 9 Distribution Map of Au by Rock Samples



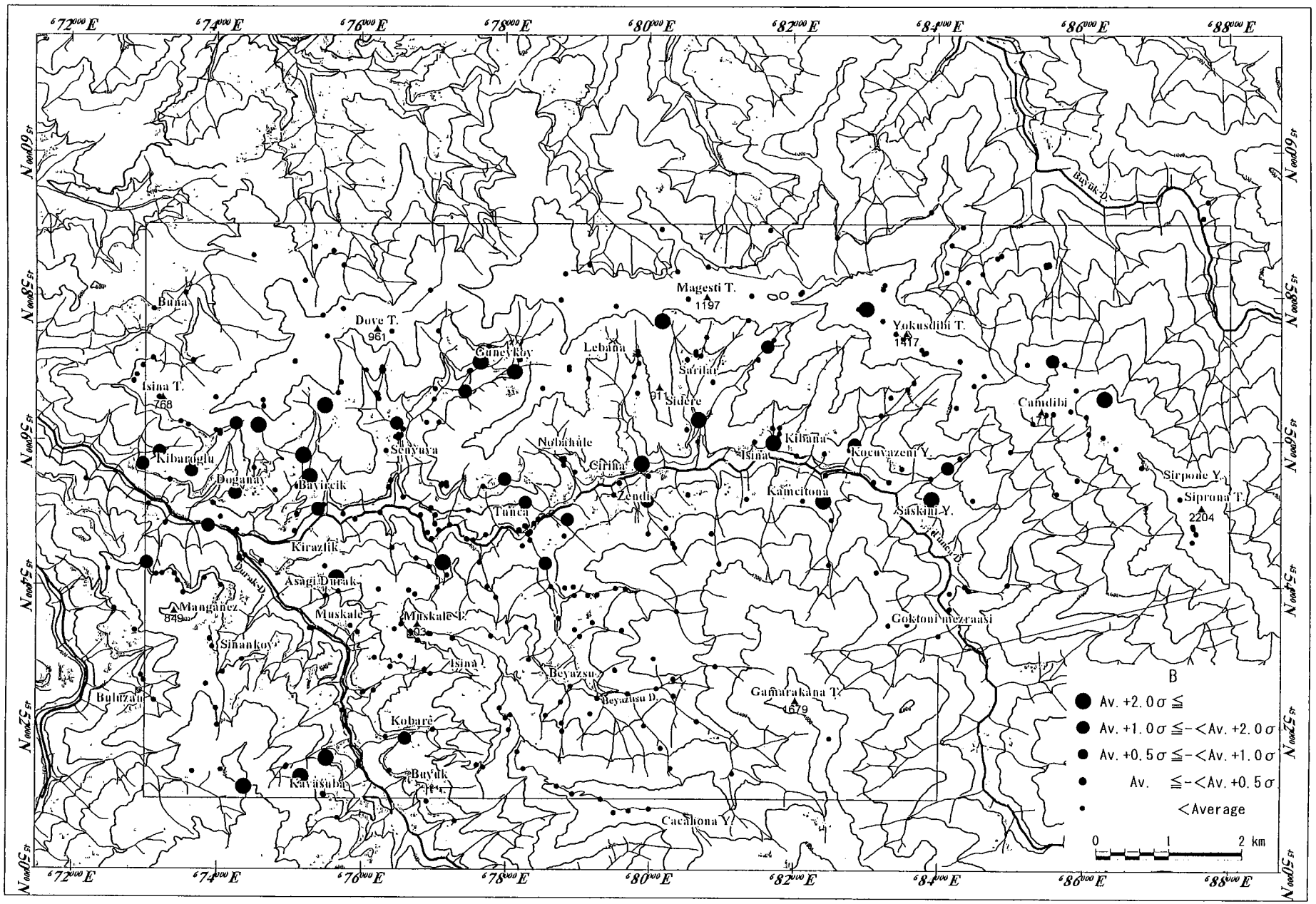
Appendix 9 Distribution Map of Ag by Rock Samples



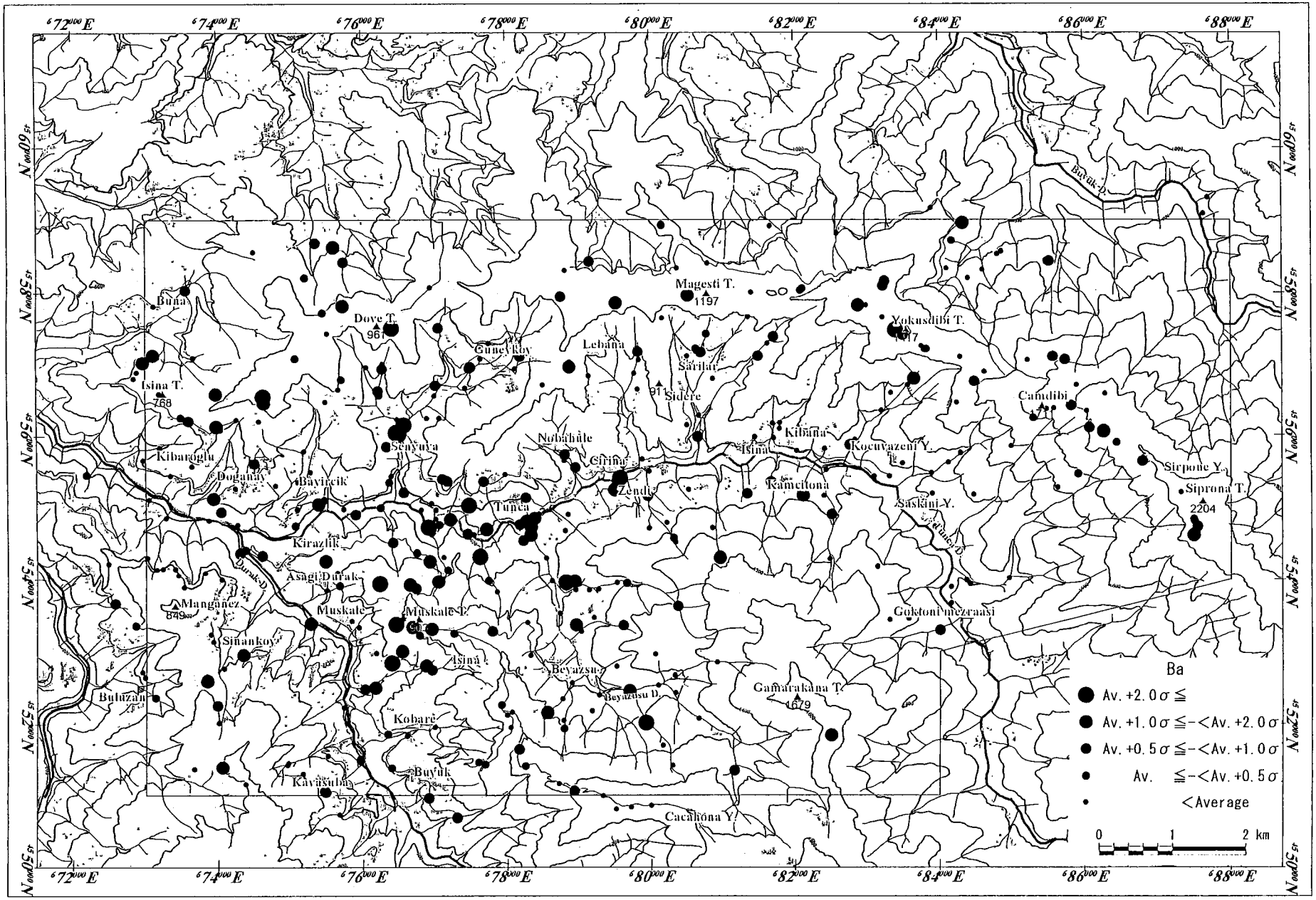
Appendix 9 Distribution Map of Al by Rock Samples



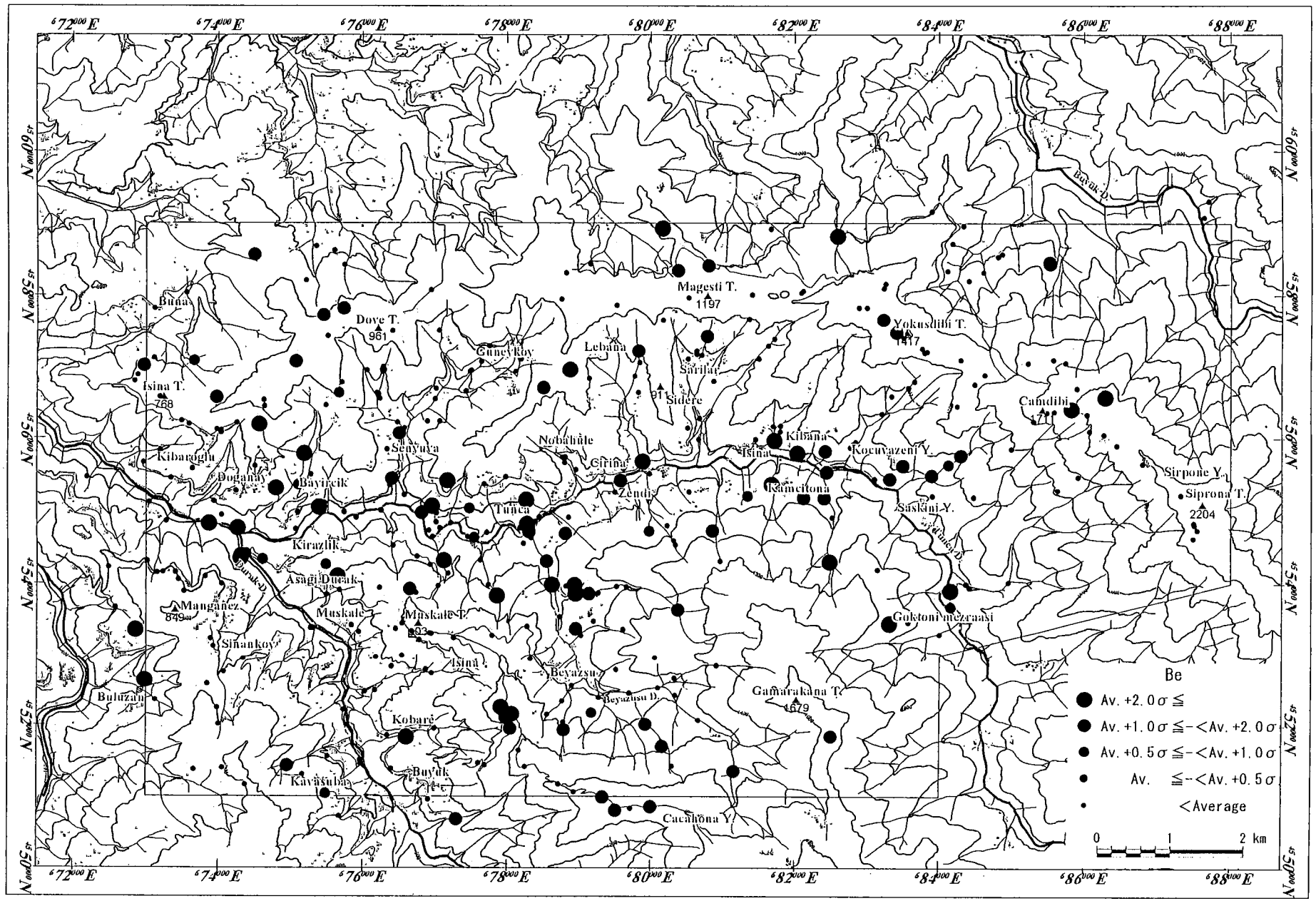
Appendix 9 Distribution Map of As by Rock Samples



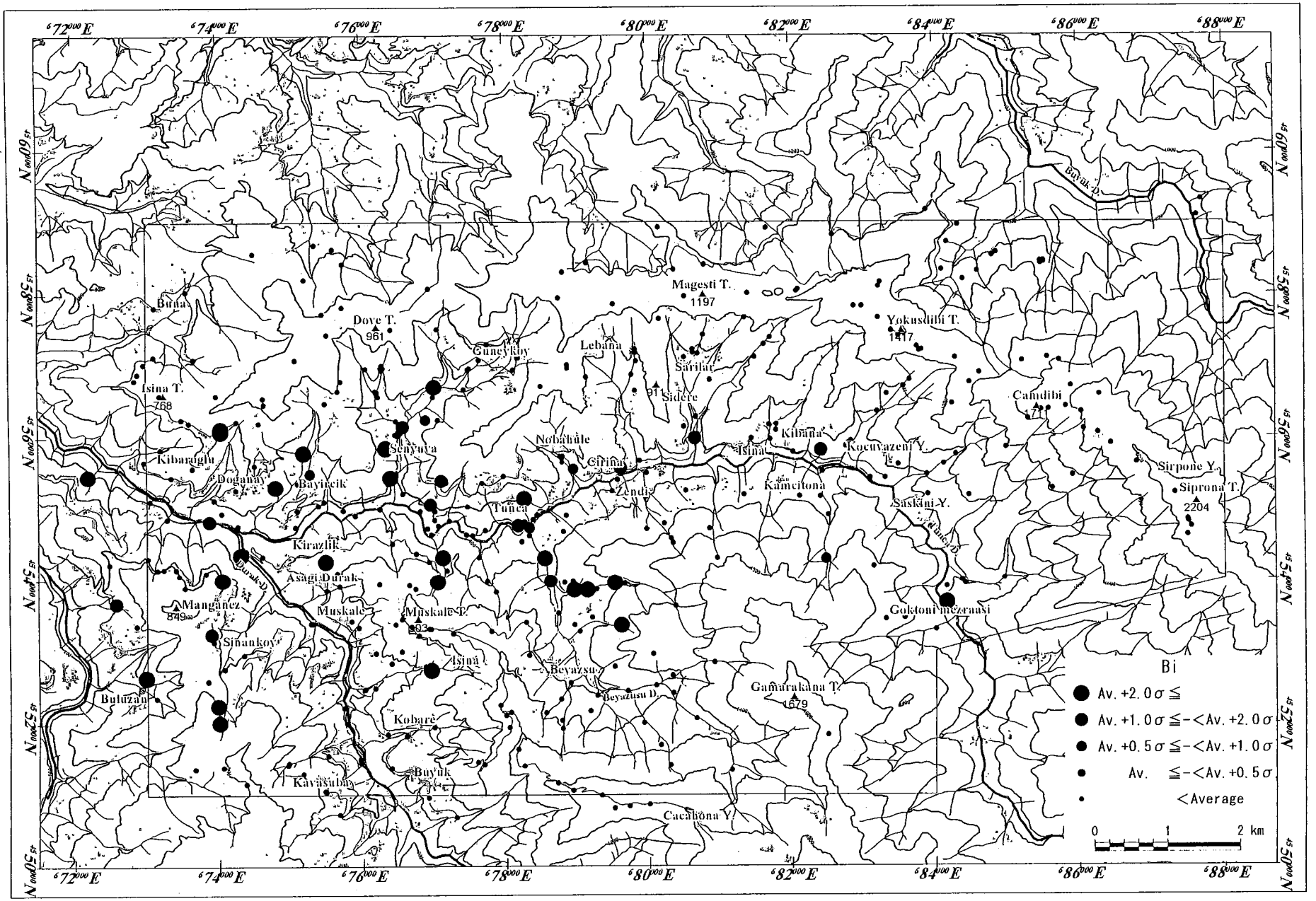
Appendix 9 Distribution Map of B by Rock Samples



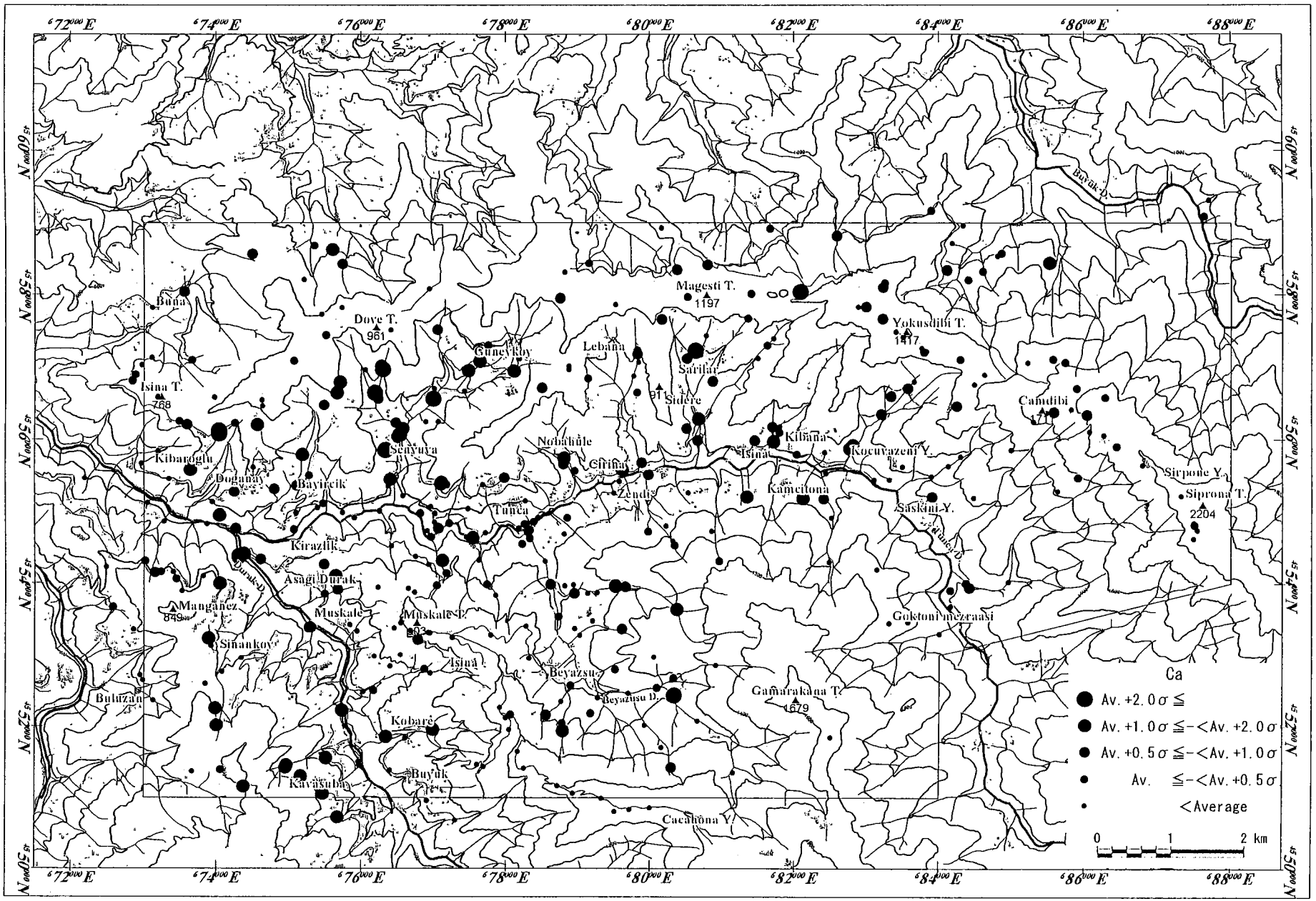
Appendix 9 Distribution Map of Ba by Rock Samples



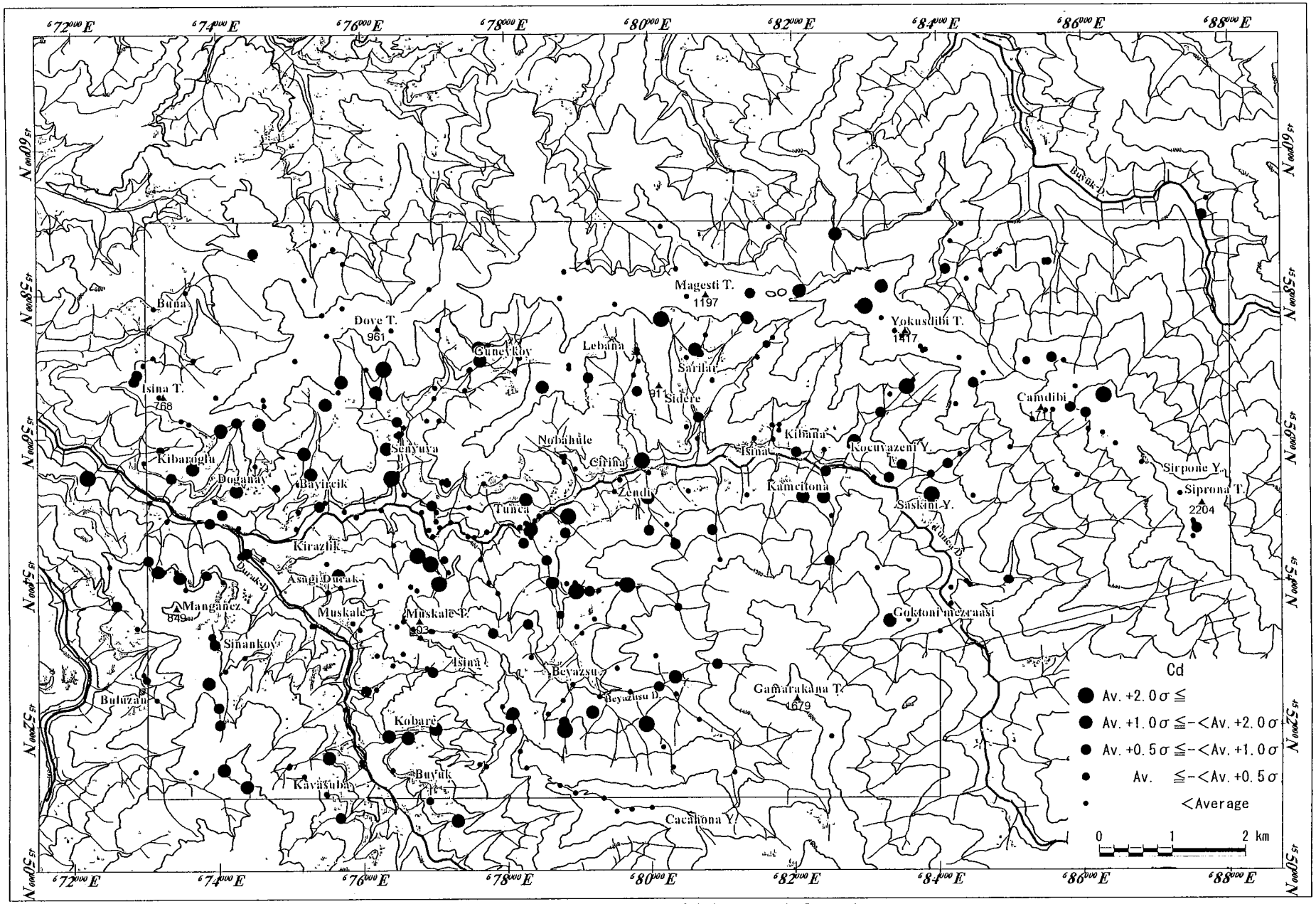
Appendix 9 Distribution Map of Be by Rock Samples



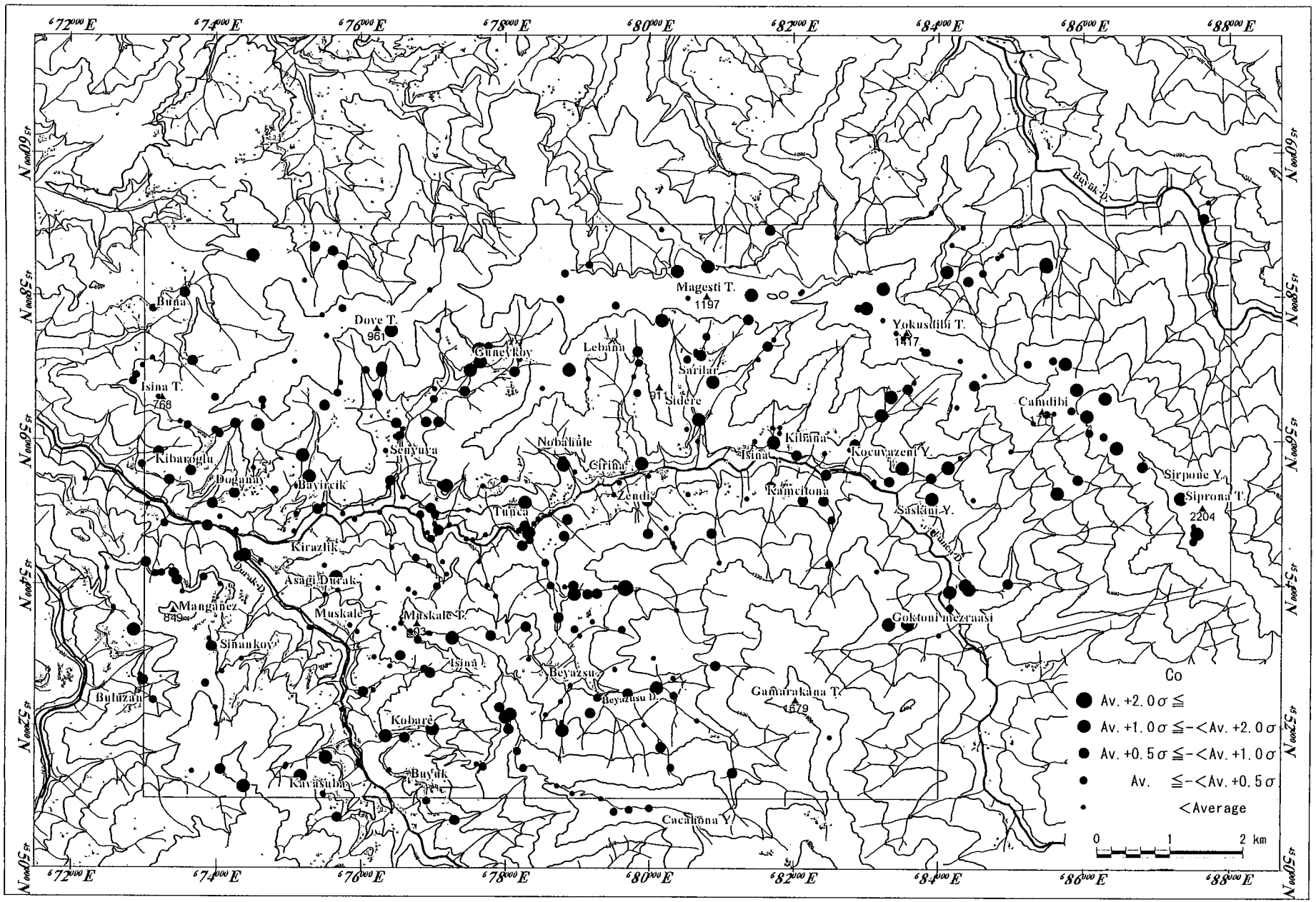
Appendix 9 Distribution Map of Bi by Rock Samples



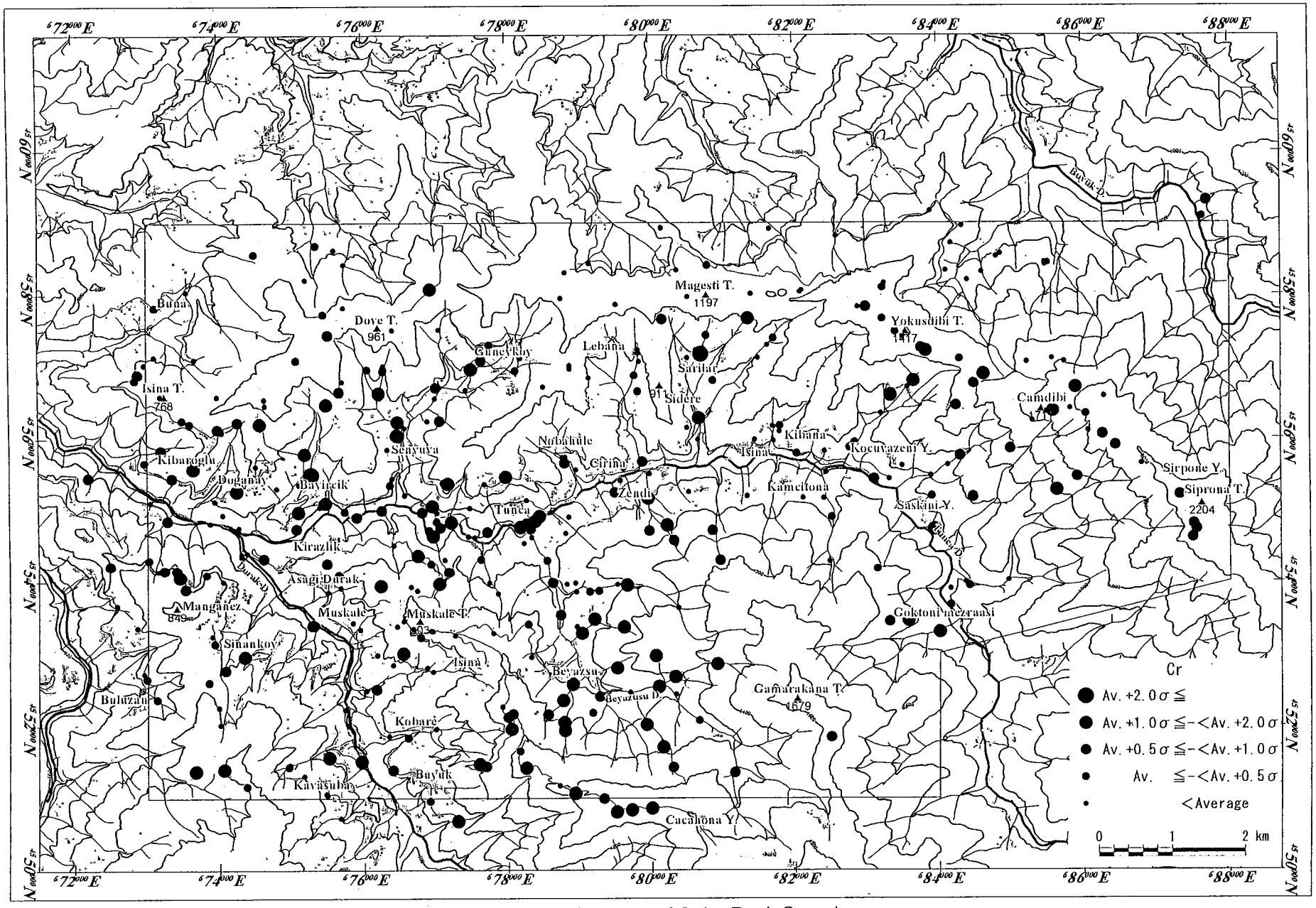
Appendix 9 Distribution Map of Ca by Rock Samples



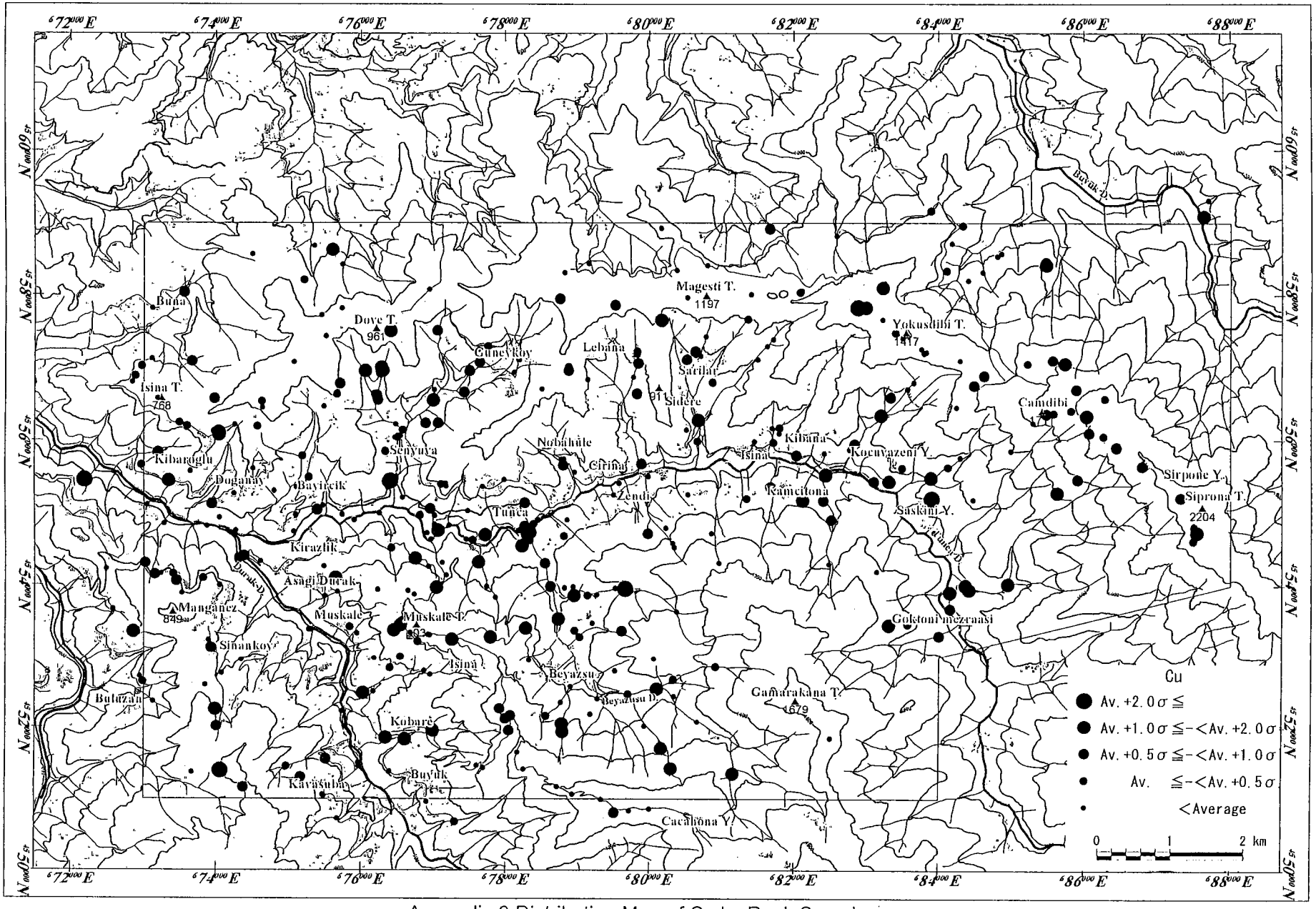
Appendix 9 Distribution Map of Cd by Rock Samples



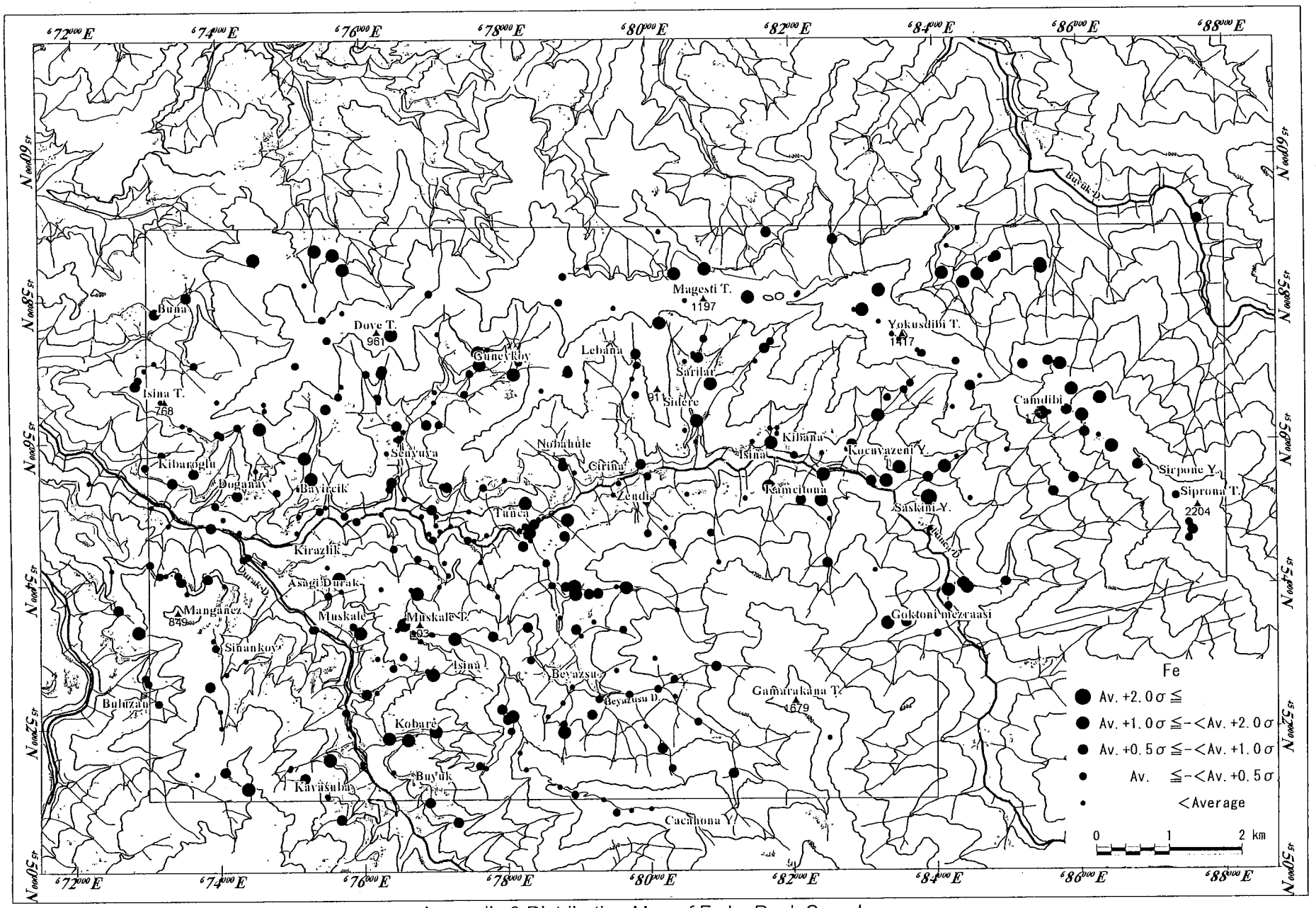
Appendix 9 Distribution Map of Co by Rock Samples



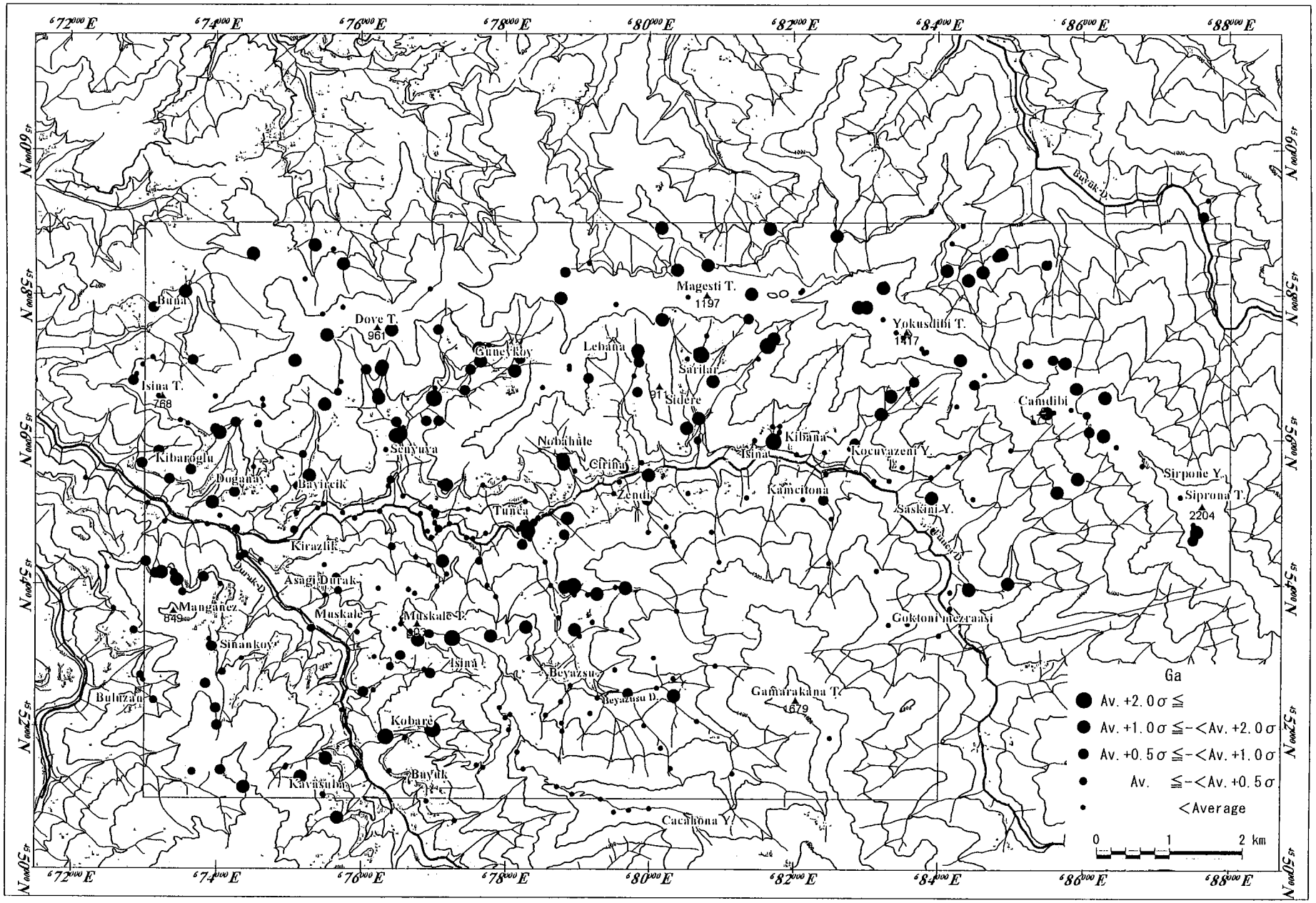
Appendix 9 Distribution Map of Cr by Rock Samples



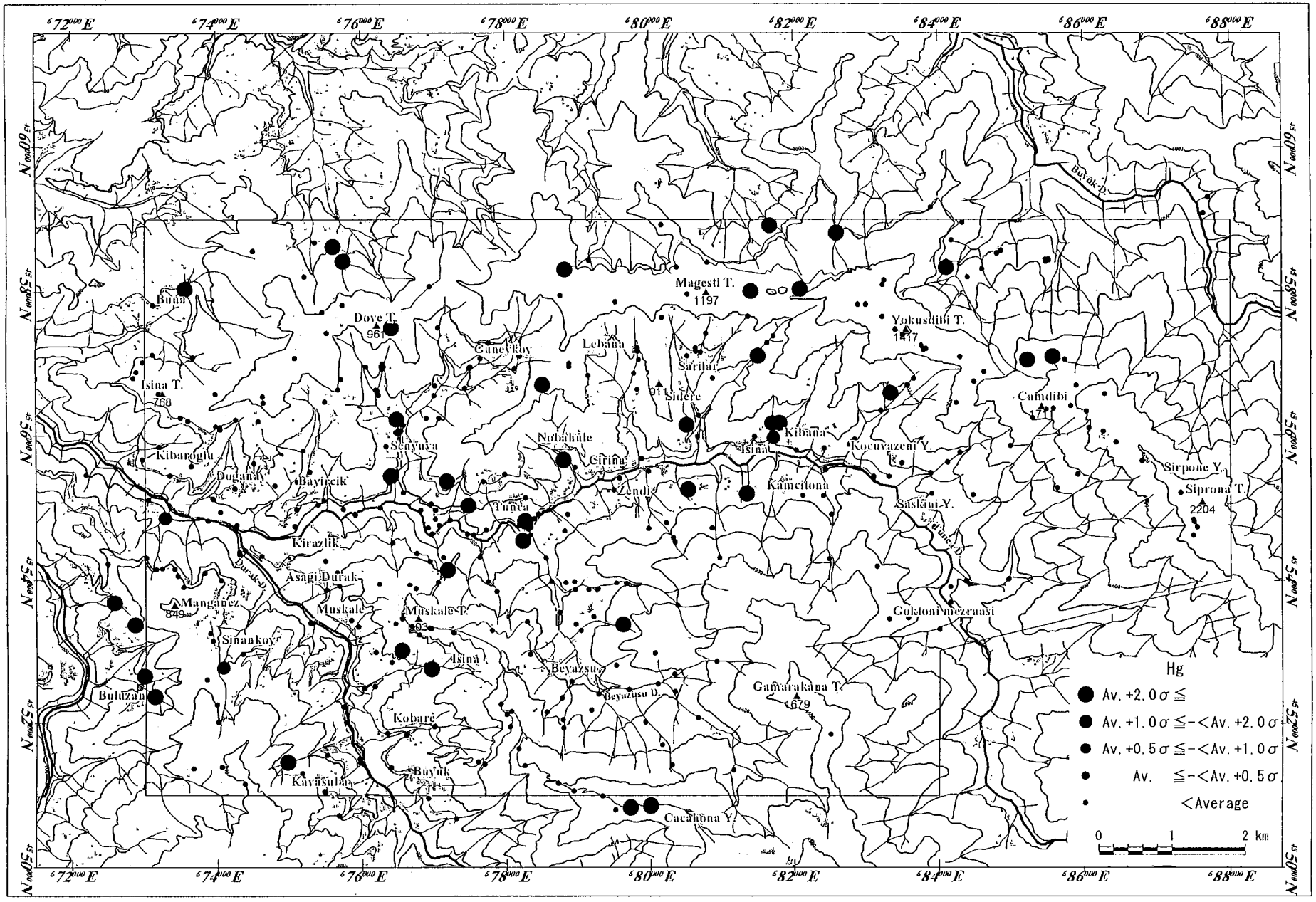
Appendix 9 Distribution Map of Cu by Rock Samples



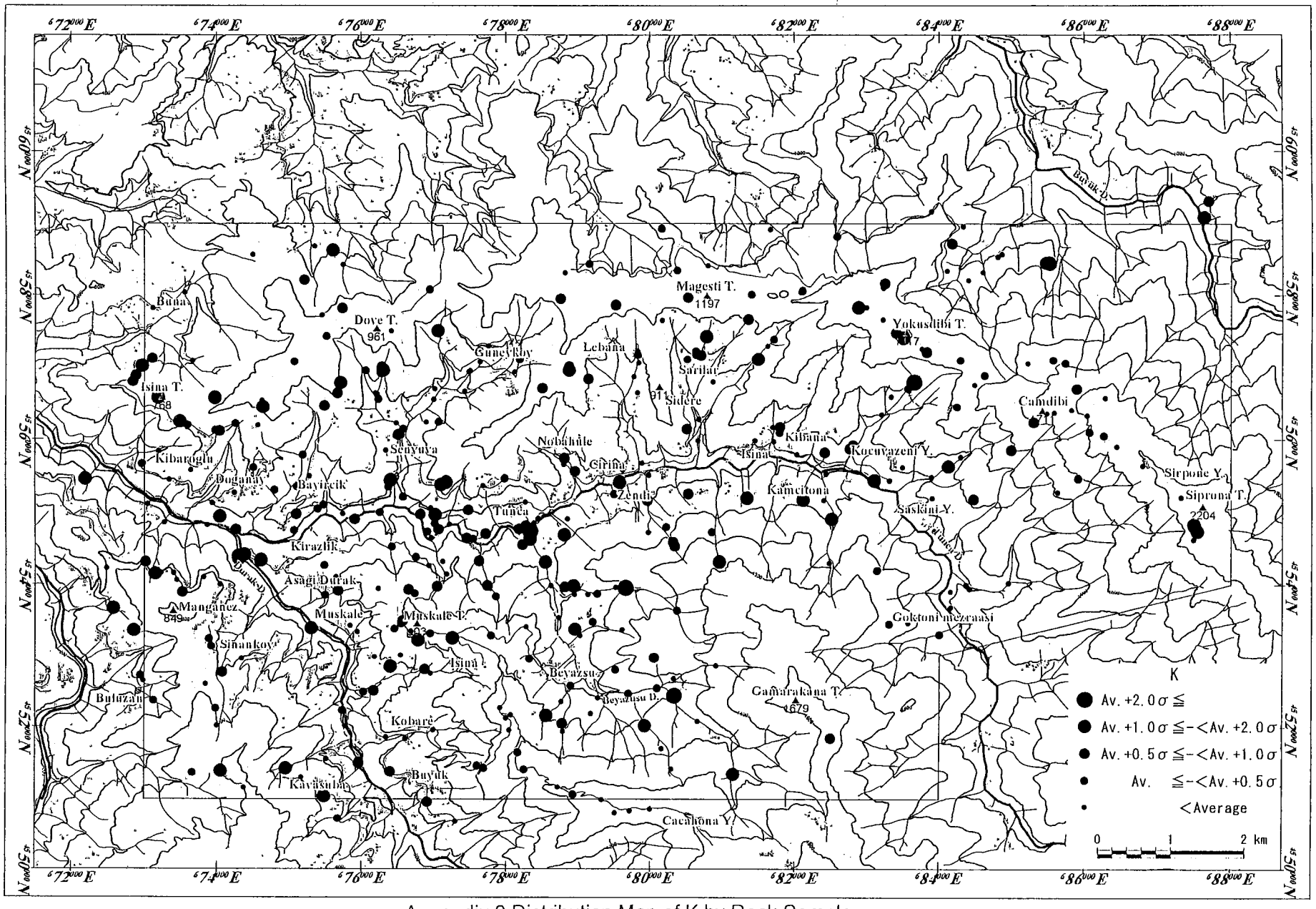
Appendix 9 Distribution Map of Fe by Rock Samples



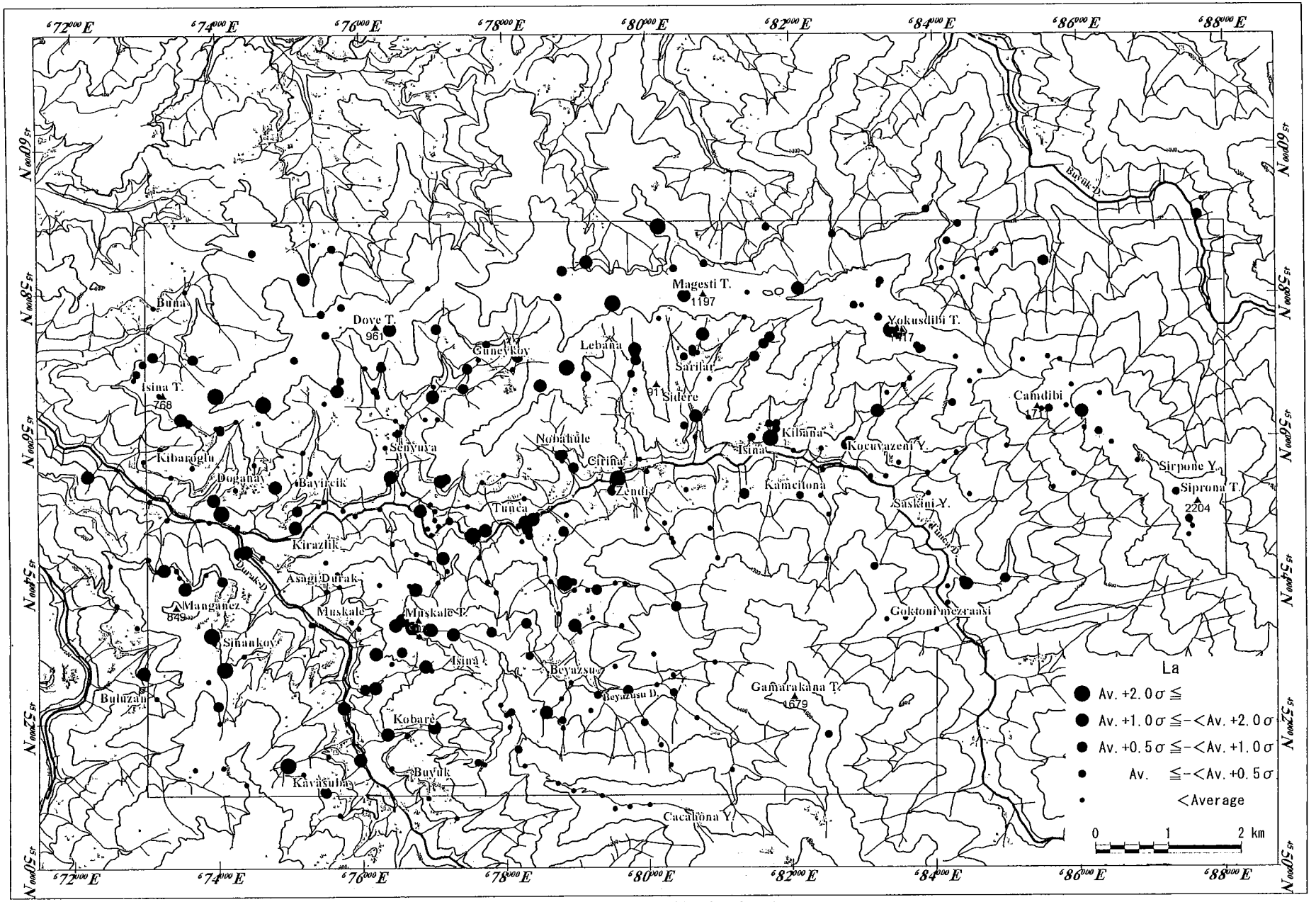
Appendix 9 Distribution Map of Ga by Rock Samples



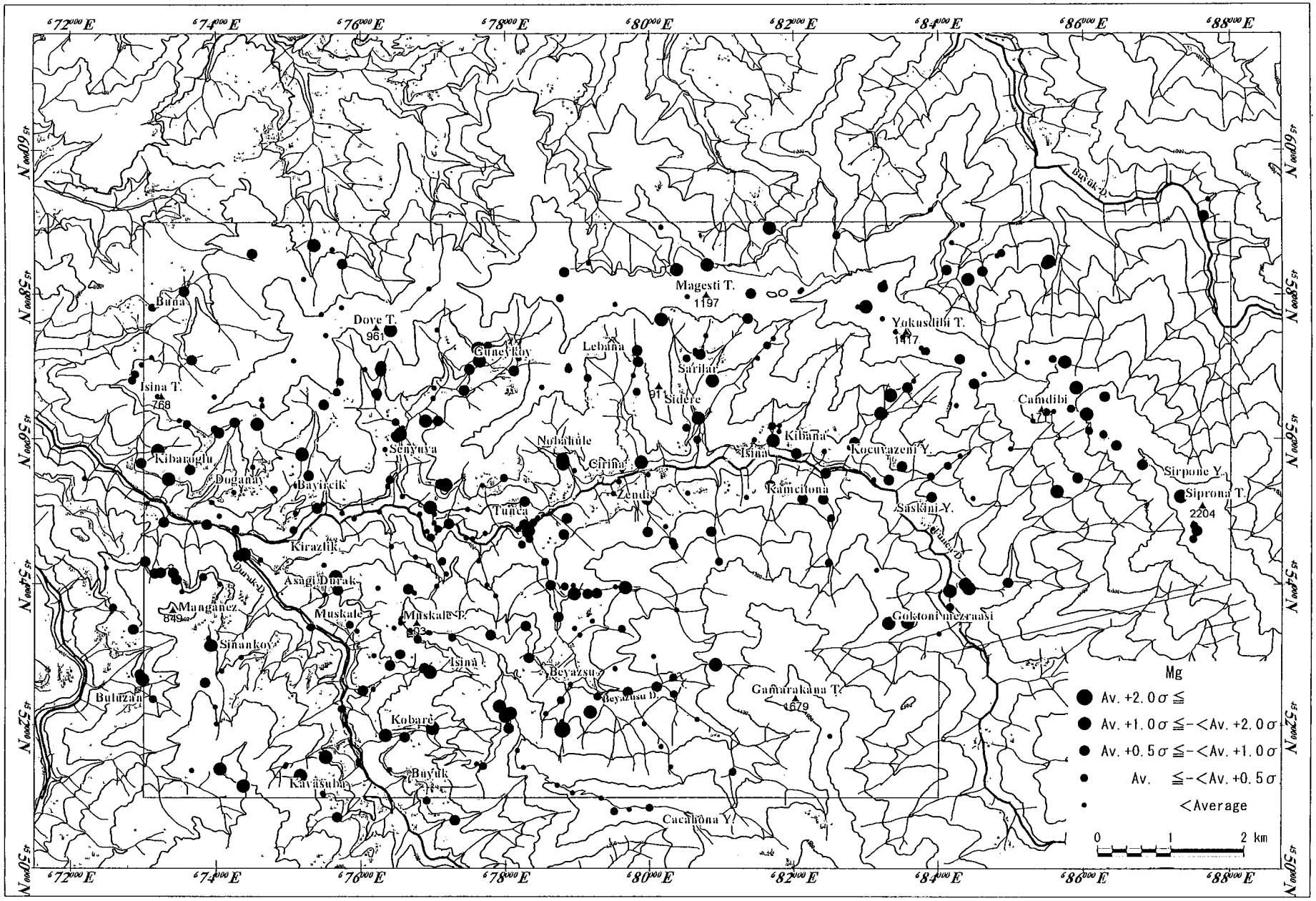
Appendix 9 Distribution Map of Hg by Rock Samples



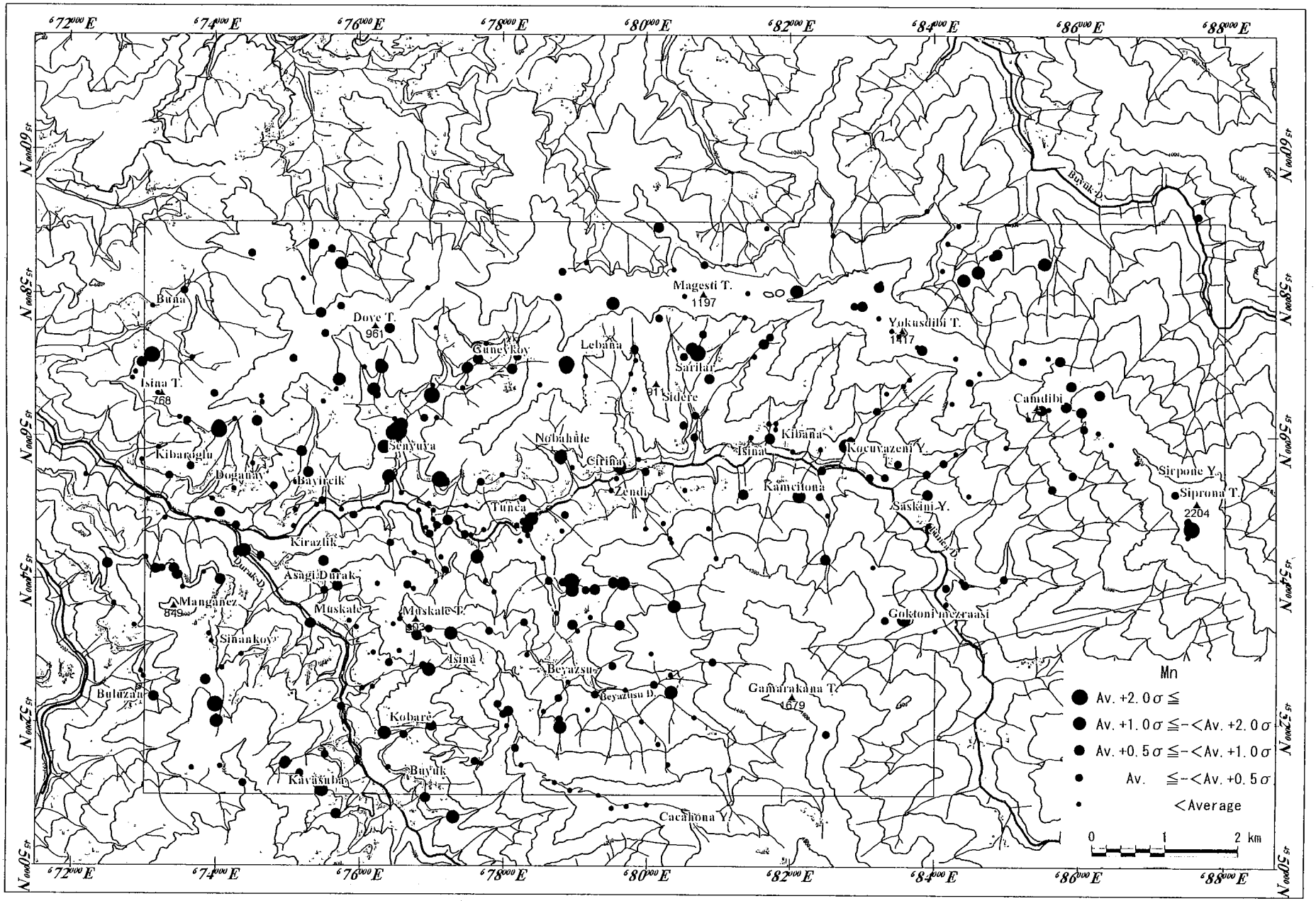
Appendix 9 Distribution Map of K by Rock Samples



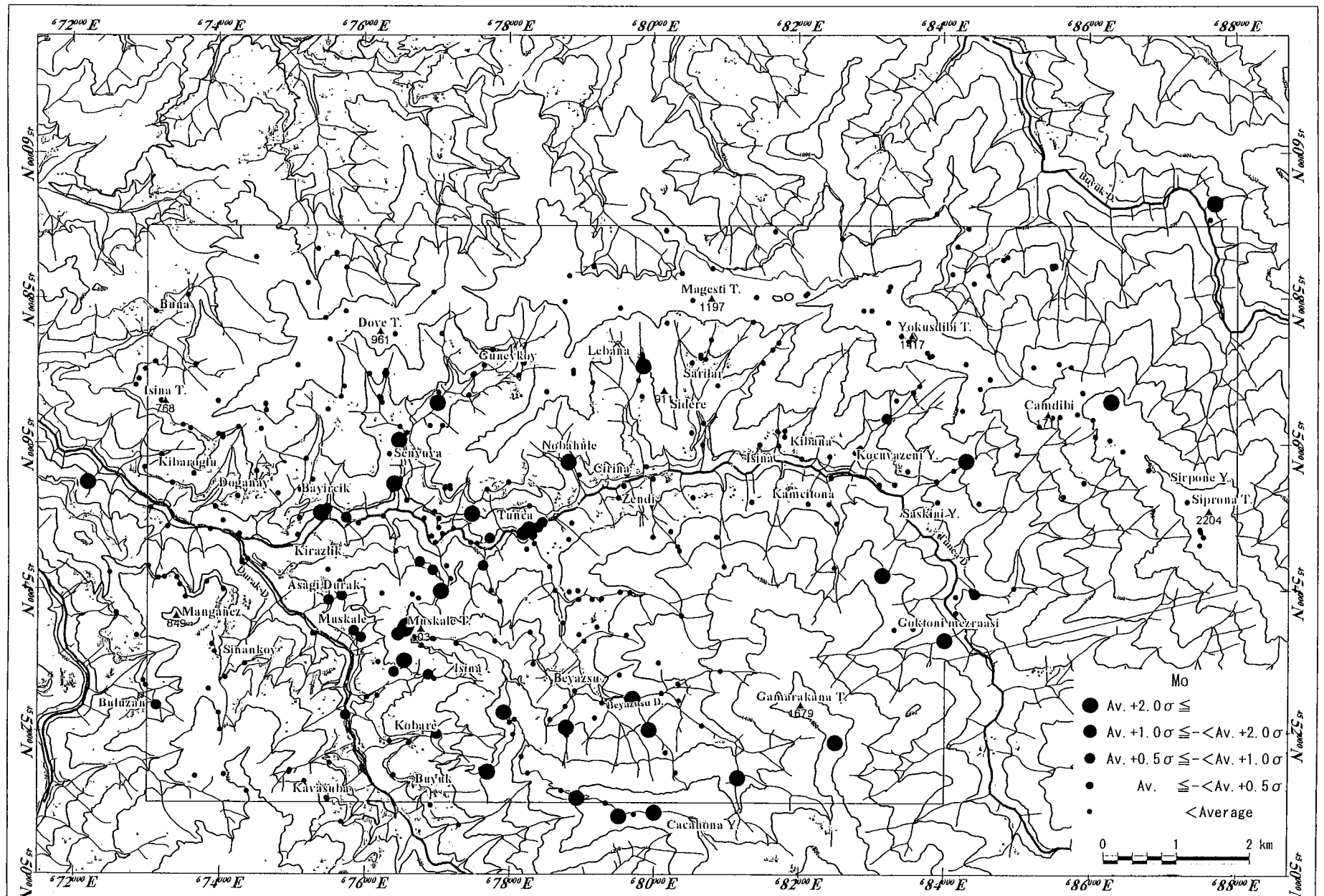
Appendix 9 Distribution Map of La by Rock Samples



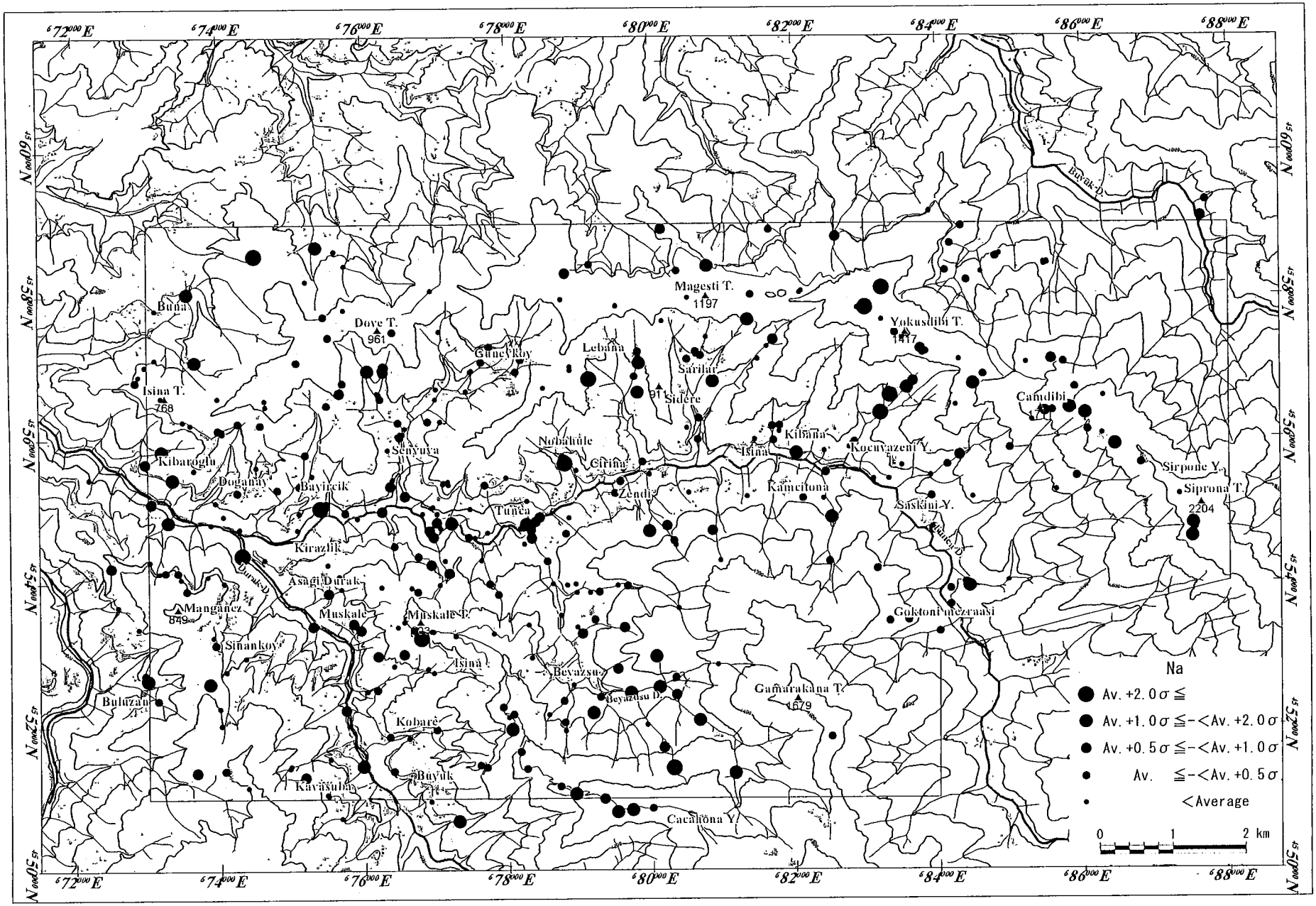
Appendix 9 Distribution Map of Mg by Rock Samples



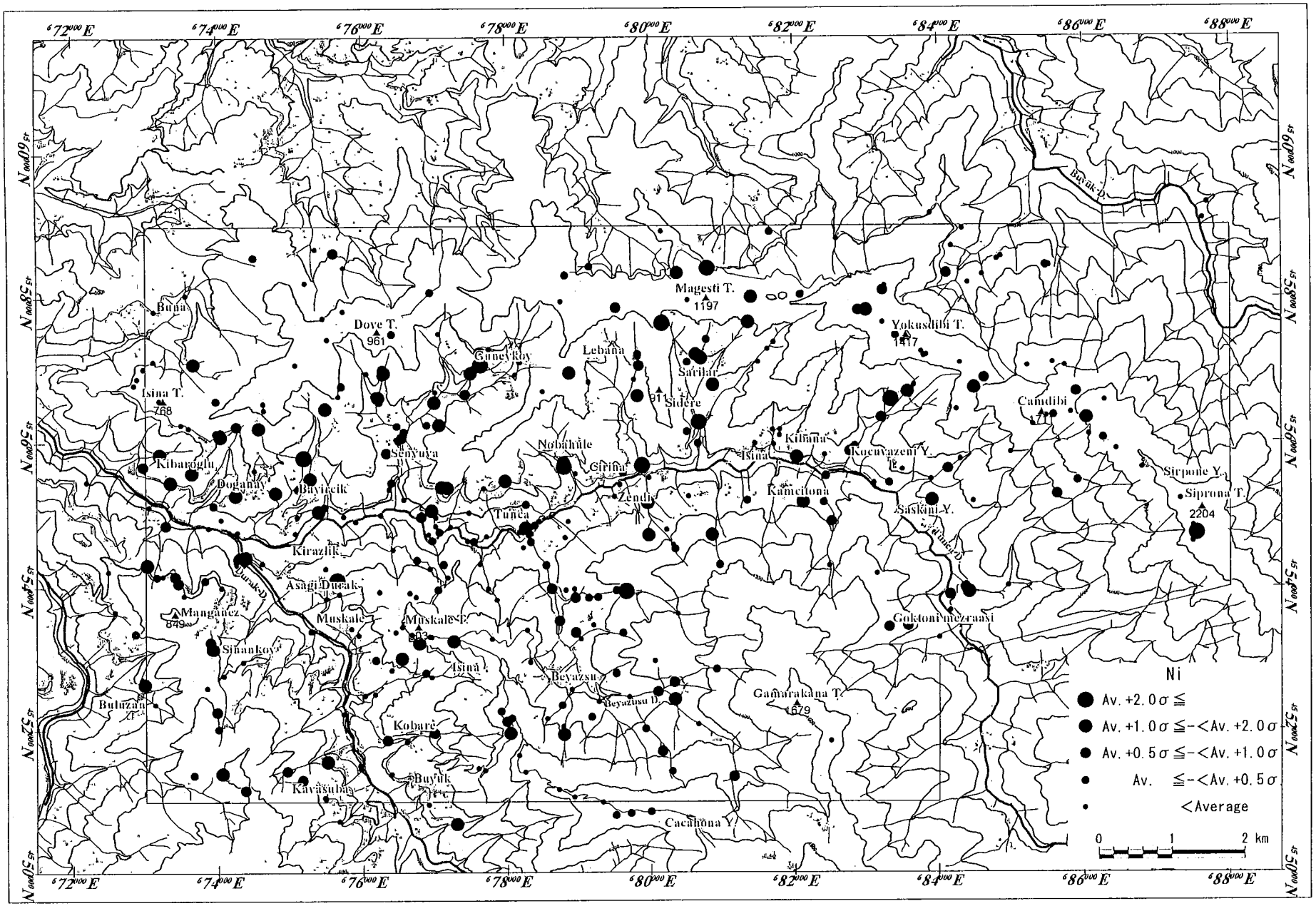
Appendix 9 Distribution Map of Mn by Rock Samples



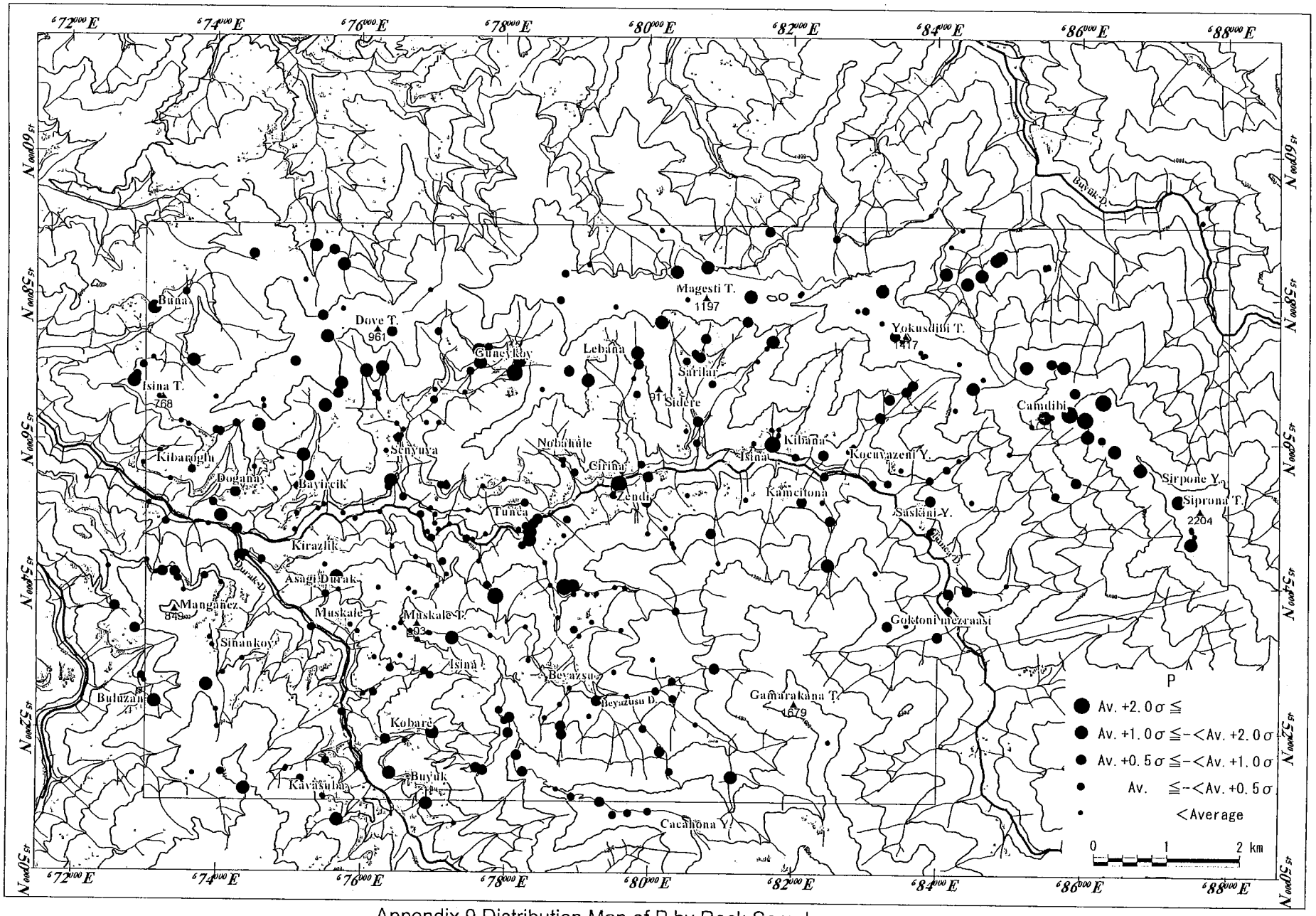
Appendix 9 Distribution Map of Mo by Rock Samples



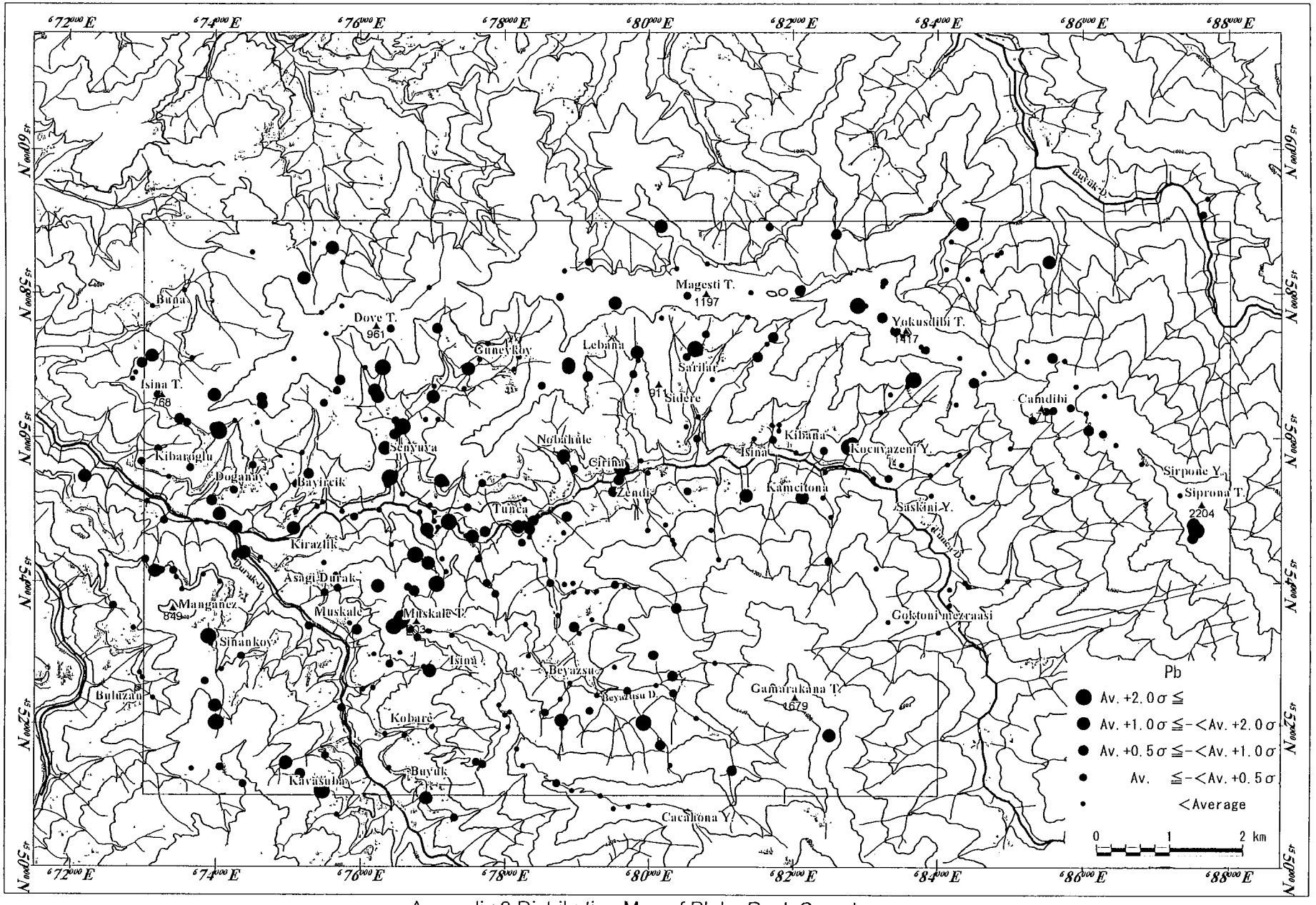
Appendix 9 Distribution Map of Na by Rock Samples



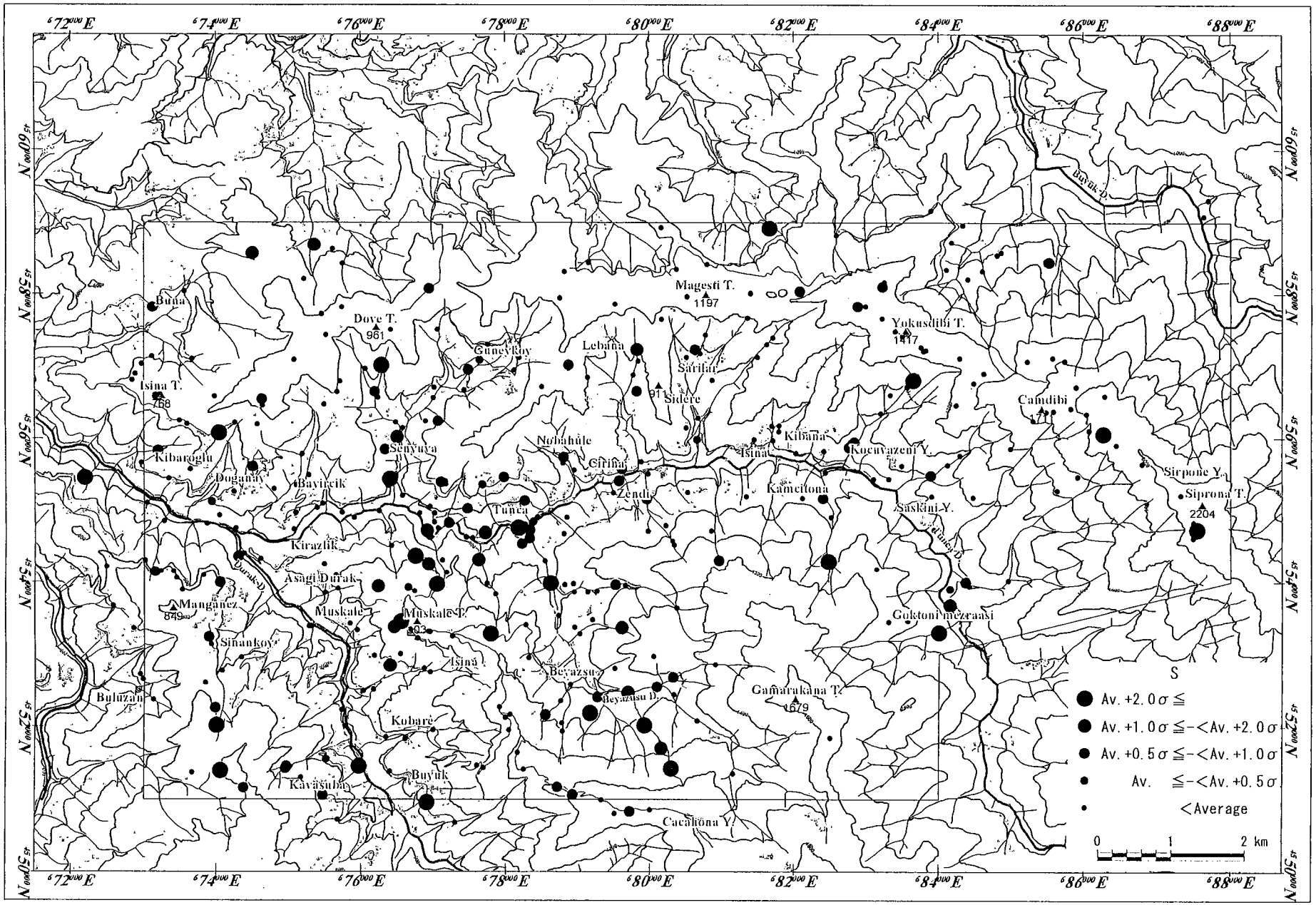
Appendix 9 Distribution Map of Ni by Rock Samples



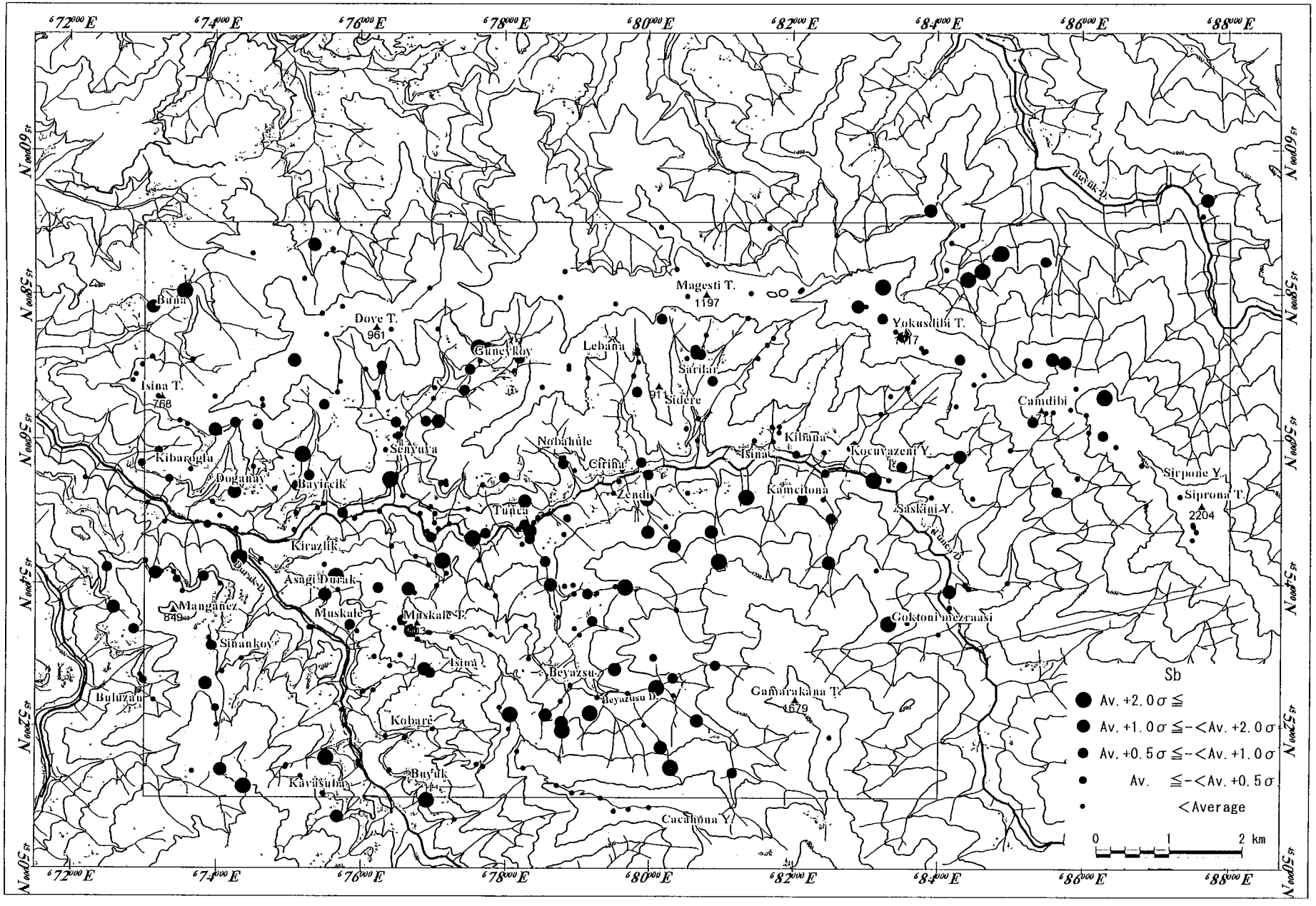
Appendix 9 Distribution Map of P by Rock Samples



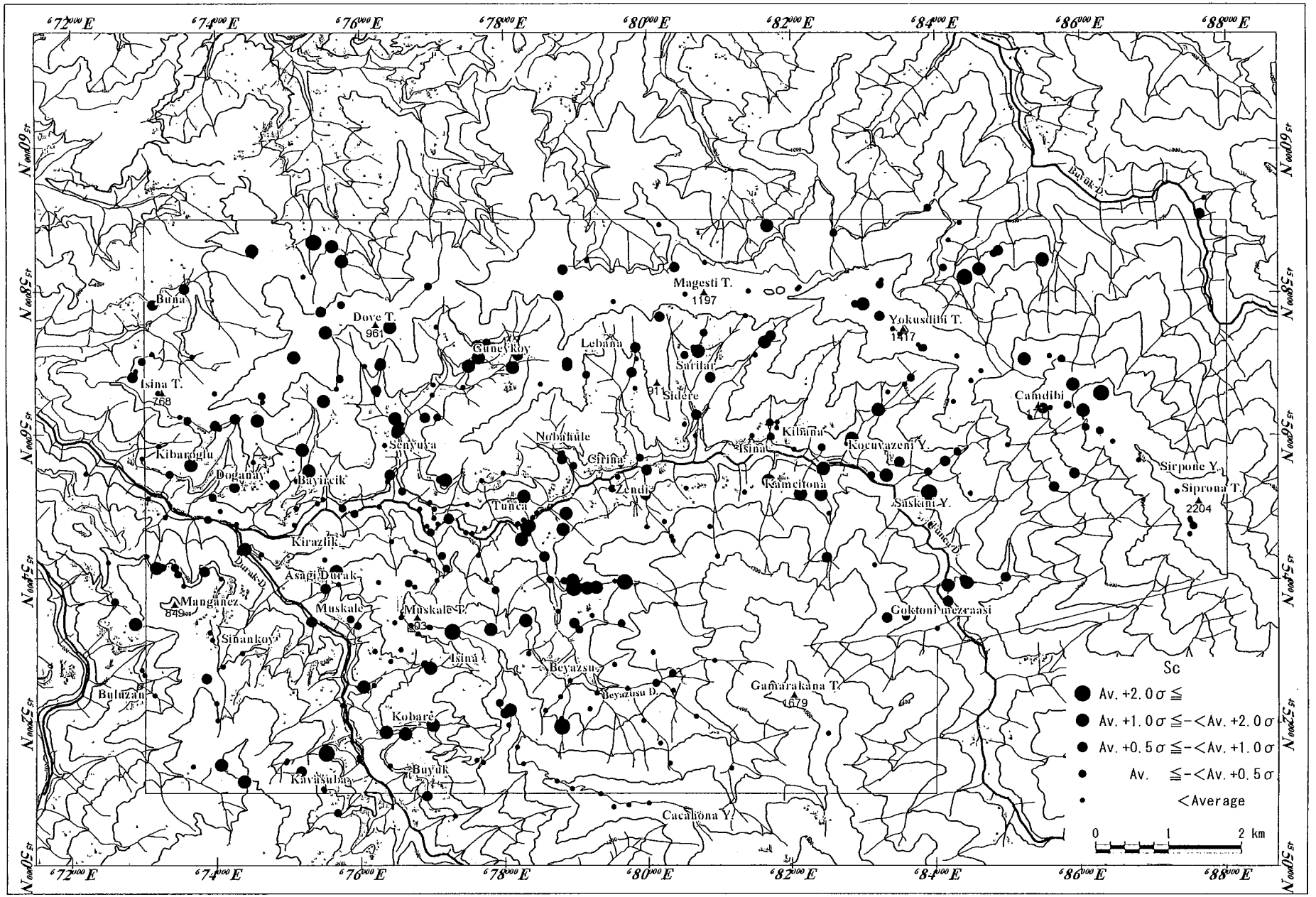
Appendix 9 Distribution Map of Pb by Rock Samples



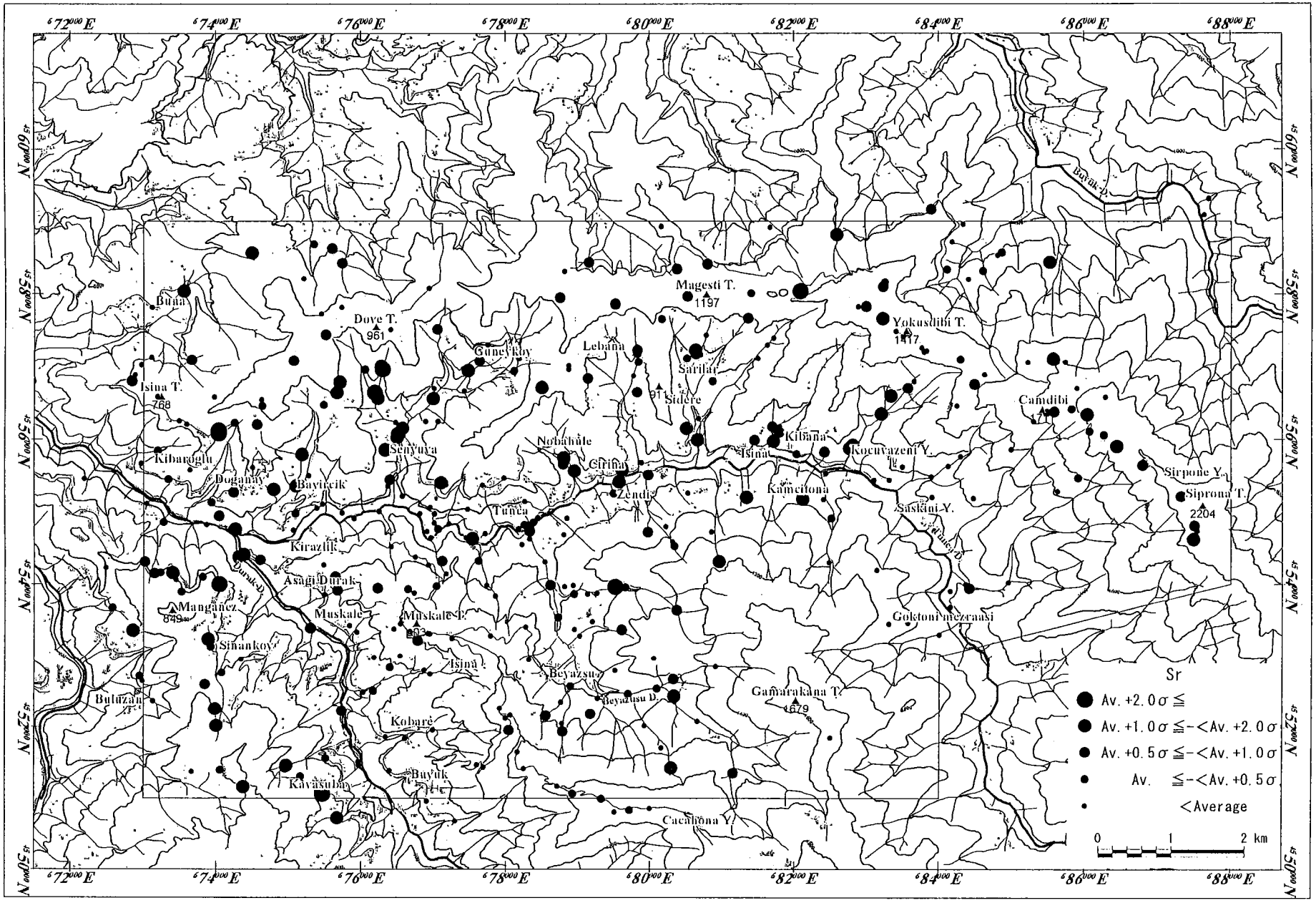
Appendix 9 Distribution Map of S by Rock Samples



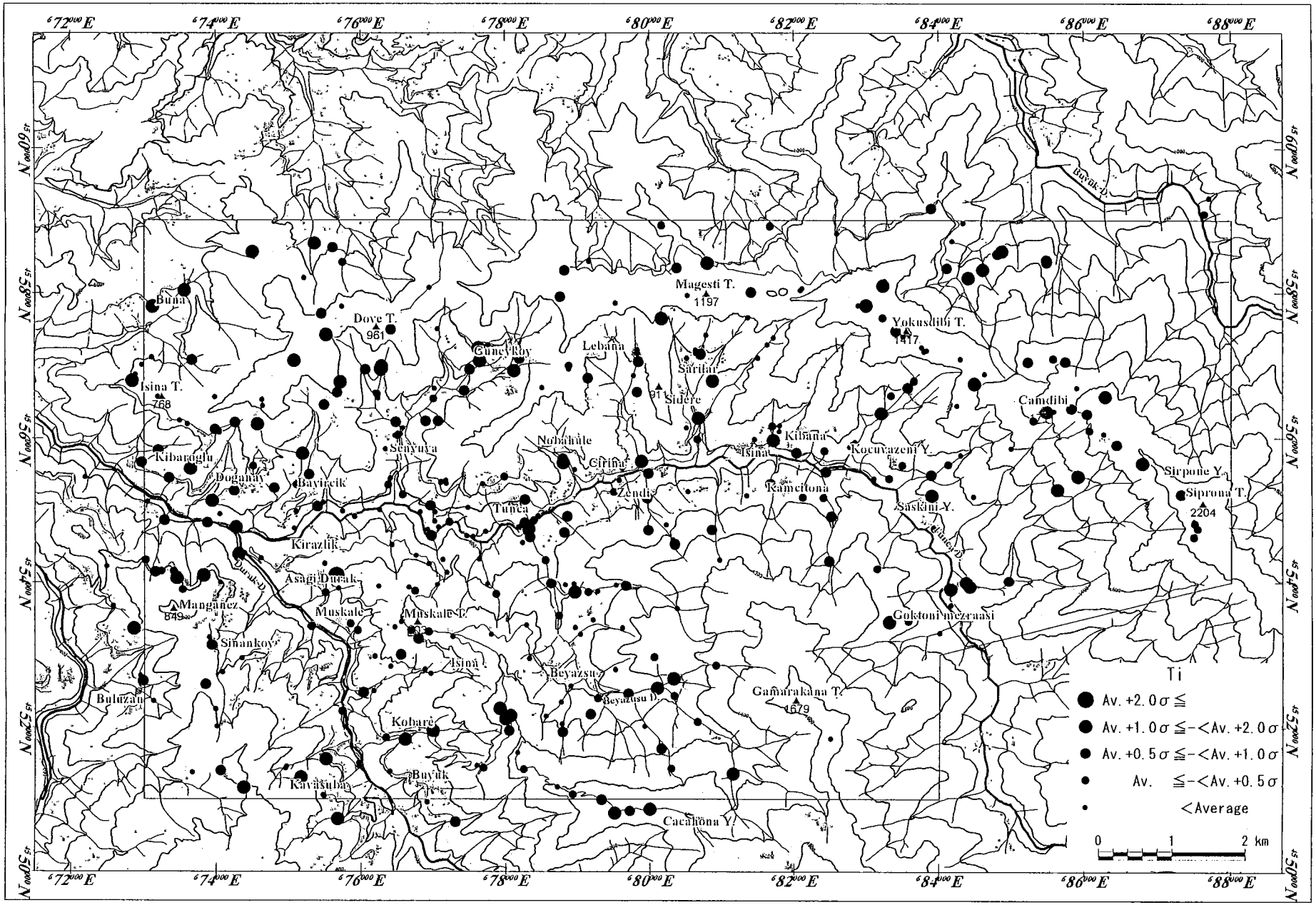
Appendix 9 Distribution Map of Sb by Rock Samples



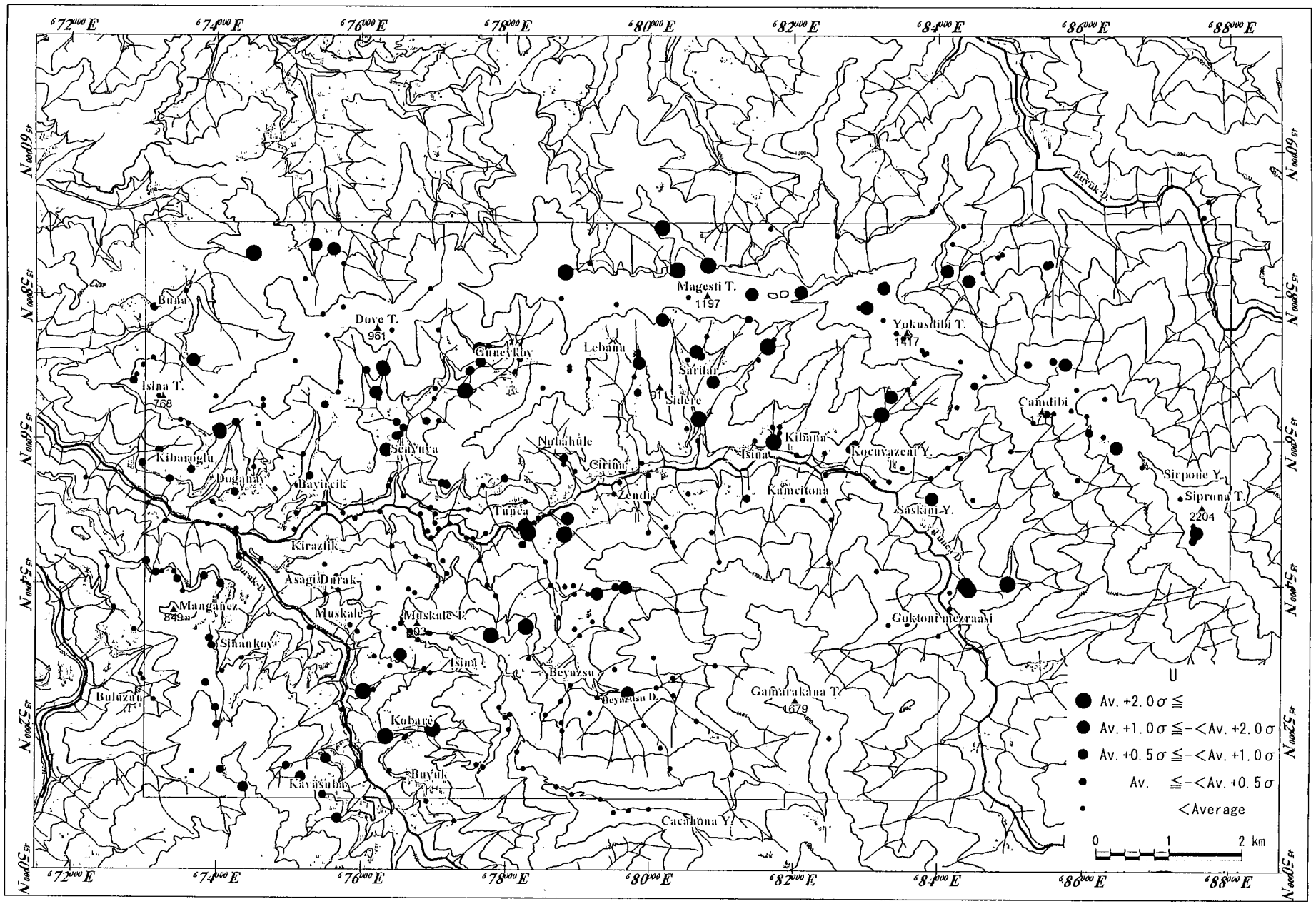
Appendix 9 Distribution Map of Sc by Rock Samples



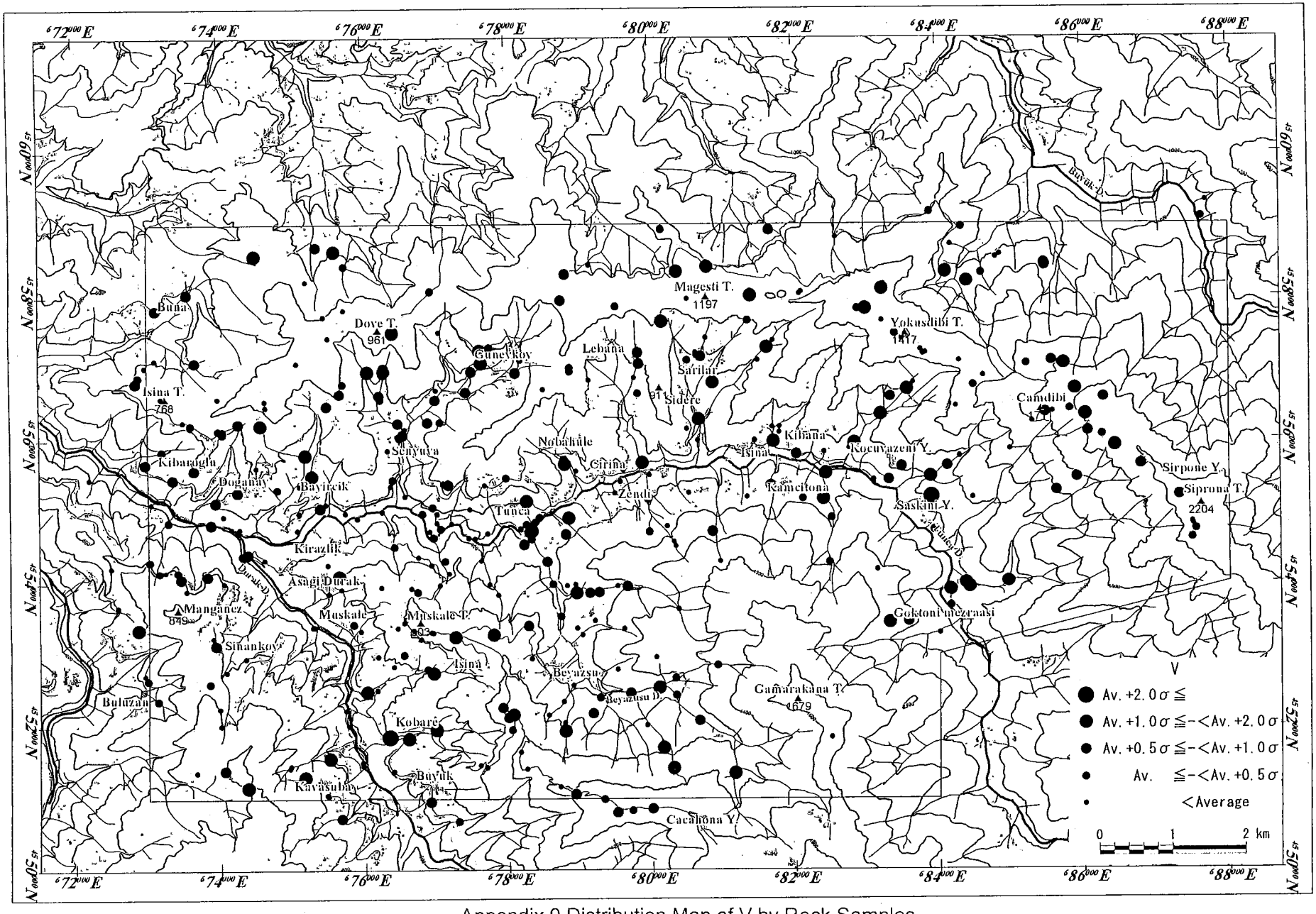
Appendix 9 Distribution Map of Sr by Rock Samples



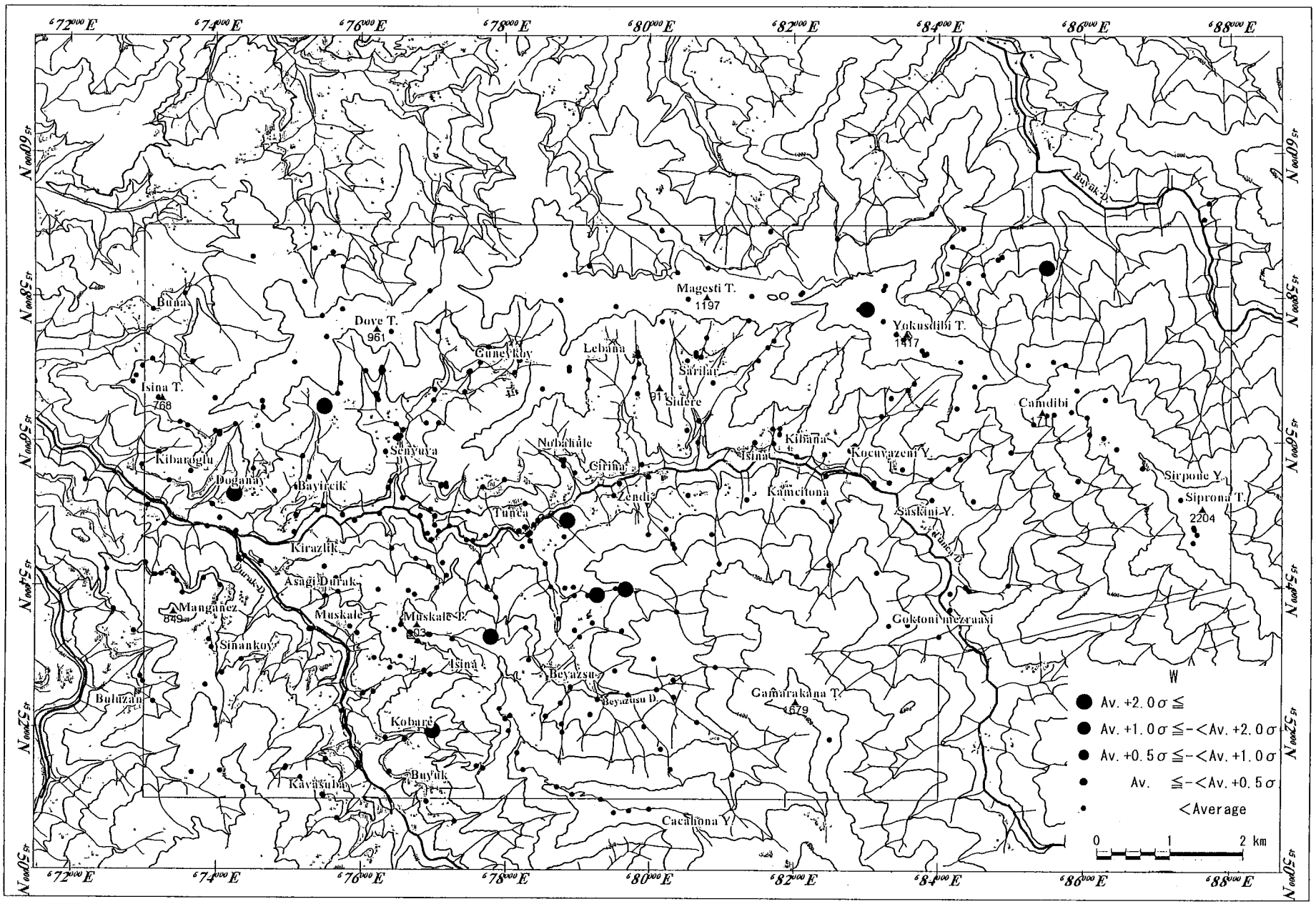
Appendix 9 Distribution Map of Ti by Rock Samples



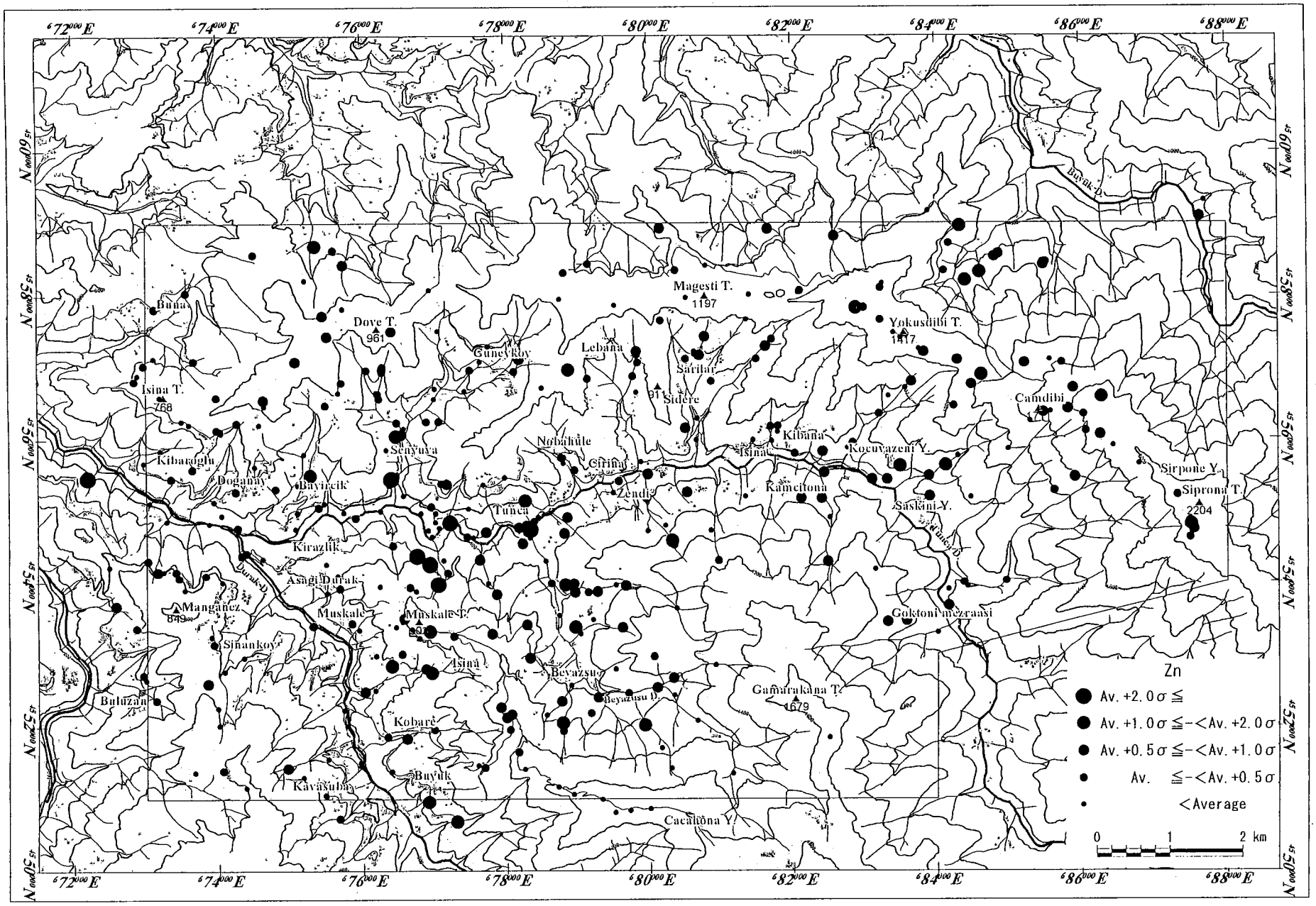
Appendix 9 Distribution Map of U by Rock Samples



Appendix 9 Distribution Map of V by Rock Samples



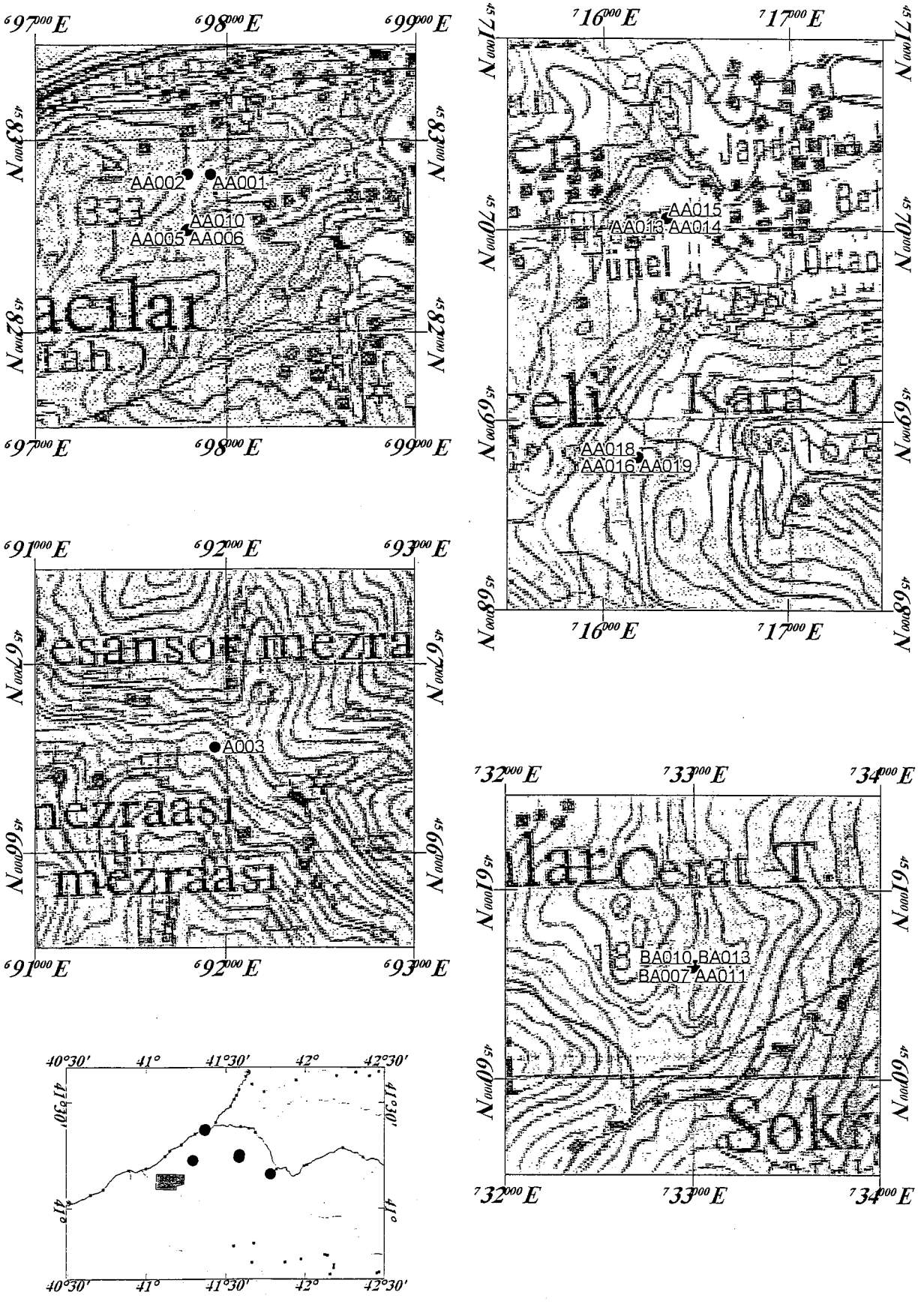
Appendix 9 Distribution Map of W by Rock Samples



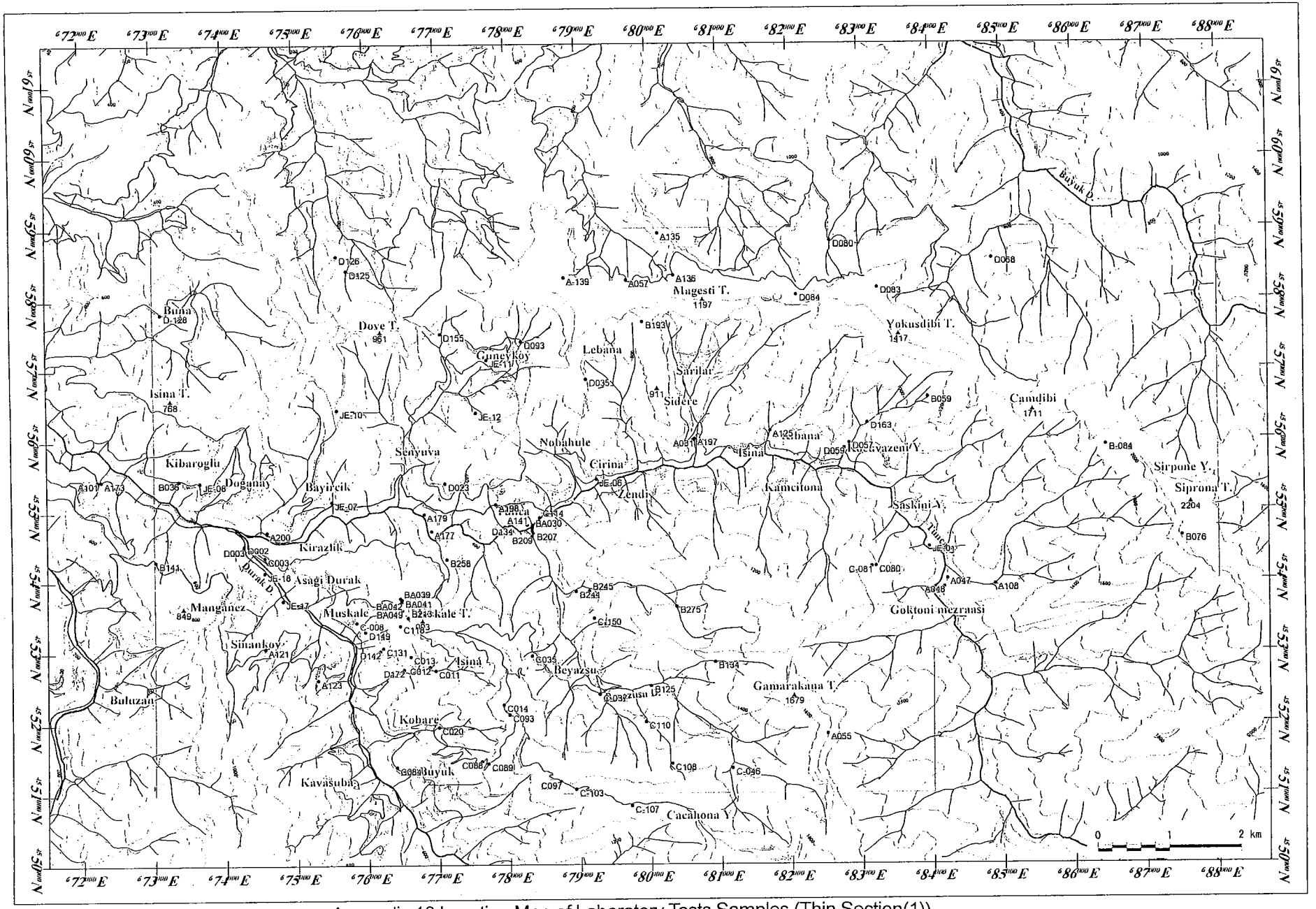
Appendix 9 Distribution Map of Zn by Rock Samples

Appendix 10

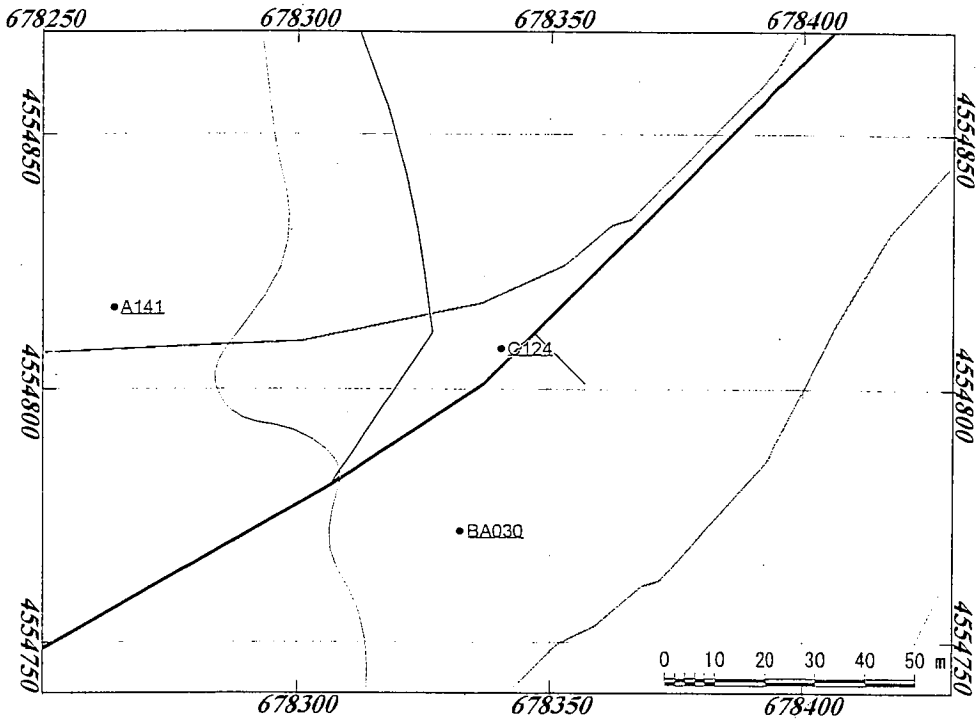
Location Map of Laboratory Tests Samples

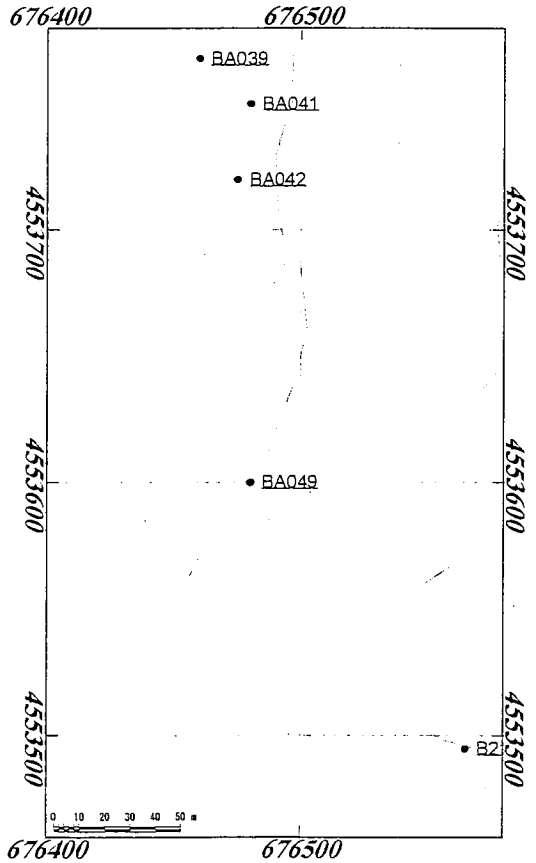


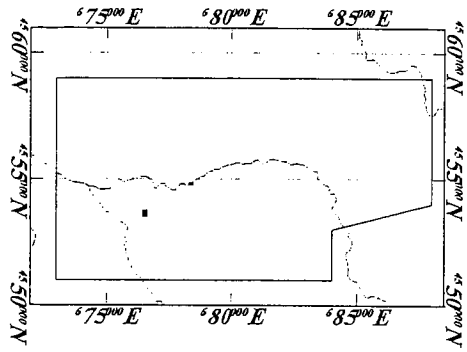
Appendix 10 Location Map of Laboratory Tests Samples (Outside of the Tunca Area)



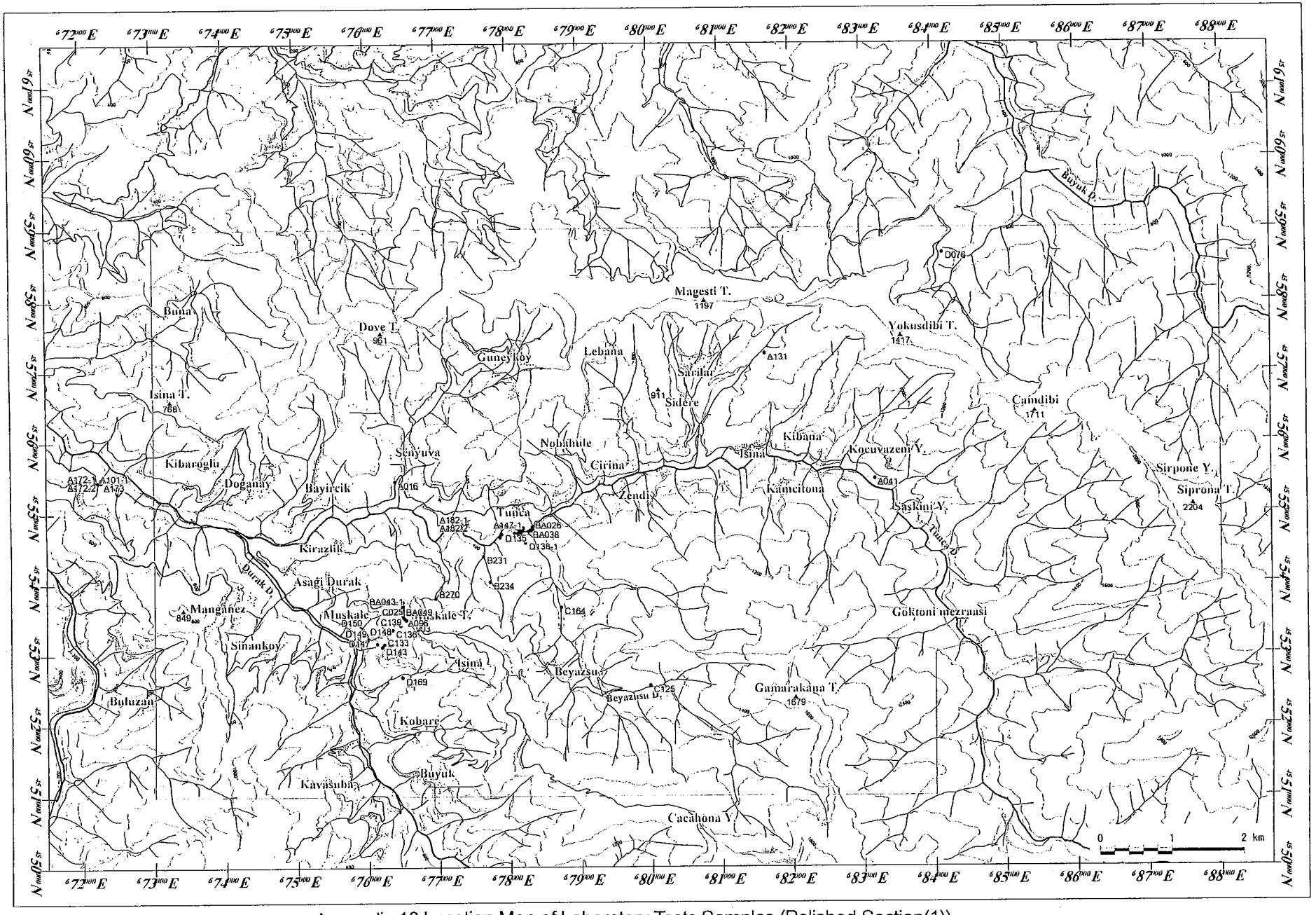
Appendix 10 Location Map of Laboratory Tests Samples (Thin Section(1))



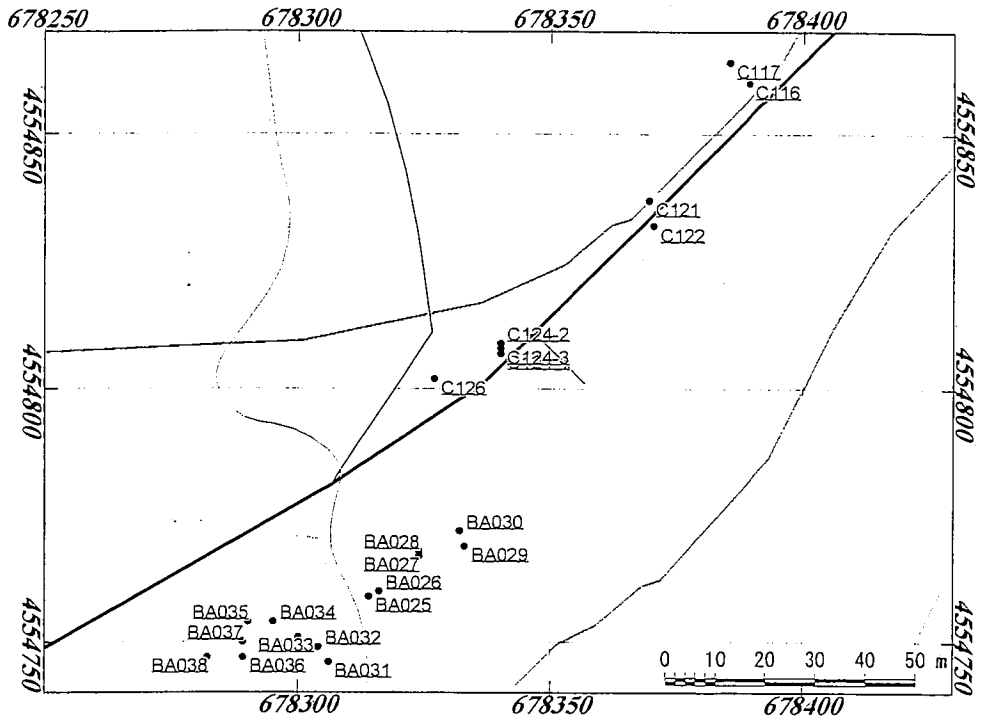


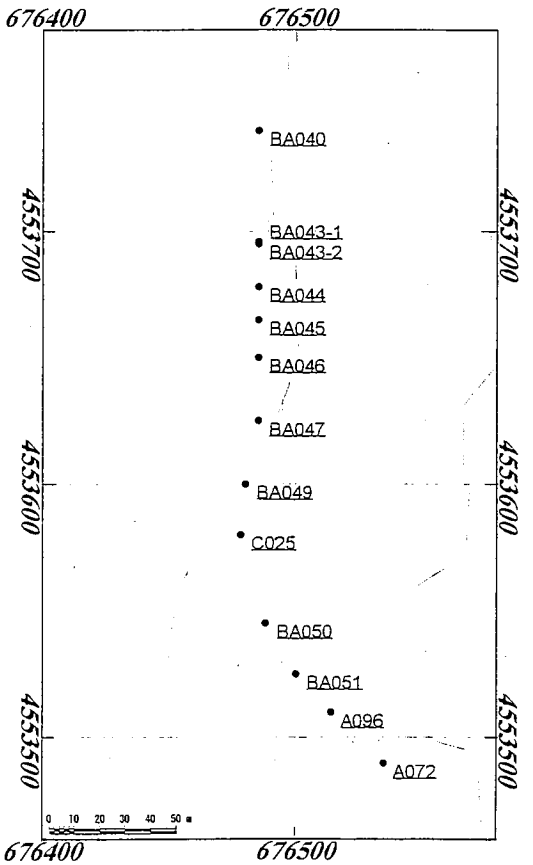


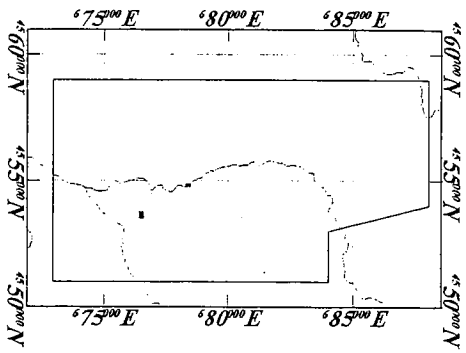
Appendix 10 Location Map of Laboratory Tests Samples (Thin Section(2))



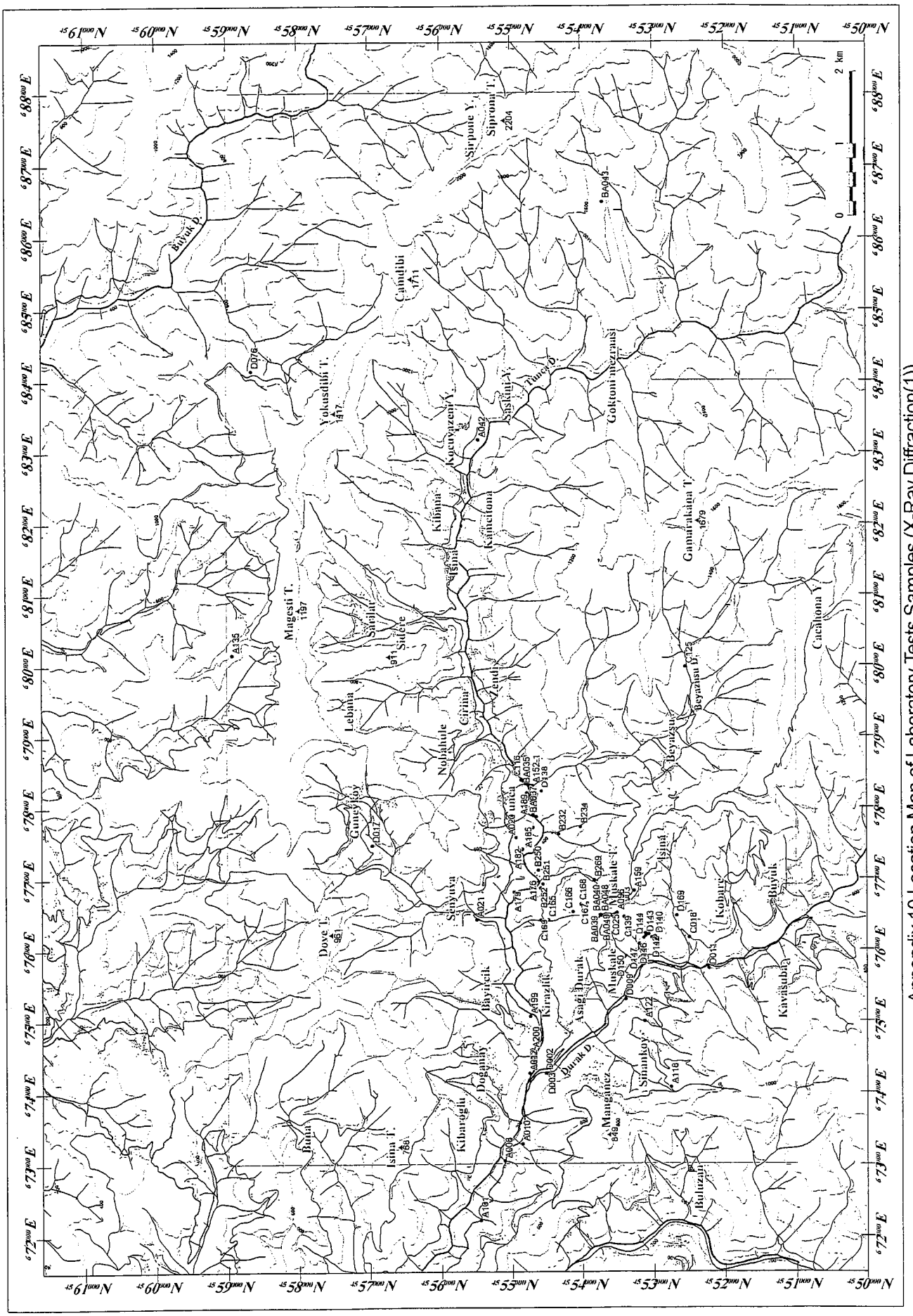
Appendix 10 Location Map of Laboratory Tests Samples (Polished Section(1))



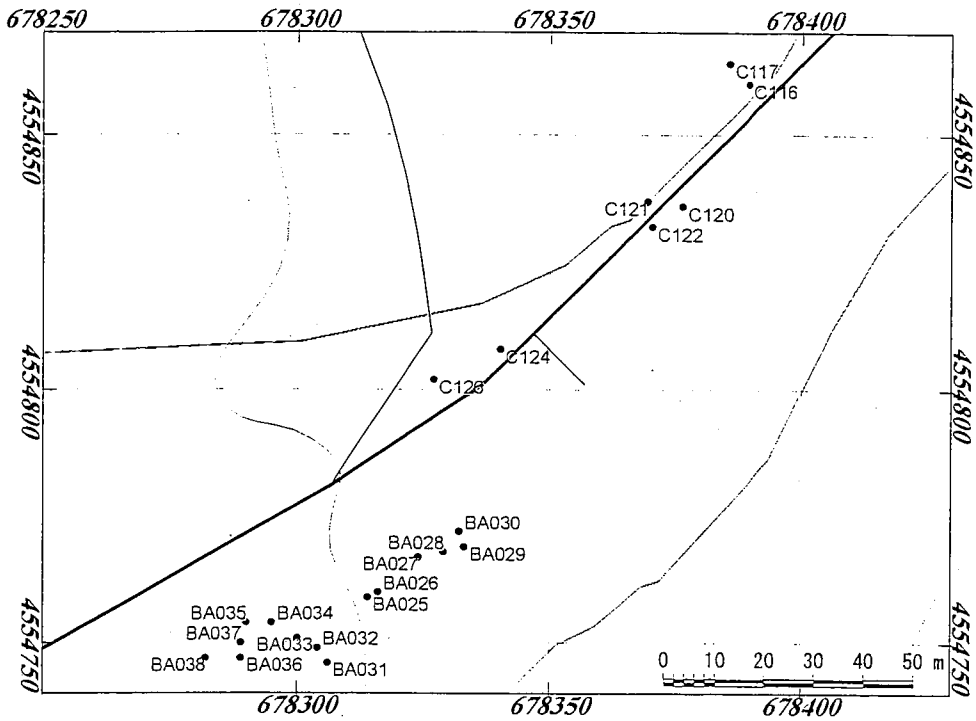


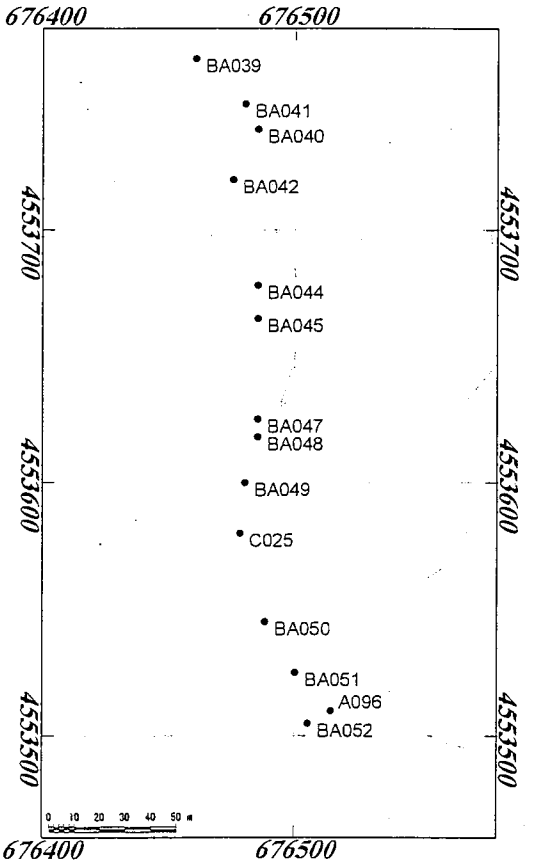


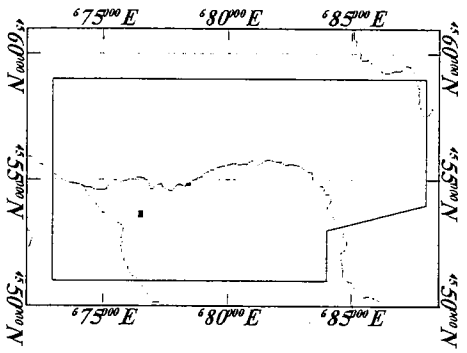
Appendix 10 Location Map of Laboratory Tests Samples (Polished Section(2))



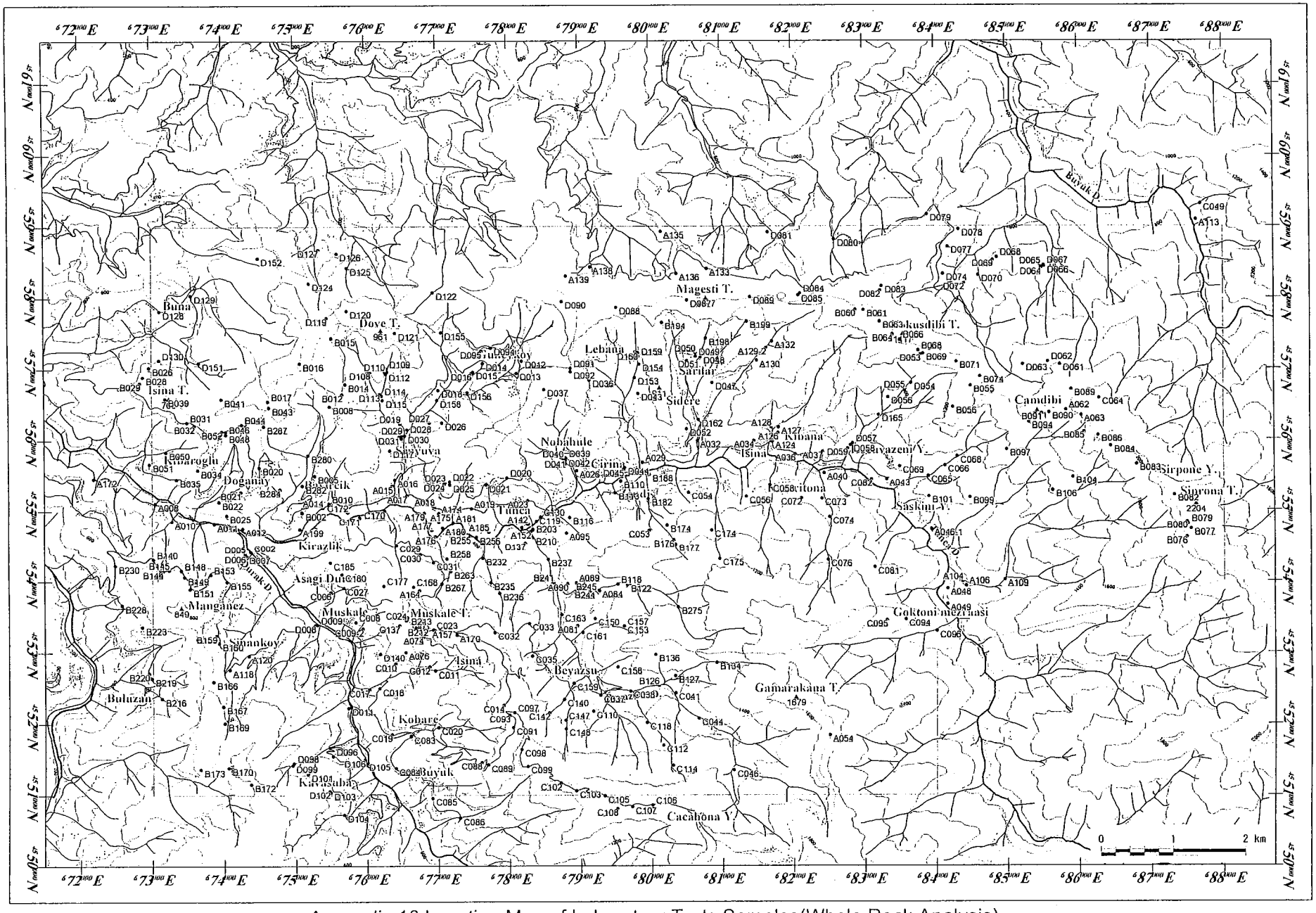
Appendix 10 Location Map of Laboratory Tests Samples (X-Ray Diffraction(1))



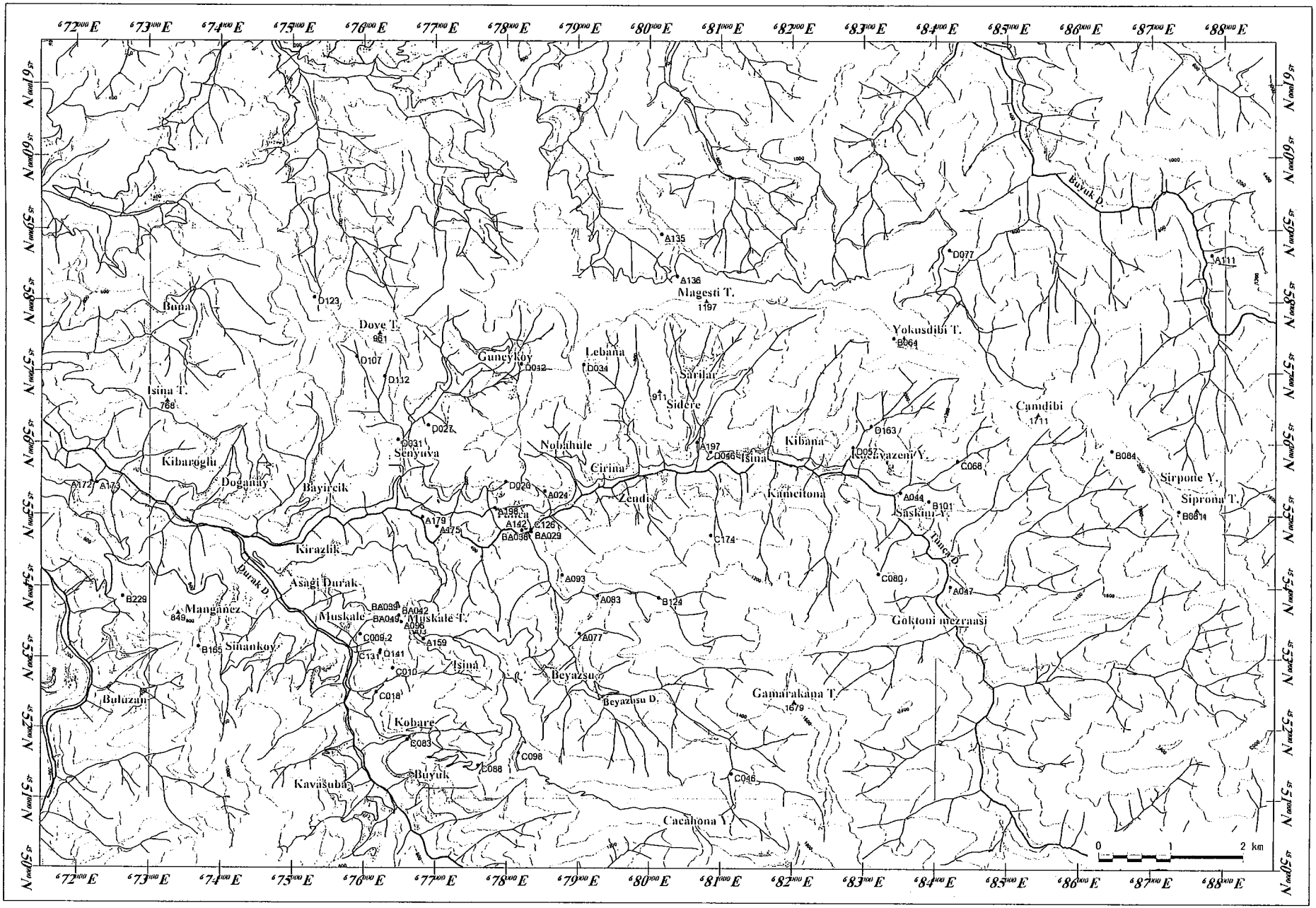




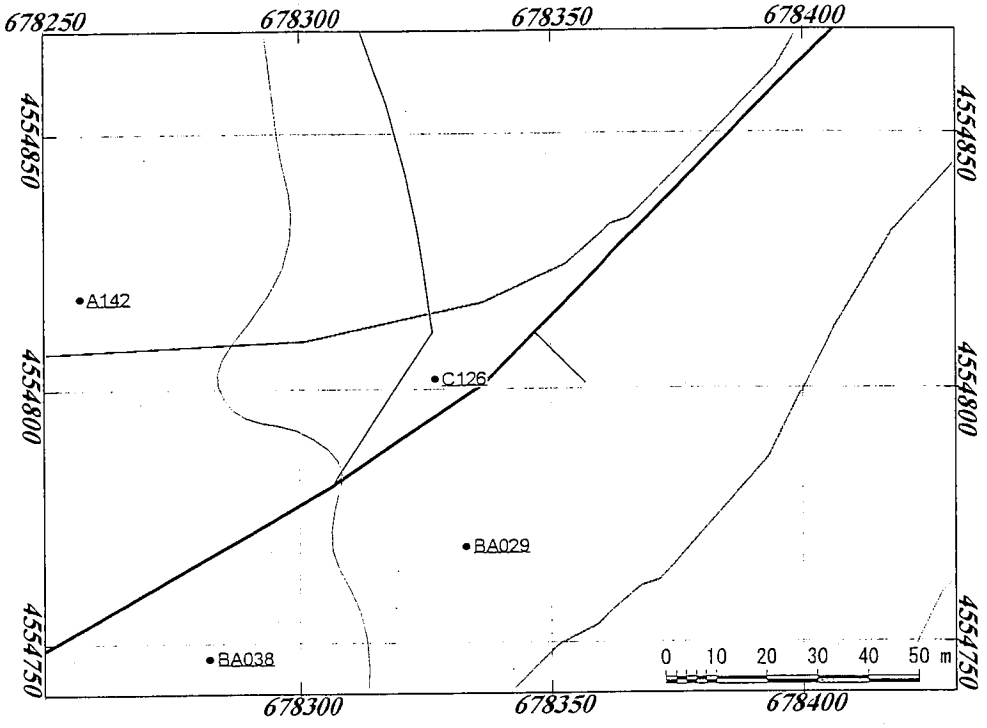
Appendix 10 Location Map of Laboratory Tests Samples (X-Ray Diffraction(2))

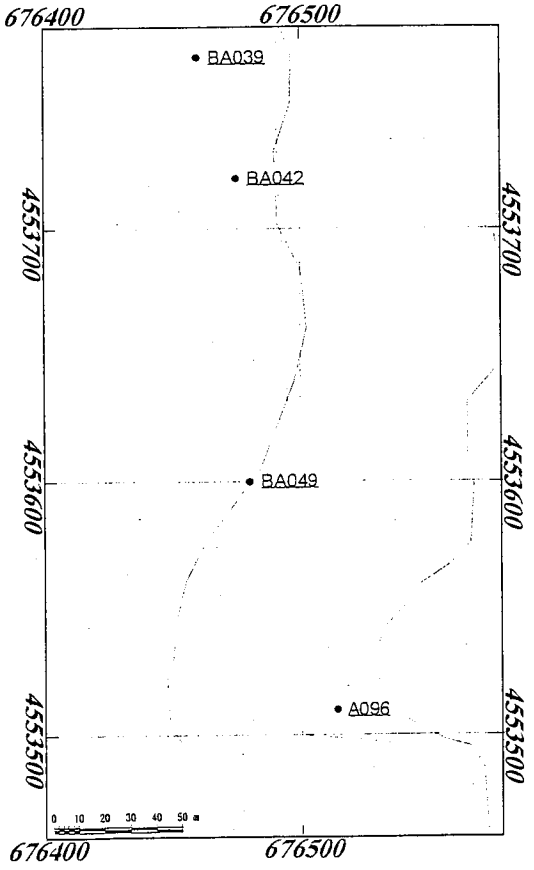


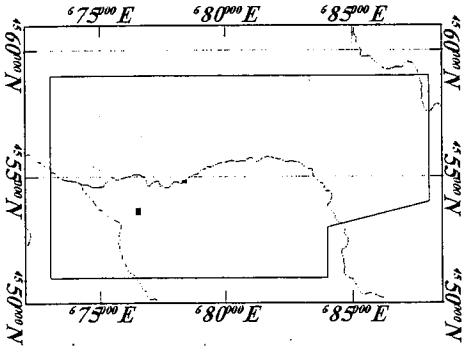
Appendix 10 Location Map of Laboratory Tests Samples(Whole Rock Analysis)



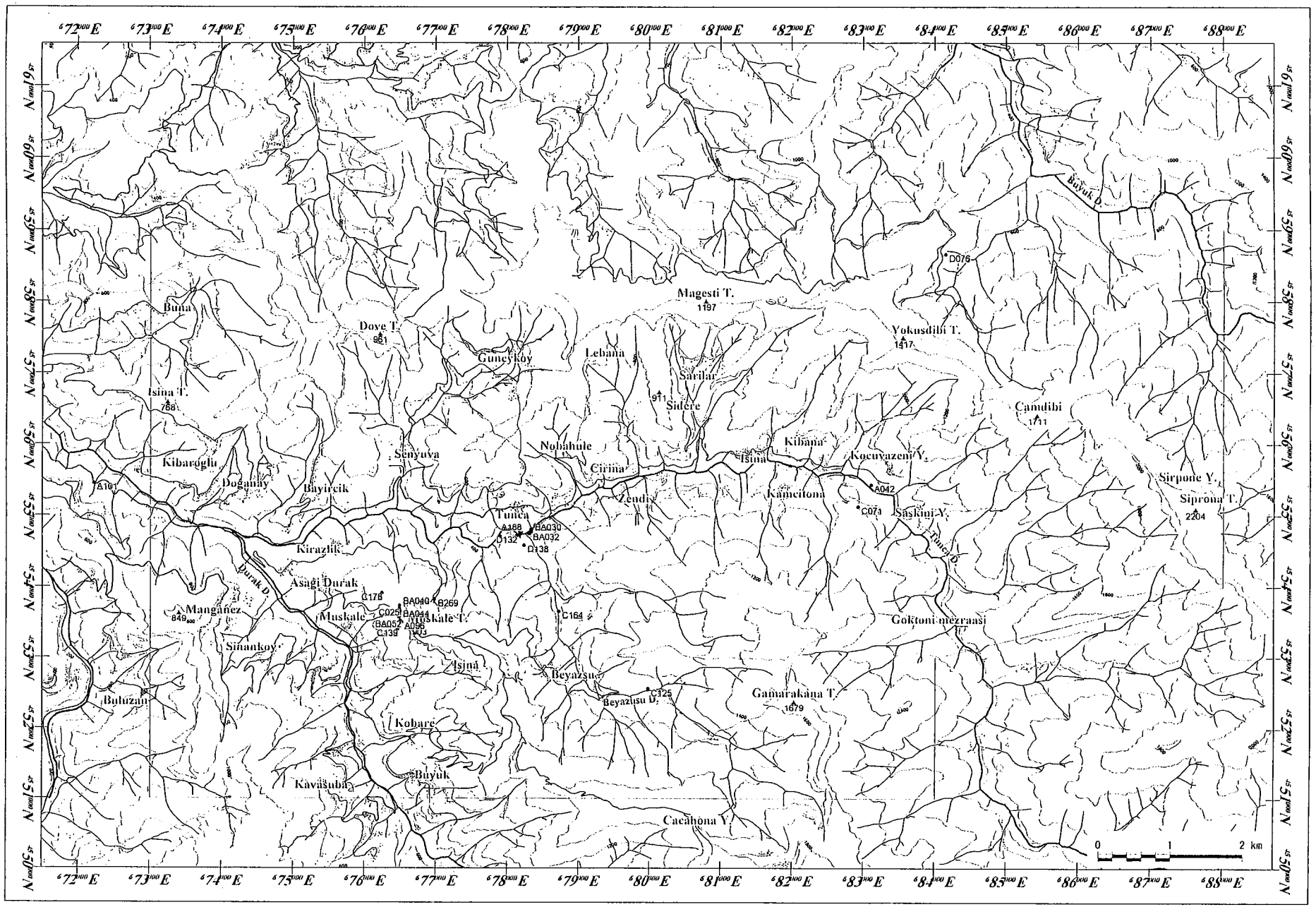
Appendix 10 Location Map of Laboratory Tests Samples(Rock Chemical Analysis(1))



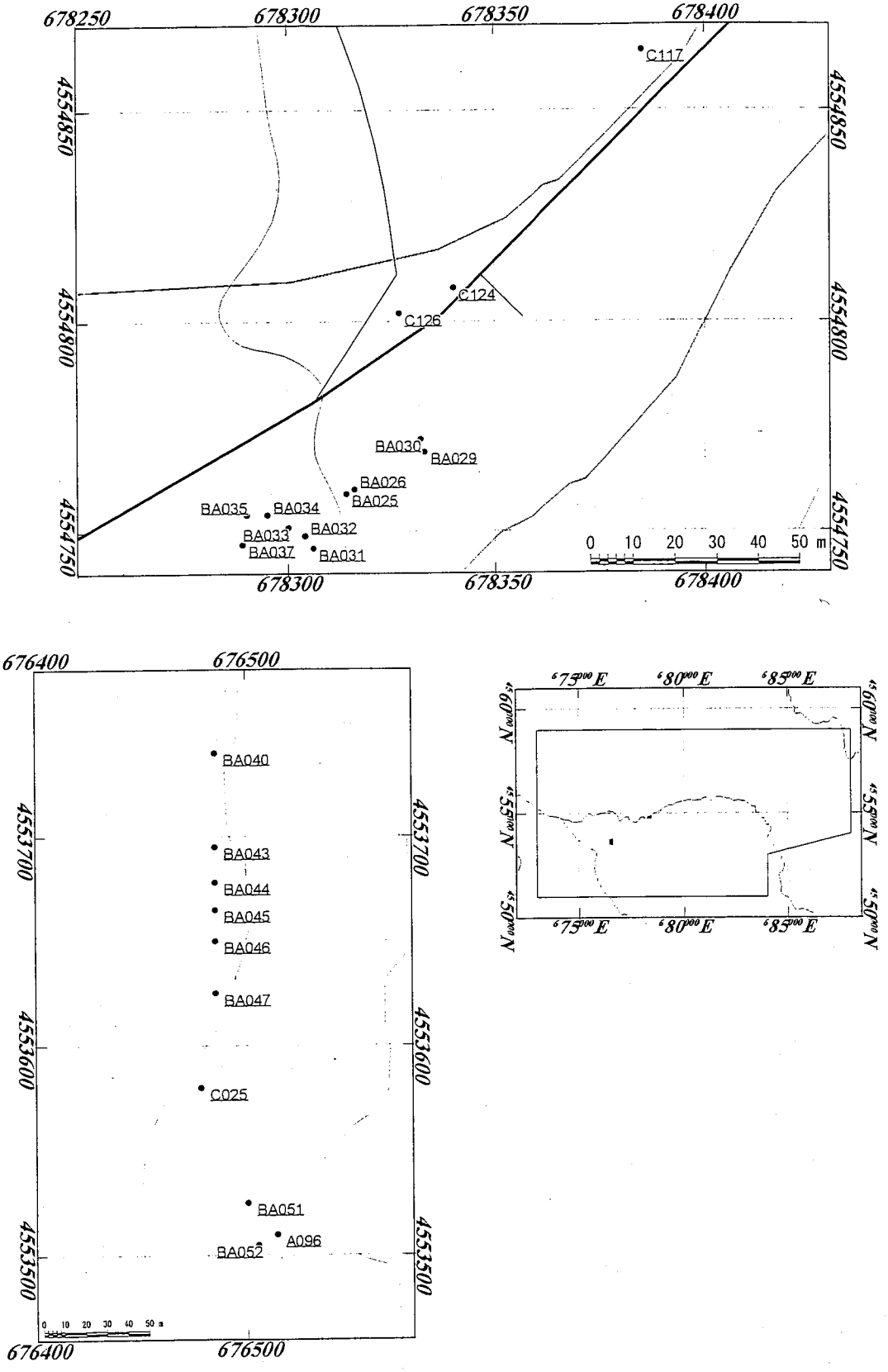




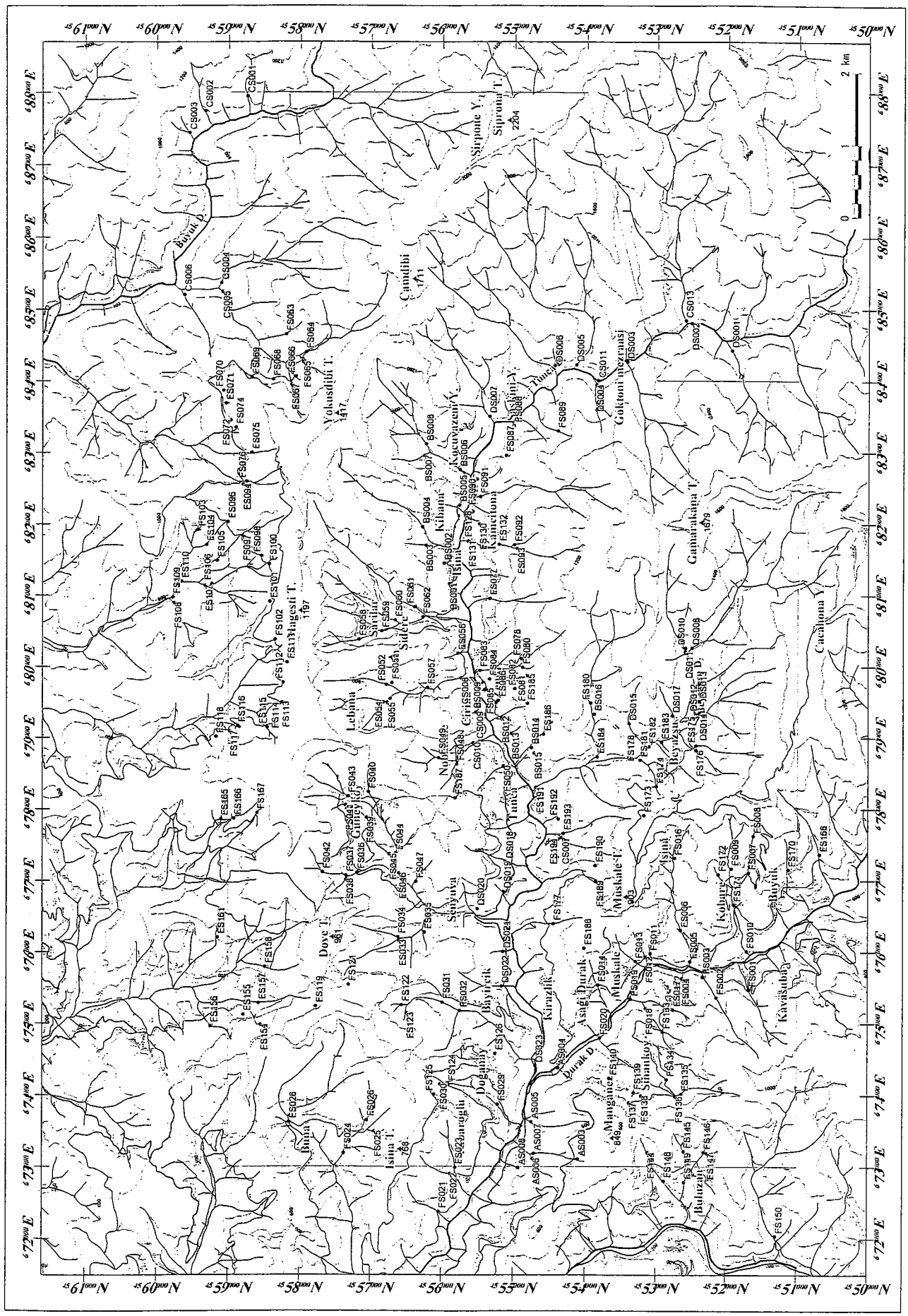
Appendix 10 Location Map of Laboratory Tests Samples(Rock Chemical Analysis(2))



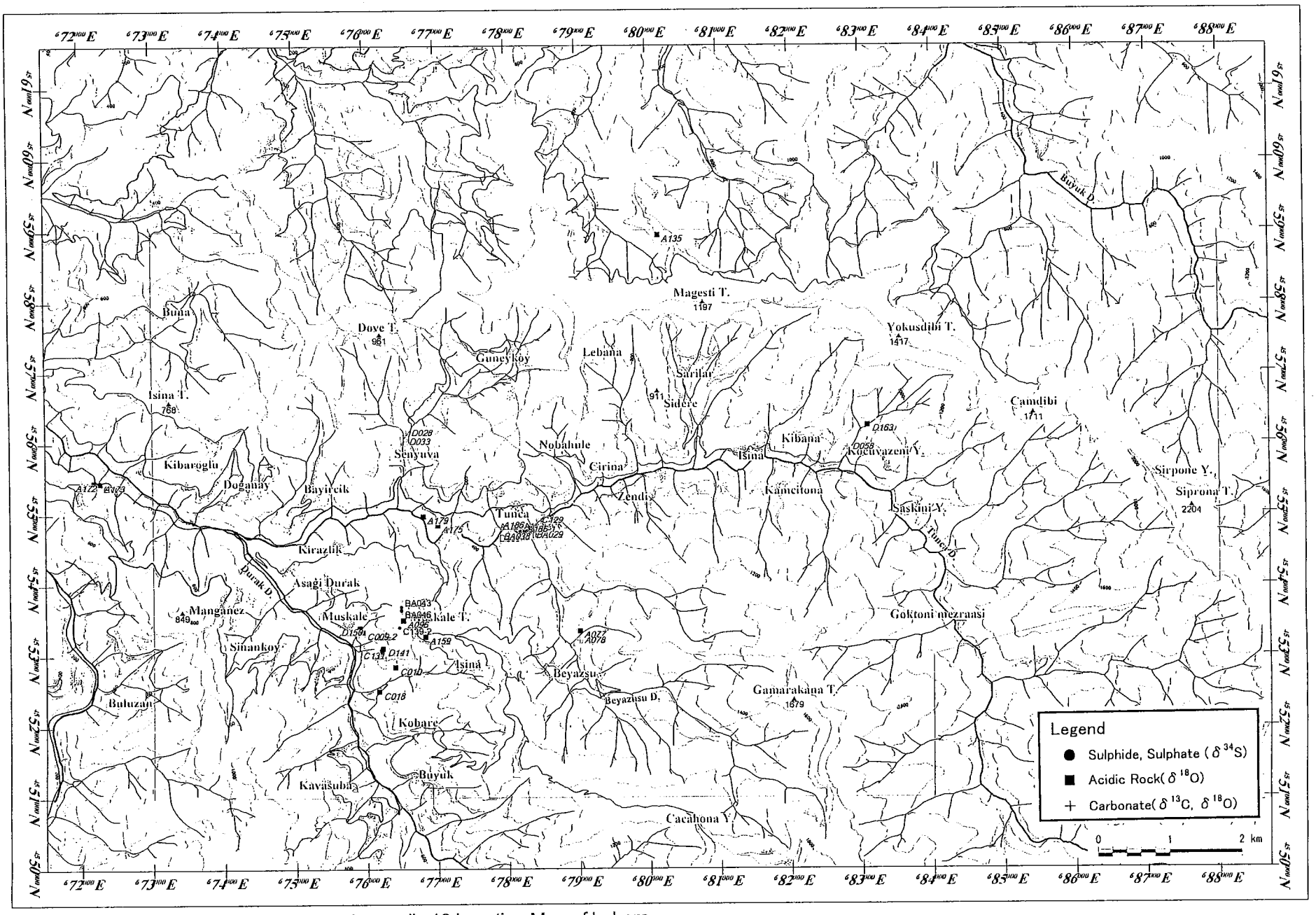
Appendix 10 Location Map of Laboratory Tests Samples (Ore Grade Analysis(1))



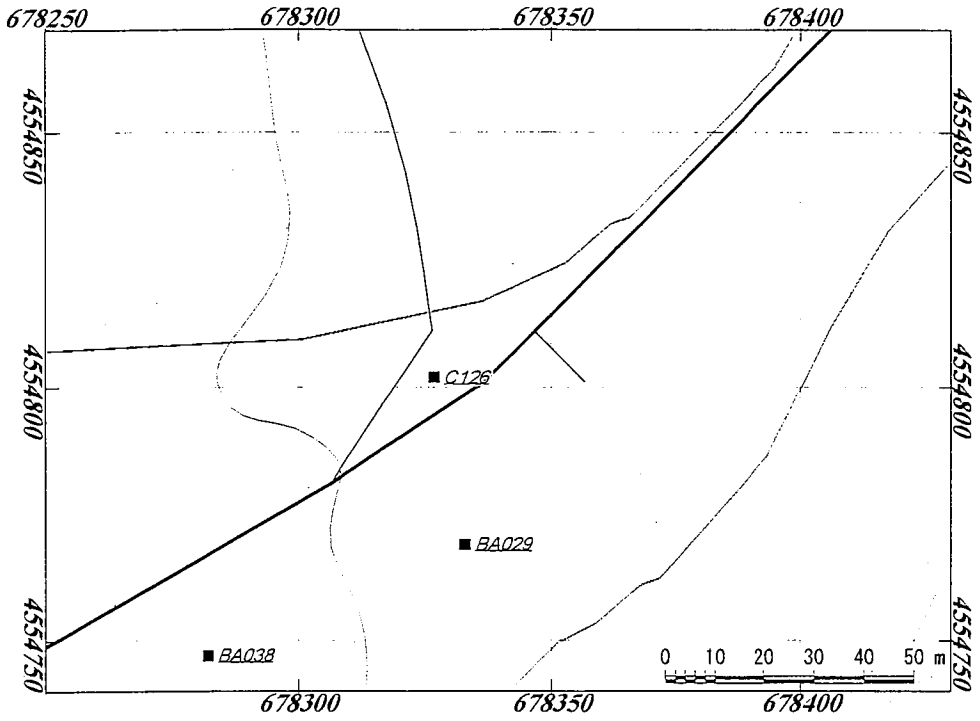
Appendix 10 Location Map of Laboratory Tests Samples (Ore Grade Analysis(2))

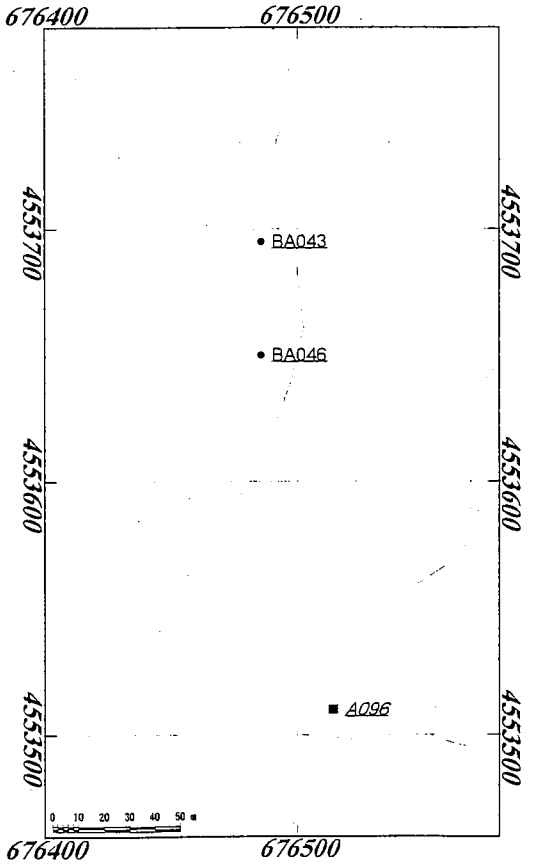


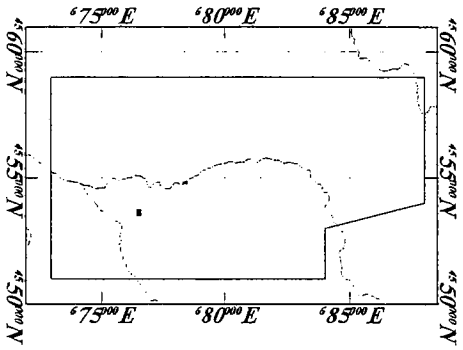
Appendix 10 Location Map of Laboratory Tests Samples (Stream Sediment)



Appendix 10 Location Map of Labora

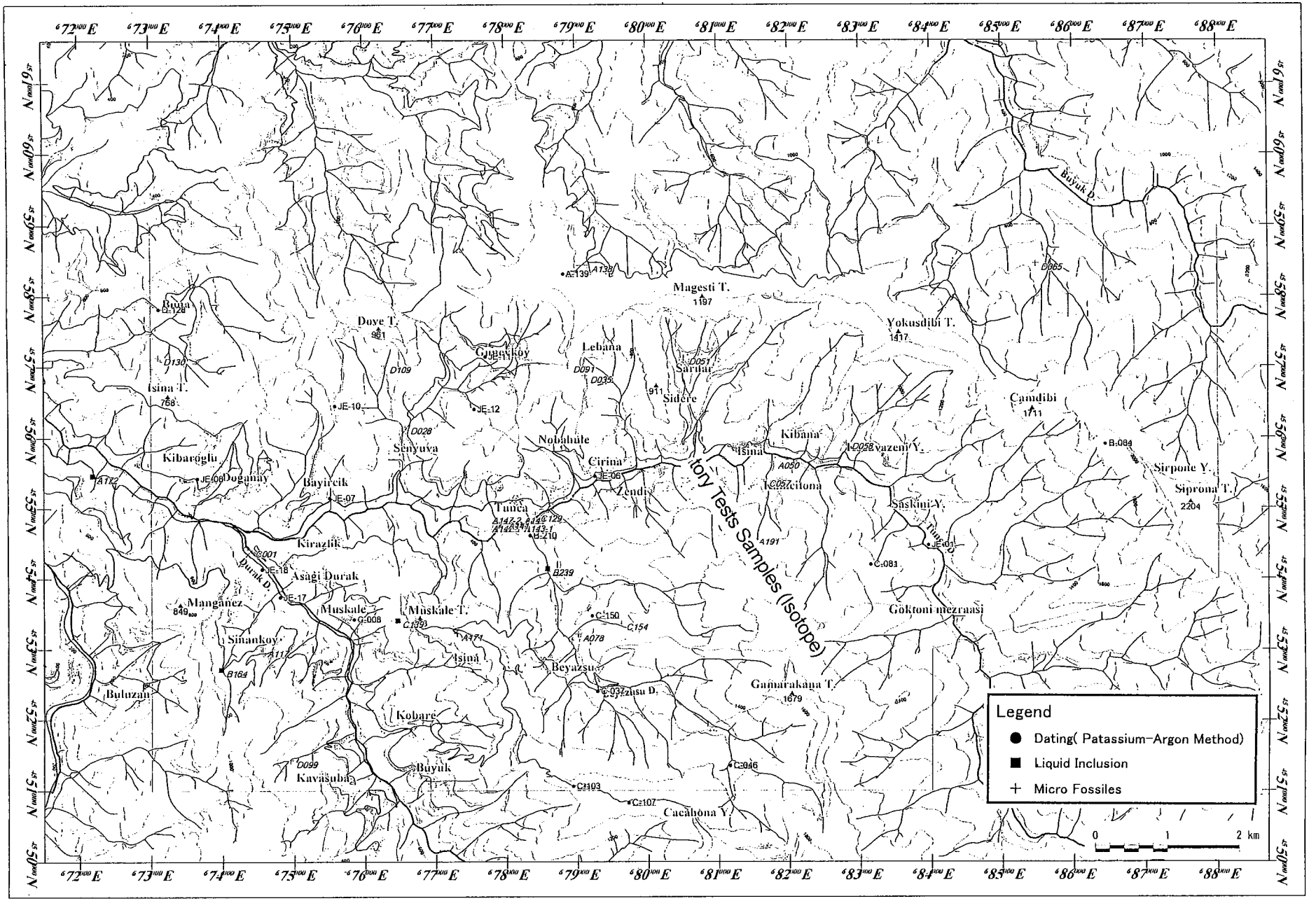






Legend
- Sulphide ($\delta^{34}S$)
- Acidic Rock($\delta^{18}O$)

Appendix 10 Location Map of Laboratory Tests Samples (Isotope)

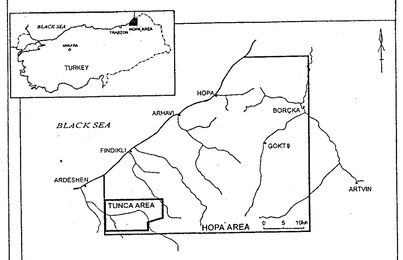


Appendix 10 Location Map of Laboratory Tests Samples (Dating, Liquid Inclusion and Micro Fossil)

REPORT ON THE MINERAL EXPLOATION IN THE HOPA AREA, THE REPUBLIC OF TURKEY

PHASE I

GEOLOGICAL MAP AND GEOLOGICAL CROSS SECTION
(SCALE 1:25,000)



JAPAN INTERNATIOMAL COOPERATION AGENCY
METAL MINING AGENDY OF JAPAN

FEBRUARY 2003

Legend

Alemağaç Formation
- Adcl — Dacite lava
- Atf — Dacitic Pyroclastics
- Adcp — Purplish Dacite

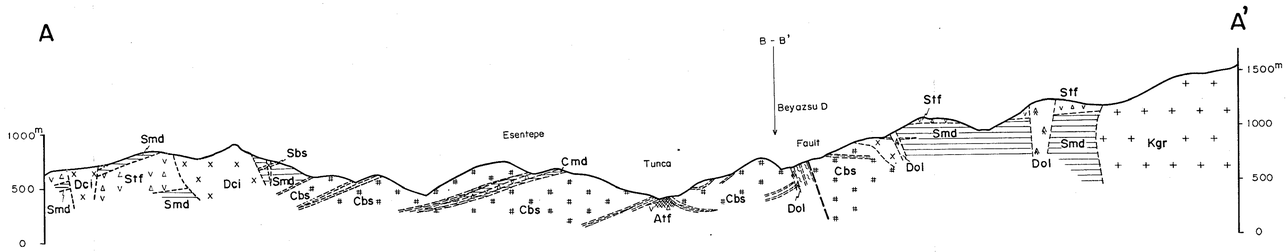
Çağlayan Formation
- Cms — Calcarious Mudstone
- Cds — Basalt lava
- Ctf — Tuff
- Cmd — Fine Tuff/Mudstone

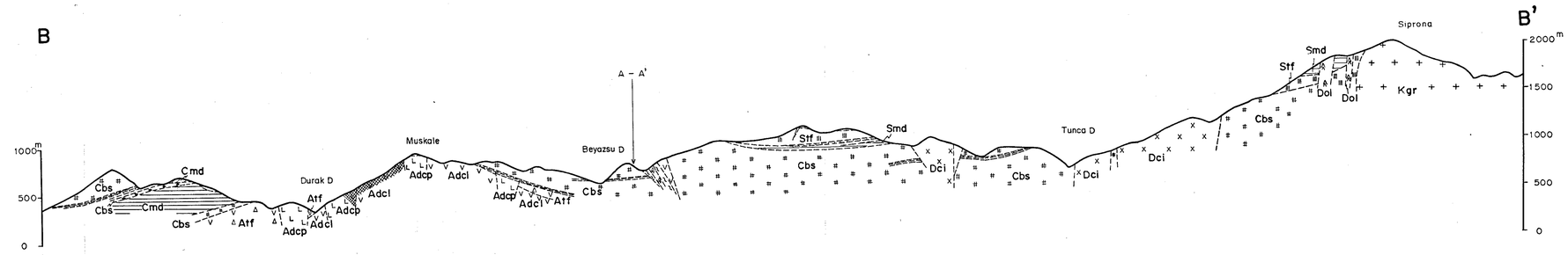
Sivrikaya Formation
- Sms — Calcarious Mudstone
- Stf — Tuff/Sandstone
- Smd — Fine Tuff/Mudstone
- Sbs — Basalt lava

Hamidiya Formation
- Hd — Pyroclastics

Intrusive Rocks
- Dcl — Dacite
- Dp — Porphyritic Dacite
- Dol — Doleite
- Kgr — Granitic rock

- 10 — Strke and Dip
- Fault
- Sheared
- Mineralization Zone

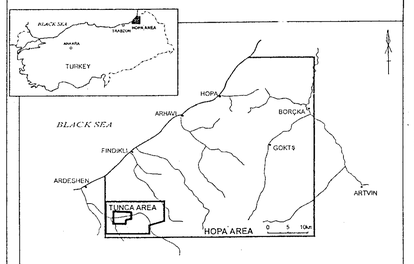




REPORT ON THE MINERAL EXPLOATION IN THE HOPA AREA, THE REPUBLIC OF TURKEY

PHASE I

GEOLOGICAL MAP AND GEOLOGICAL CROSS SECTION
(SCALE 1:10,000)



JAPAN INTERNATIOMAL COOPERATION AGENCY
METAL MINING AGENDY OF JAPAN
FEBRUARY 2003

Legend

Alemağaç Formation
- Adcl — Dacite lava
- Atf — Dacitic Pyroclastics
- Adcp — Purplish Dacite

Cağlayan Formation
- Cms — Calcarious Mudstone
- Cbs — Basalt lava
- Ctf — Tuff
- Cmd — Fine Tuff/Mudstone

Sivrikaya Formation
- Sms — Calcarious Mudstone
- Stf — Tuff/Sandstone
- Smd — Fine Tuff/Mudstone
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Hamidiya Formation
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Intrusive Rocks
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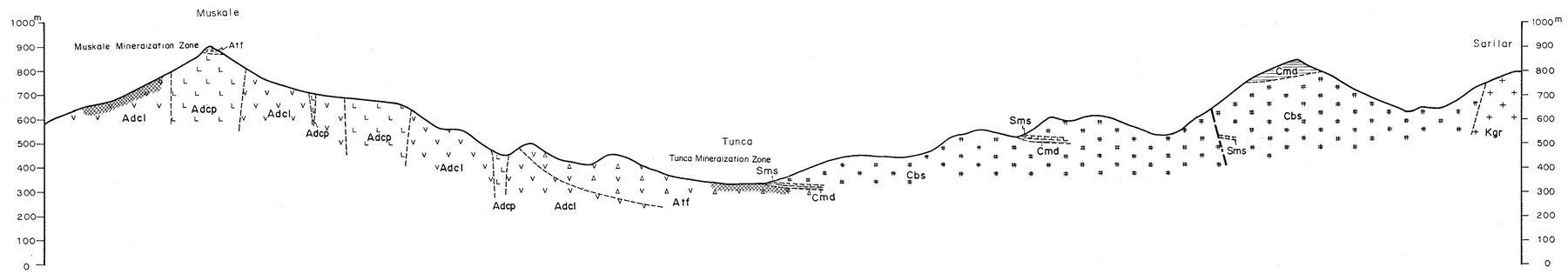
- Dp — Porphyritic Dacite
- Dol — Doleite
- Kgr — Granitic rock

- 10 — Strke and Dip
- Fault
- Sheared
- Mineralization Zone

A



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