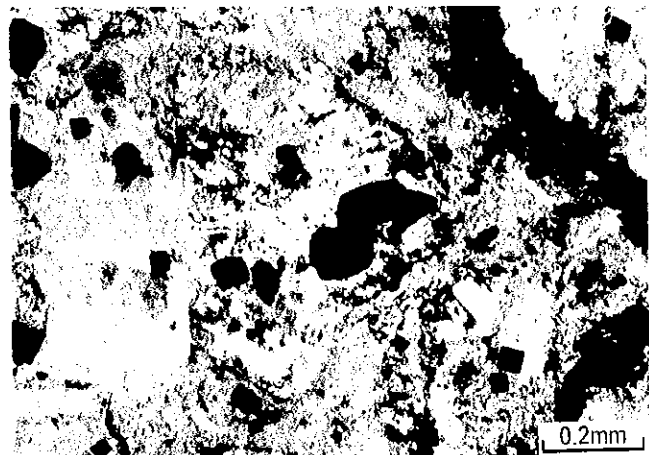
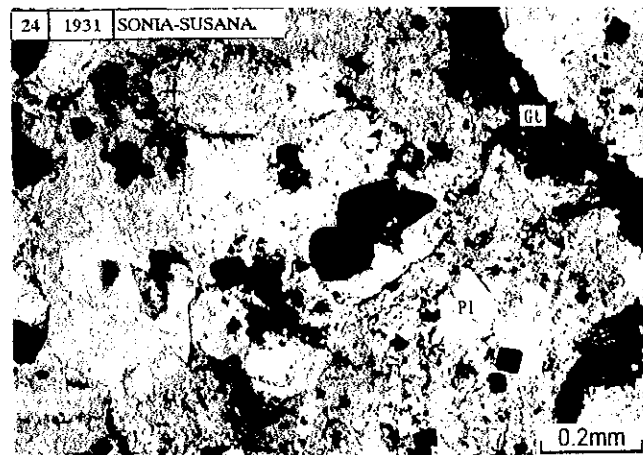
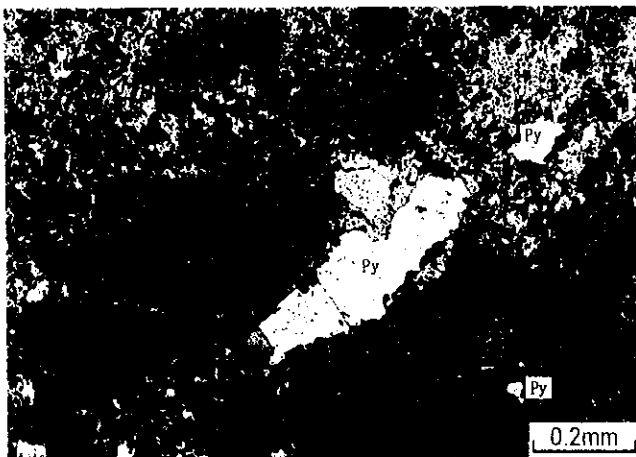
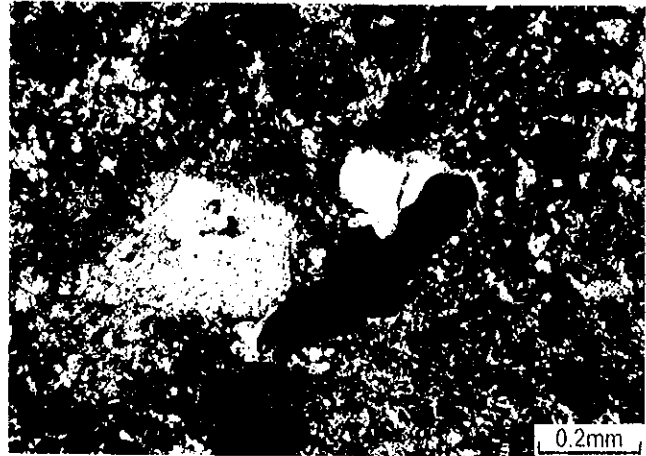


Photomicrographs of Polished Thin Sections

Plane polarized light

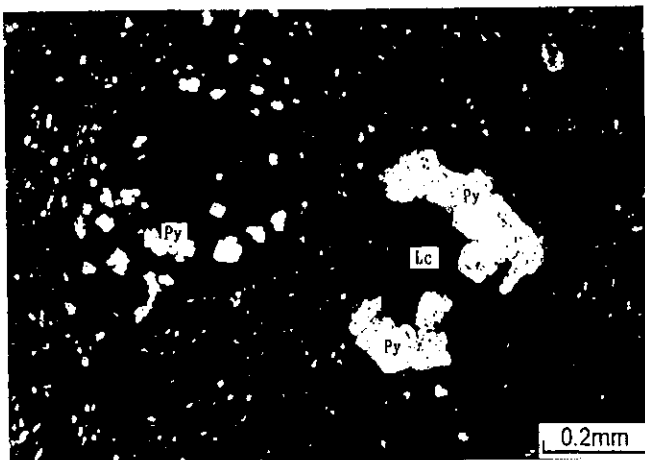
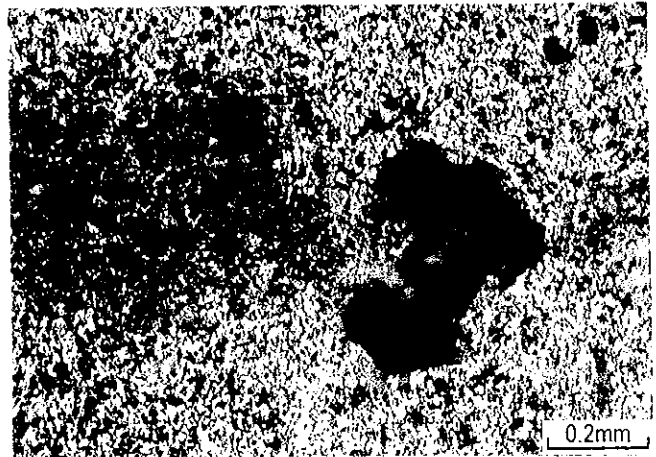
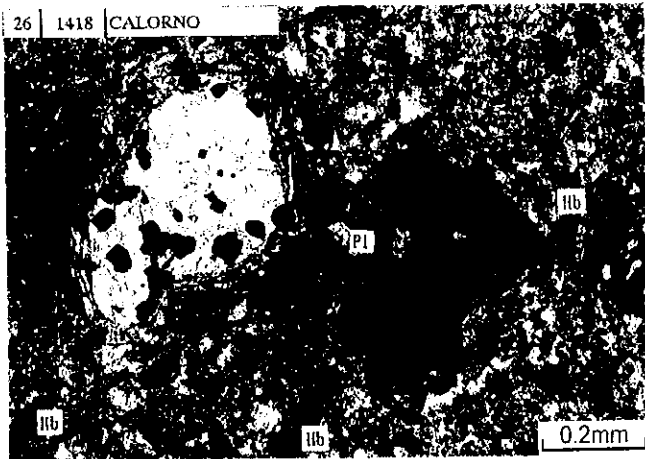
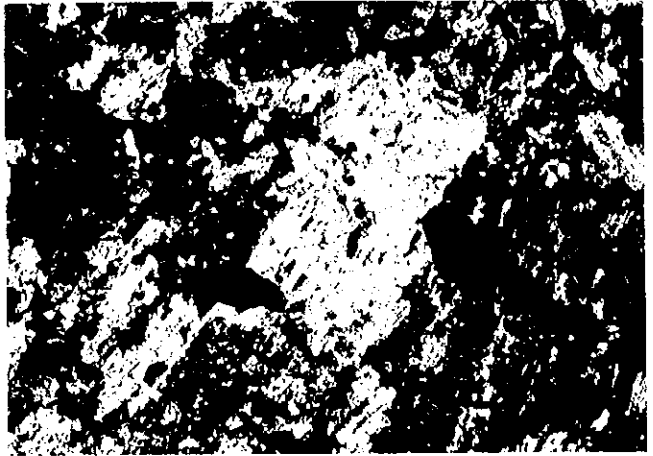
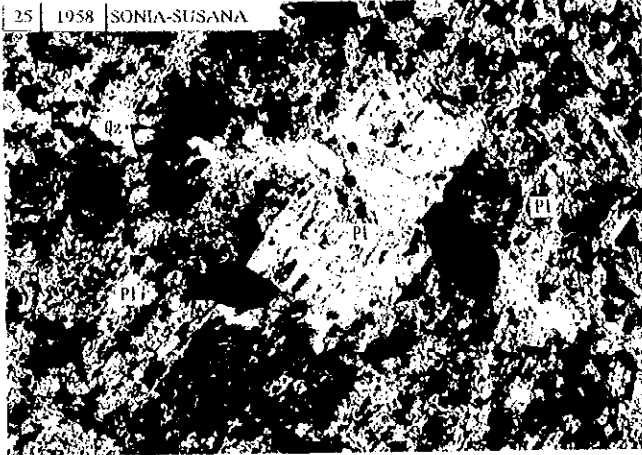
Crossed polarized light



Photomicrographs of Polished Thin Sections

Plane polarized light

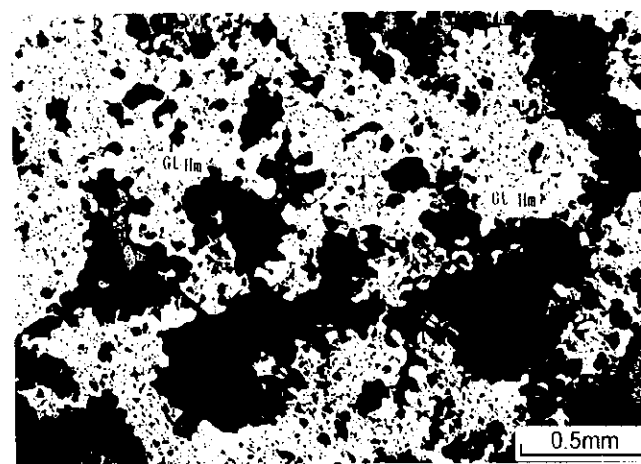
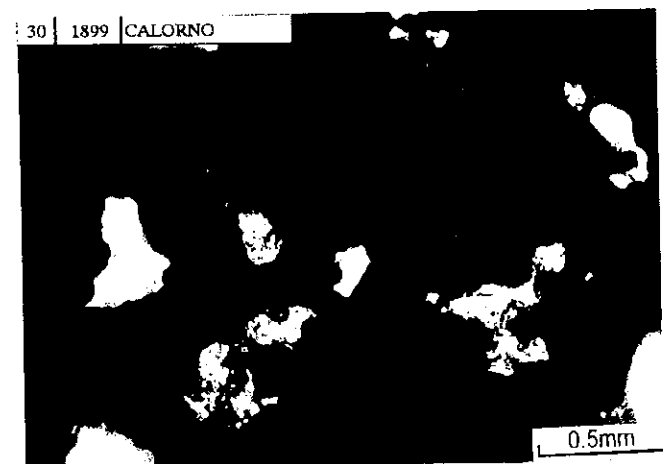
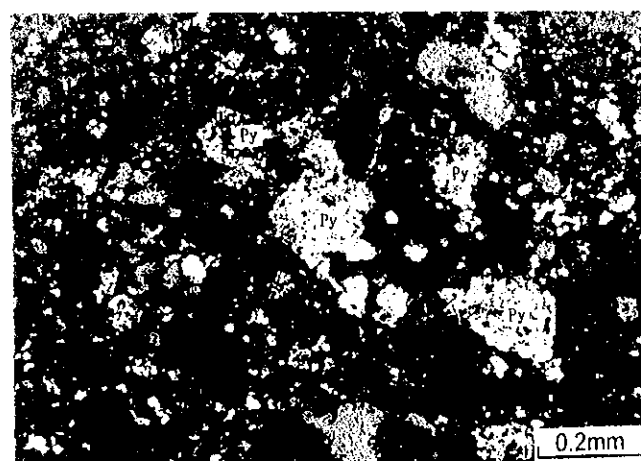
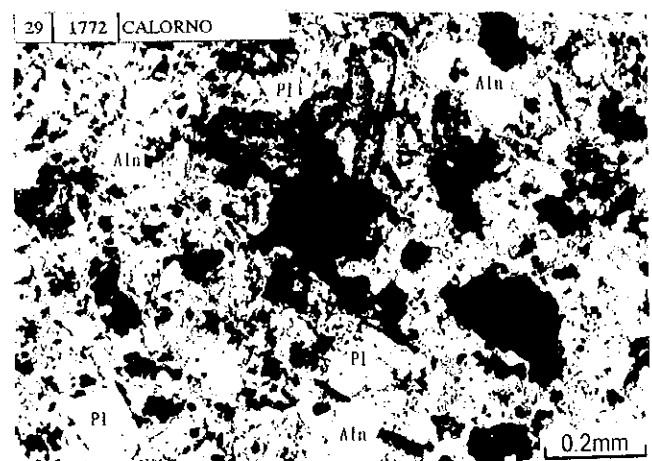
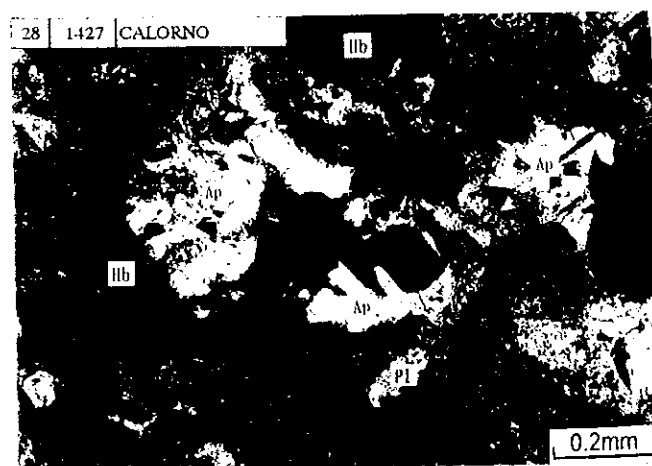
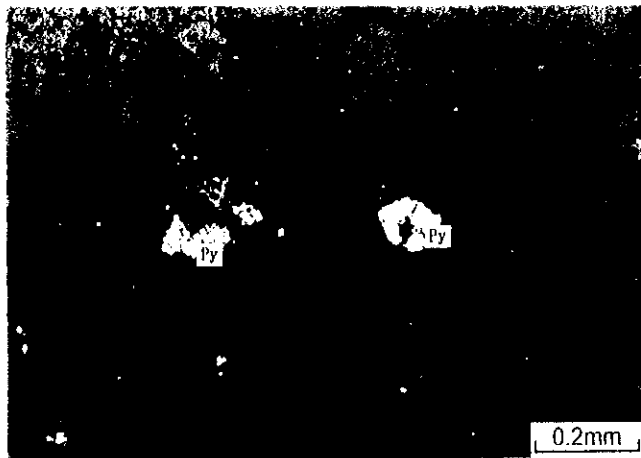
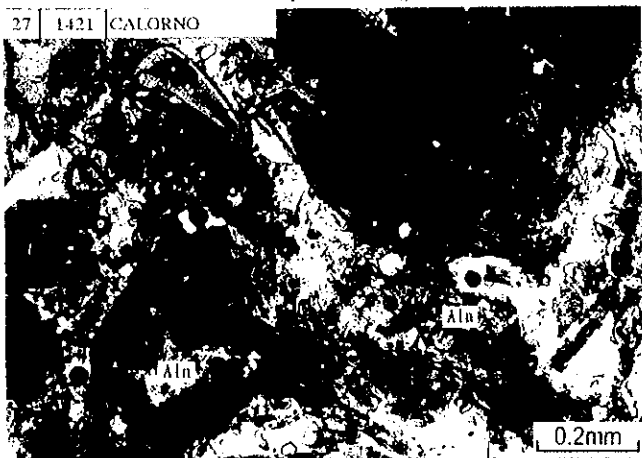
Crossed polarized light



Photomicrographs of Polished Thin Sections

Plane polarized light

Crossed polarized light



Appendix 4
X-ray Diffraction Analysis

"SAMPLE LIST of LABORATORY WORKS" (X-RAY)

Sample No.	District	UTM		Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Ba	Sn	
		N	E	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
1	1850	CALORNO	7,758,367	19,544,088	<2	<0.5	21	14	10	15	<5	40	2	414	<5
2	1852	CALORNO	7,758,157	19,544,377	<2	<0.5	33	3	19	28	<5	50	2	235	<5
3	1868	CALORNO	7,756,953	19,541,815	<2	<0.5	14	3	6	48	<5	10	2	231	<5
4	1870	CALORNO	7,757,251	19,542,252	<2	<0.5	4	<3	5	36	<5	20	2	591	<5
5	1884	CALORNO	7,757,051	19,544,319	<2	<0.5	11	15	14	17	<5	20	3	204	<5
6	1886	CALORNO	7,756,973	19,544,377	<2	<0.5	21	4	16	14	<5	10	5	54	<5
7	1892	CALORNO	7,756,954	19,544,737	<2	<0.5	11	<3	7	15	<5	20	4	589	<5
8	1737	CALORNO	7,760,426	19,543,384	<2	<0.5	23	3	9	<5	<5	20	<1	310	<5
9	1741	CALORNO	7,761,416	19,543,621	<2	<0.5	5	<3	<2	5	<5	60	2	84	<5
10	1748	CALORNO	7,761,479	19,544,342	<2	<0.5	8	11	6	13	<5	20	3	312	<5
11	1757	CALORNO	7,762,029	19,543,152	<2	<0.5	15	<3	<2	20	<5	320	8	1,261	<5
12	1764	CALORNO	7,761,525	19,542,980	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,438	<5
13	1898	CALORNO	7,759,591	19,547,130	<2	<0.5	8	<3	19	64	<5	20	2	161	<5
14	1905	CALORNO	7,759,591	19,547,130	<2	<0.5	14	83	35	255	<5	20	<1	248	<5
15	1913	CALORNO	7,759,411	19,547,168	<2	<0.5	45	<3	201	10	<5	10	2	629	<5
16	1019	CALORNO	7,763,127	19,543,530	<2	<0.5	4	13	2	31	<5	60	2	78	<5
17	1119	CALORNO	7,763,313	19,543,755	<2	<0.5	12	<3	<2	10	<5	20	4	50	<5
18	1241	CALORNO	7,762,910	19,544,210	<2	<0.5	3	<3	<2	<5	<5	10	18	960	<5
19	1424	CALORNO	7,764,870	19,541,700	<2	<0.5	16	19	2	29	<5	130	19	321	<5
20	1431	CALORNO	7,765,935	19,540,560	4	<0.5	107	6	17	123	<5	30	8	178	<5
21	1433	CALORNO	7,766,025	19,539,910	<2	<0.5	30	<3	<2	9	<5	1,920	2	138	<5
22	1453	CALORNO	7,754,100	19,544,085	<2	<0.5	37	<3	67	6	<5	110	<1	736	<5
23	1531	CALORNO	7,766,562	19,540,217	<2	<0.5	60	<3	8	<5	<5	10	1	122	<5
24	1476	CHULLCANI	7,977,300	19,578,590	<2	<0.5	16	13	19	<5	<5	10	2	168	<5
25	1715	LOMA LLENA	7,722,129	19,571,919	<2	<0.5	13	5	5	74	<5	5,750	7	117	<5
26	1719	LOMA LLENA	7,721,900	19,572,083	<2	<0.5	61	6	7	82	<5	20	1	110	<5
27	1725	LOMA LLENA	7,721,349	19,572,286	2	<0.5	39	7	13	36	<5	30	42	147	<5
28	1703	LOMA LLENA	7,710,358	19,579,957	<2	<0.5	6	<3	3	6	<5	20	6	552	<5
29	1707	LOMA LLENA	7,710,186	19,579,500	<2	<0.5	5	<3	3	5	<5	50	4	322	<5
30	1813	LOMA LLENA	7,709,764	19,581,048	<2	<0.5	4	<3	3	<5	<5	10	3	285	<5
31	1205	LOMA LLENA	7,712,787	19,578,504	11	<0.5	6	<3	<2	<5	<5	3,420	12	355	<5
32	1221	LOMA LLENA	7,710,840	19,579,237	<2	<0.5	2	<3	<2	<5	<5	<10	6	55	<5
33	1301	LOMA LLENA	7,712,644	19,578,138	<2	<0.5	5	4	6	<5	<5	20	5	539	<5
34	1305	LOMA LLENA	7,712,129	19,578,790	<2	<0.5	<2	<3	<2	<5	<5	20	2	12	<5
35	1306	LOMA LLENA	7,711,990	19,578,653	<2	<0.5	<2	<3	<2	<5	<5	10	3	276	<5
36	1308	LOMA LLENA	7,711,925	19,578,792	<2	<0.5	<2	<3	<2	<5	<5	10	3	218	<5
37	1401	LOMA LLENA	7,717,500	19,577,500	<2	<0.5	3	<3	3	<5	<5	20	<1	133	<5
38	1409	LOMA LLENA	7,725,430	19,571,810	4	<0.5	3	3	2	19	<5	60	2	135	<5
39	1410	LOMA LLENA	7,725,665	19,571,300	<2	<0.5	45	5	3	26	<5	90	10	154	<5
40	1415	LOMA LLENA	7,725,380	19,571,060	<2	<0.5	32	<3	6	9	<5	40	<1	105	<5
41	1920	SONIA SUSANA	7,918,320	19,515,537	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5
42	1932	SONIA SUSANA	7,919,460	19,513,695	846	10	38	94	33	129	91	10	15	1,410	18
43	1463	SONIA SUSANA	7,917,977	19,513,952	<2	<0.5	<2	13	10	<5	<5	10	<1	244	<5
44	1468	SONIA SUSANA	7,917,140	19,514,280	<2	<0.5	3	12	26	<5	<5	10	<1	287	<5
45	1469	SONIA SUSANA	7,917,040	19,513,975	2	<0.5	<2	11	55	12	<5	30	<1	225	<5
46	1618	SONIA SUSANA	7,918,172	19,520,423	<2	<0.5	5	23	48	27	<5	40	1	104	<5
47	1969	TURAQUIRI	7,994,389	19,561,296	2	82	249	3,150	4,373	61	<5	1,100	1	30	<5
48	1971	TURAQUIRI	7,994,390	19,561,278	<2	2	11	228	637	36	<5	170	2	357	<5
49	1974	TURAQUIRI	7,994,383	19,561,367	<2	1	34	2,519	1,648	79	<5	150	<1	224	<5
50	1977	TURAQUIRI	7,994,385	19,561,336	<2	9	12	3,134	1,047	59	<5	530	4	86	<5

No.	Sample No.	Locality	Rock		Mineral	Quartz	Smectite	Kaolinite	Sericite (Biotite)	Chlorite	Sericite/Smectite	Allurite	Plagioclase	Potassium feldspar	Pyrophyllite	Amphibole	Calcite	Halloysite	Goethite	Garnet	Pyrite	Sphalerite	Galena	Magnetite	Hematite
1	001019	CALORNO	da	arg	wht to ylw	⊙						Δ	○	Δ											
2	001119	CALORNO	bre-sil			⊙						Δ	Δ	Δ											
3	001241	CALORNO	r-arg			⊙																			
4	001424	CALORNO	an lava	st sil	qz vlt	⊙																			
5	001431	CALORNO	an lptf	st arg	m sil	⊙		Δ	★			Δ	○											★	
6	001433	CALORNO	an lptf	st sil		○						⊙	⊙												
7	001453	CALORNO	hb bt an da lava	st arg		Δ		Δ	★?			⊙	○												
8	001531	CALORNO	str-sil			Δ						○	⊙	Δ											
9	001737	CALORNO	l-gry-wht bt da			★		Δ	★			○	⊙	⊙											
10	001741	CALORNO	wht sil an			Δ						○	⊙	Δ											
11	001748	CALORNO	p-brn wht alt r arg			⊙			Δ		★		Δ	Δ											
12	001757	CALORNO	p-brn wht tf sil			⊙							⊙												
13	001764	CALORNO	wht l-brn an			⊙							⊙												
14	001850	CALORNO	arg lptf			Δ		○	★	Δ		Δ	⊙	Δ											
15	001852	CALORNO	arg-an			★		Δ	★			★?		Δ											
16	001868	CALORNO	sil-arg tfbr			○		⊙	★	★		⊙	⊙	Δ											
17	001870	CALORNO	stg-sil arg tfbr			○		⊙	★	★		⊙	⊙	Δ											
18	001884	CALORNO	arg-tfbr			★		⊙	○			○	⊙	Δ											
19	001886	CALORNO	stg arg tfbr			⊙		★	○			★?	⊙	Δ											
20	001892	CALORNO	stg arg tfbr			Δ		⊙				○	⊙											★	
21	001898	CALORNO	stg-arg, sil an?			○		⊙				⊙	○	⊙											
22	001905	CALORNO	gth in stg-arg sil an			Δ		★	★			Δ	⊙	Δ											
23	001913	CALORNO	gth in wk-arg prpy an			Δ		★	★			Δ	⊙	Δ											
24	001476	CHULLCANI	an vol bre	st sil arg	vlt py	⊙			★			★?	Δ	Δ											
25	001205	LOMA LLENA	r-sil-bre-arg			⊙																			
26	001221	LOMA LLENA	str-bre-arg			⊙																			
27	001301	LOMA LLENA	bre			⊙																			
28	001305	LOMA LLENA	tfbr			⊙																			
29	001306	LOMA LLENA	tfbr			⊙																			
30	001308	LOMA LLENA	tfbr			⊙																			
31	001401	LOMA LLENA	an tf	st aln	sil			Δ				⊙	⊙												
32	001409	LOMA LLENA	an da lptf	st sil	bxwk py	⊙		Δ				⊙	⊙												
33	001410	LOMA LLENA	an da lava	st sil	aln bxwk	⊙						○	○												
34	001415	LOMA LLENA	an da lava	m st sil	arg py	⊙		Δ	★			○	⊙												
35	001703	LOMA LLENA	lptf			⊙																			
36	001707	LOMA LLENA	arg-sil-r			Δ							⊙												
37	001715	LOMA LLENA	wht lptf			Δ		★				⊙	⊙	Δ											
38	001719	LOMA LLENA	pur-red brn gry an			⊙		Δ	★			Δ	⊙												
39	001725	LOMA LLENA	p-grn-gry an			⊙		Δ	★				⊙												
40	001813	LOMA LLENA	sil arg an			⊙																			
41	001463	SONIA~SUSANA	bt an da tf	m st arg	w sil	⊙			★				Δ	Δ											
42	001468	SONIA~SUSANA	bt an da lp tf	st arg	py	⊙			★				○	○											
43	001469	SONIA~SUSANA	bt an da lp tf	st sil	arg	⊙			★				Δ	○											
44	001618	SONIA~SUSANA	bt-hb an			⊙			★				Δ	Δ											
45	001920	SONIA~SUSANA	prpy tf			⊙		★	★				Δ	⊙											
46	001932	SONIA~SUSANA	stg arg, sil lptf?	clay		⊙					★		★	★											
47	001969	TURAQUIRI	qz-ba vein	tunnel		⊙		★	Δ				○	○											
48	001971	TURAQUIRI	qz-ba vein	tunnel		⊙		★	Δ	Δ			Δ	○											
49	001974	TURAQUIRI	qz-ba vein	tunnel		⊙		★	★				Δ	○											
50	001977	TURAQUIRI	qz-ba vein	tunnel		⊙		○					★	○											

⊙ ; Abundant, ○ ; Common, Δ ; Poor, ★ ; Trace

Appendix 4 Results of X-ray Diffraction Analysis

Appendix 5
Fluid Inclusion Analysis

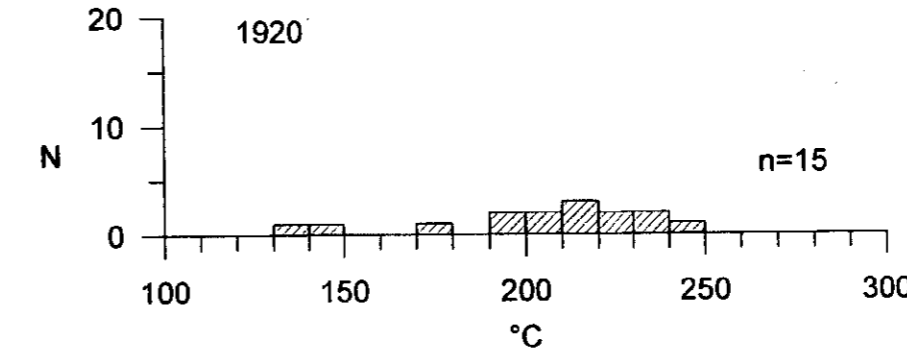
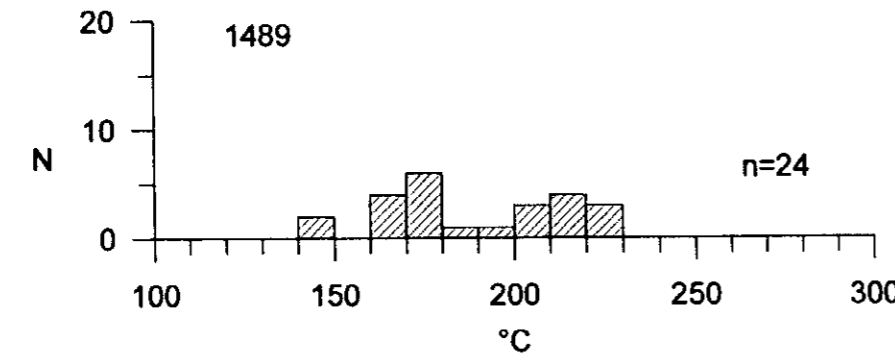
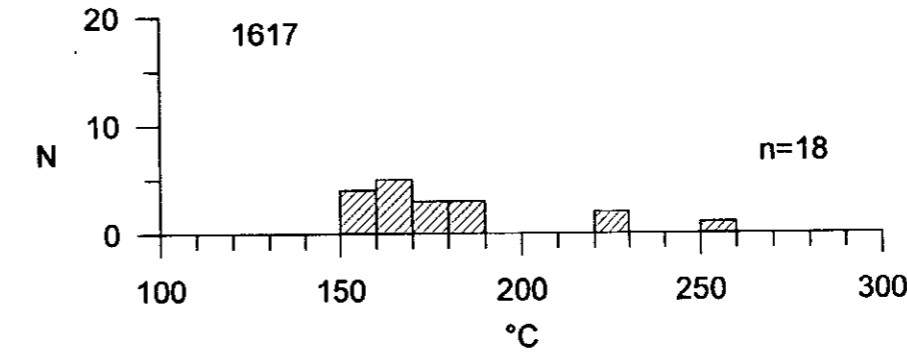
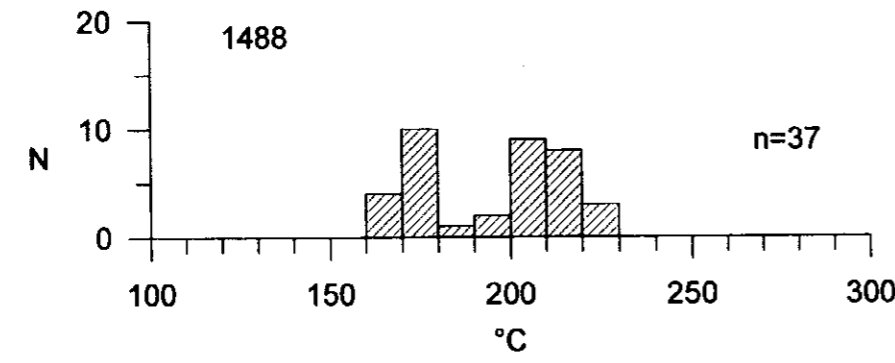
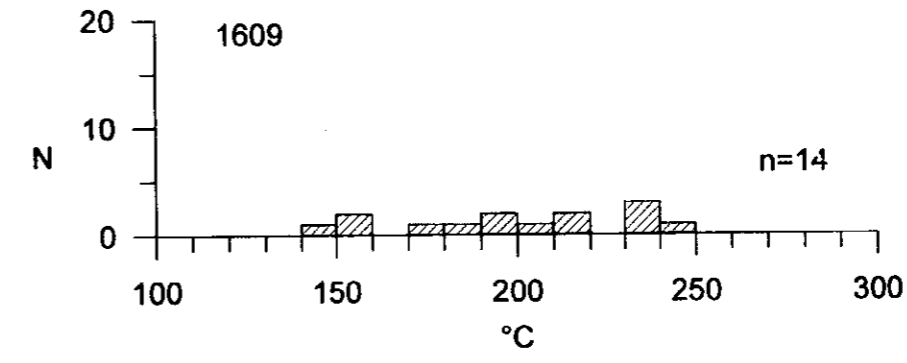
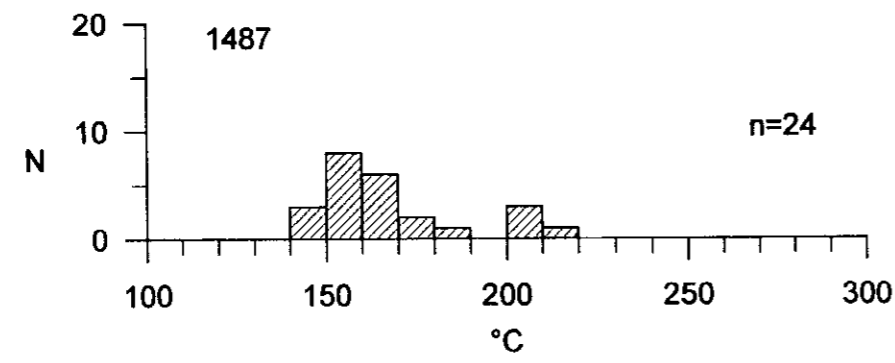
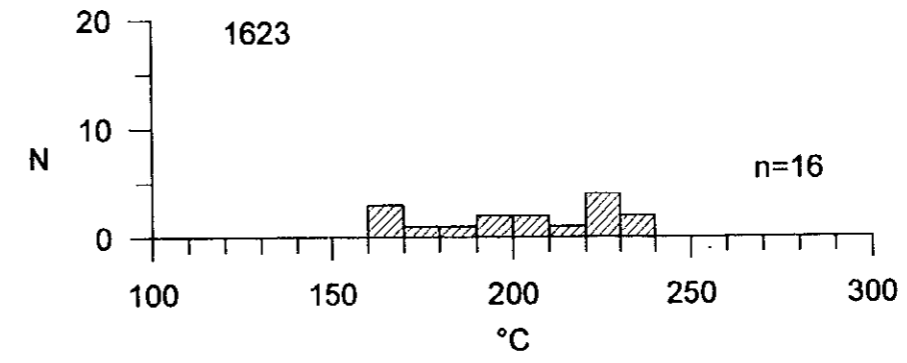
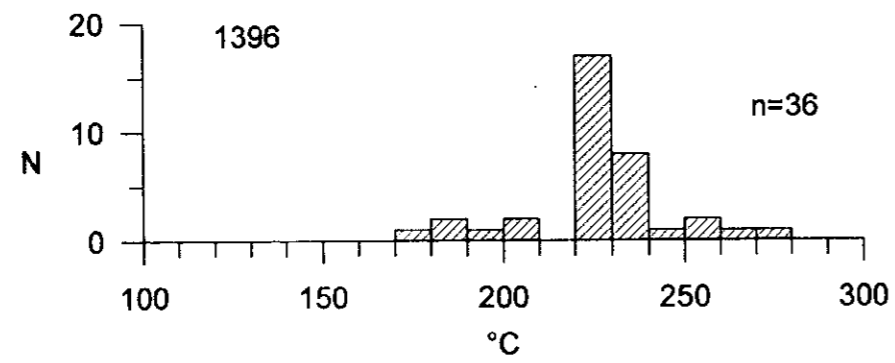
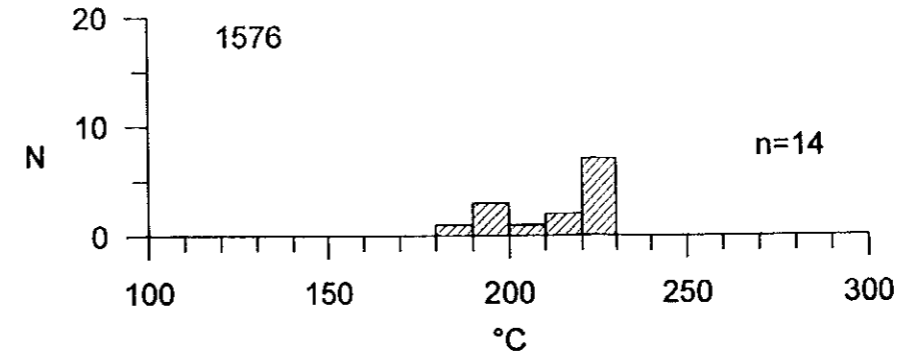
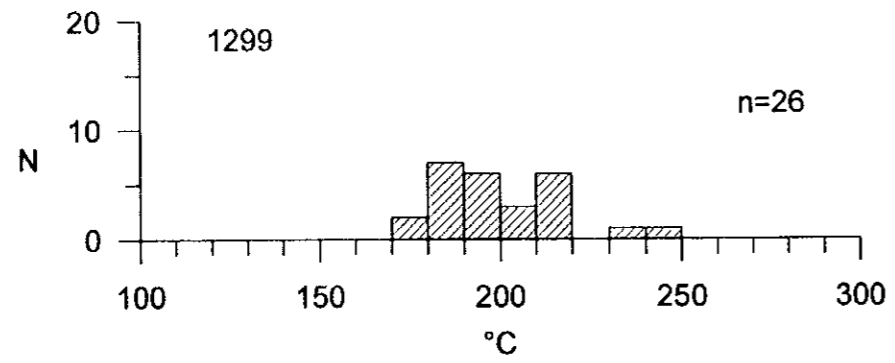
"SAMPLE LIST of LABORATORY WORKS" (FLUID INCLUSION)

Sample No.	District	UTM		Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Ba	Sn	
		N	E	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
1	1299	TURAQUIRI	7,994,548	19,562,218	10	315	535	2,395	5,757	241	15	2,420	2	5,350	<5
2	1396	TURAQUIRI	7,994,596	19,562,215	3	877	125	4,400	2,834	22	<5	360	2	6,585	<5
3	1487	TURAQUIRI	7,994,820	19,560,780	<2	12	14	62	967	<5	<5	50	2	281	<5
4	1488	TURAQUIRI	7,994,605	19,562,167	8	191	94	653	464	8	<5	50	8	3,787	<5
5	1489	TURAQUIRI	7,994,599	19,562,184	<2	251	159	2,585	898	12	<5	70	2	5,169	<5
6	1576	TURAQUIRI	7,994,593	19,562,215	<2	583	14	650	331	6	<5	510	8	3,481	<5
7	1623	TURAQUIRI	7,994,594	19,562,187											
8	1609	SONIA SUSANA	7,916,473	19,514,775	<2	<0.5	30	371	12,109	10	<5	450	3	2,143	<5
9	1617	SONIA SUSANA	7,918,008	19,520,306	<2	1	8	16	38	20	<5	30	<1	150	<5
10	1920	SONIA SUSANA	7,918,320	19,515,537	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5

District	sample No.	Host Minerals	Homogenization temperatures (Th°C) and melting temperatures (Tmice°C)															number of inclusions	Range °C	Avg. °C	NaCl in Solution (wt%)				
			Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)	Th(°C)	Tmice(°C)									
Turquini	1299	quartz	173	175	182	183	183	183	186	186	187	191	195	196	197	198	200	204	26	173 - 247	200				
			209	210	211	211	212	212	214	215	232	247	19	-6.9 - -5.0	-5.8	8.9									
			-6.9	-6.9	-6.7	-5.9	-5.9	-5.7	-5.7	-5.7	-5.7	-5.7					-5.7	-5.7					-5.7	-5.5	-5.5
	1396	quartz	178	184	187	197	203	206	226	226	226	226	226	226	226	226	227	227	36	178 - 280	227				
			227	227	227	228	229	230	232	232	232	232	234	236	238	239	242	24					-10.8 - -4.8	-7.9	11.5
			251	260	268	280	-10.8	-10.8	-10.8	-10.7	-10.7	-10.7	-10.7	-10.7	-10.3	-6.2	-5.9								
	1487	quartz	149	149	150	151	151	153	157	158	160	160	160	161	162	162	164	166	24	149 - 215	168				
			166	171	171	182	201	202	203	215	19	-2.4 - -0.4	-1.9	3.1											
			-2.4	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3					-2.2	-2.2	-2.2	-1.1					-1.1		
	1488	quartz	161	167	167	168	171	173	174	176	176	177	179	179	180	180	187	192	37	161 - 227	197				
			197	202	202	205	205	206	207	207	209	215	218	218	220	220	220	21					-8.0 - -5.5	-6.8	10.3
			220	220	222	224	227	-8.0	-8.0	-8.0	-7.7	-7.7	-7.4	-7.4	-6.9	-6.9	-6.8								
	1489	quartz	146	148	163	164	167	170	172	174	174	180	180	180	188	197	203	205	24	146 - 227	190				
			208	211	212	219	219	222	223	227	22	-12.6 - -4.3	-9.0	12.8											
			-12.6	-11.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7					-10.7	-10.7	-10.5	-10.5					-6.4	-6.4	
1576	quartz	181	192	197	200	202	213	218	222	224	224	225	225	226	230	14	181 - 230	213							
		9.9	-8.0	-8.0	-7.8	-7.7	-7.6	-7.5	-7.4	-7.4	-7.3	-7.3	-7.3	-7.1	-7.0					16	-9.9 - -7.0	-7.6	11.3		
		163	166	170	171	185	195	197	204	210	219	224	225	225	229									232	232
1623	quartz	149	151	160	180	189	195	197	204	212	218	232	235	240	249	14	149 - 249	201							
		4.8	-4.7	-4.5	-4.5	-4.4	-4.4	-4.3	-4.2	-4.0	-4.0	-3.9	-3.9	-3.8	-3.4					-3.3	15	-4.8 - -3.3	-4.1	6.6	
		151	152	154	159	162	163	164	166	170	172	173	173	185	189					189					222
1617	quartz	228	258	18	151 - 258	179																			
		3.5	-2.8						-2.7	-2.6	-2.6	-2.4	-2.3	-1.3	-1.2	-1.2	-1.1	12	-3.5 - -1.1	-2.2	3.7				
		139	144						176	195	197	201	209	211	215	220	222					227	235	235	249
1920	quartz	4.2	-3.2	-2.9	-2.8	-2.7	-2.7	-2.6	-2.6	-2.6	-2.6	-2.3	-1.8	-1.6	-1.6	-1.5	-1.5	17	-4.2 - -1.3	-2.3	3.9				
		-1.3	17	-4.2 - -1.3	-2.3	3.9																			

$$\text{NaCl in Solution (wt\%)} = 0+1.76958*(-\theta)-4.2384*10^{(-2)*(-\theta)^2}+5.2778*10^{(-4)*(-\theta)^3}$$

Appendix 5 Results of Fluid Inclusion Analysis



Histogram of the Homogenization Temperature

Appendix 6
Isotopic Dating

"SAMPLE LIST of LABORATORY WORKS" (DATING SAMPLES)

Serial No.	Sample No.	District	UTM		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm	
			N	E												
1	2112	TURAQUIRI	7,994,430	19,561,220												
2	2113	CHULLCANI	7,974,520	19,520,104												
3	2107	SONIA SUSANA	7,922,907	19,521,079												
4	2108	SONIA SUSANA	7,922,593	19,508,987												
5	2109	SONIA SUSANA	7,919,177	19,508,313												
6	1863	CALORNO	7,755,838	19,543,883	<2	<0.5	53	<3	46	<5	<5	20	2	149	<5	
7	2101	CALORNO	7,765,981	19,545,979												
8	1042	LOMA LLENA	7,710,833	19,582,348												
9	1043	LOMA LLENA	7,723,886	19,571,711												
10	1142	LOMA LLENA	7,710,067	19,579,257												

Sample No.	Locality		Rock name	Mineral analyzed	% K	Rad. ⁴⁰ Ar		Isotopic Age (Ma)	
	District	UTM-N				UTM-E	nL/g		% /Total
2112	Turaquiri	7,994,430	19,561,220	Dacite Tuff	biotite	5.85	2.2549	55.1	5.51 ± 0.11
2113	Chullcani	7,974,520	19,520,104	Bt-Hy-Aug-Hb Andesite	whole rock	2.52	0.6011	60.6	6.13 ± 0.12
2107	Sonia - Susana	7,922,907	19,521,079	Rhyolitic Tuff	biotite	5.81	4.0173	71.3	17.70 ± 0.35
2108	Sonia - Susana	7,922,593	19,508,987	Bt-Rhyolite	biotite	7.18	0.4826	16.2	1.73 ± 0.03
2109	Sonia - Susana	7,919,177	19,508,313	Bt-Hb-Dacite	biotite	6.05	0.3574	13.5	1.52 ± 0.03
1863	Calorno	7,755,838	19,543,883	Ol-Hy-Aug-Bt Andesite	biotite	5.69	2.5948	59.1	11.69 ± 0.23
2101	Calorno	7,765,981	19,545,979	Ol-Hy-Aug-Hb-Bt Andesite	biotite	6.46	2.2672	56.1	9.01 ± 0.18
1042	Loma Llana	7,710,833	19,582,348	Hy Andesite	whole rock	3.70	0.5854	69.8	4.07 ± 0.08
1043	Loma Llana	7,723,886	19,571,711	Aug-Hb Andesite	biotite	5.48	1.3309	47.8	6.24 ± 0.12
1142	Loma Llana	7,710,067	19,579,257	Bt-Hy-Aug Andesite	biotite	4.72	0.6896	43.4	3.75 ± 0.08

CONSTANS

Decay Constants : $\lambda_{\beta} = 4.962 \times 10^{-10} \text{ yr}^{-1}$

$\lambda_{\epsilon} = 0.572 \times 10^{-10} \text{ yr}^{-1}$

Isotope abundance : $^{40}\text{K}/\text{K} = 1.167 \times 10^{-4}$ (atomic)

Aug=Augite

Hb=Hornblende

Bt=Biotite

Ol=Olivine

Hy=Hypersthene

Appendix 6 Results of Isotopic Dating

Appendix 7

Table of Ore Deposits and Ore Showings

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S.	Long W.	Type	Deposit description and references
1	Azurita mine	18 04 06	68 09 22	Ba-Cu	Stratabound Cu-Ag mineralization hosted by a fluvial coarse-grained sandstone to conglomerate sandwiched between two basalt flows. Sedimentary rocks, including shale, exhibit stratabound cuprite-native copper mineralization and are cut by subvertical fractures filled by cuprite-tennantite-celestite. Native copper, partly oxidized to chrysocolla, replaces calcite cement in basalt. Alteration minerals in basalt are chlorite, kaolinite, and carbonate. Exposed mineralized zone is 1 km long and consists of five mantos, each as thick as 1.6 m. Production (1948-62) was 70,000 t at 3.5-4.0% Cu. Reserves in 1969 were 660,000 t at 2.2% Cu. (Schneider-Scherbina, 1963; Murillo and others, 1969)
2	Sonia prospect	18 47 00	68 50 30	BPV	North end of a large alteration zone in an eroded stratovolcano complex. East-west veins and stockworks of Fe and manganese oxides in silicic, argillic and propylitic altered andesite and dacite. Altered zones have as much as 0.4 g/t Au and 16 g/t Ag. A sample of veinlet material had 2 g/t Au, 1,740 g/t Ag, 100 ppm As, and 110 ppm Sb. (MINTEC, oral commun., 1990; this study)
3	Paco Khaua prospect (Paco Cagua)	18 48 50	68 49 00	BPV	Sericitized, argillized, and silicified rhyolite cut by veins and stockworks of cassiterite and Pb, Cu, and Ag minerals. Average grade of surface samples was 0.01 g/t Au and 5 g/t Ag. (Empresa Minera Illimani, 1989)
4	Susana prospect	18 51 45	68 49 45	BPV	South end of a large alteration zone in an eroded stratovolcano complex. North-south veins of galena, Cu, Fe, and manganese oxides, and flourite? in silicic, argillic, and propylitic altered andesite and dacite. Altered zones have as much as 0.4 g/t Au and 16 g/t Ag. (MINTEC, oral commun., this study)
5	Paco Kkollu prospect (Cerro Jankho Willkhi)	18 50 30	68 39 00	BPV	Intensely altered rhyolite with disseminated silver mineralization. Values of 100-150 g/t Ag reported. (Pan Andean S.A., oral commun., 1990; this study)
6	Negrillos mine (La Plata)	18 50 26	68 37 42	BPV	Propylitized and argillized tuff and andesite breccia host three veins; two veins are oriented N. 70° W., dip 85° northeast are 300 m long and 1-40 cm wide, the other vein is oriented N. 50° E., dip 85° northeast to vertical, is 1 km long, and as wide as 1 m. Veins are composed of galena, sphalerite, tetrahedrite, pyrrargyrite, polybasite, freibergite, chalcocopyrite, quartz, pyrite, chalcodony, and rhodonite. Oxidized ore extends to 30 m depth and consists of masses and nodules of manganese oxides with cerussite. (Guerra and others, 1965b; Avila-Salinas, 1965; this study)
7	Carangas mine (Orkho Thunko)	18 58 19	68 37 42	BPV	Two mineralized zones in rhyolite porphyry and explosion breccia of the Tertiary Carangas volcanics. N. 65° W. trending veins extend 1.7 km at Cerro San Antonio. Veins at Cerro Espirit Santo strike N. 65° W., are as wide as 12 cm, and occur in a 350 m wide zone. Veins contain cerargyrite, native silver, tennantite, proustite-pyrrargyrite, sphalerite, galena, chalcocopyrite, pyrite, chalcodony, opal, barite, Mn carbonate, siderite, sericite, and kaolinite. Host rhyolite is silicified, argillized, and pyritized. Past production is estimated at 1.5 million tonnes ore, leaving 10,000 t 35-50% Pb slag. Dump samples have as much as 20% Pb and 800 g/t Ag. (Schneider-Scherbina, 1962a; Guerra and others, 1965c; Avila-Salinas, 1965; this study)
8	Todos Santos mine	19 00 48	68 43 19	BPV	Argillized and chloritized rhyolite dome cut by N. 10° E. and N. 80° W. trending veins. Mineralized zone is 4 by 1 km in area and as thick as 50 m. Veins contain tetrahedrite, proustite-pyrrargyrite, stephanite, cerargyrite, miargyrite, argentite, sphalerite, galena, pyrite, quartz, hematite, and manganese oxides. Reserves estimated in 1988 are 1 million tonnes at 70 g/t Ag and 0.07 g/t Au. (McNamee, 1988)

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S.	Long W.	Type	Deposit description and references
9	Candelaria mine	19 37 50	67 41 47	BPV	Vein of Ag oxides, trending N. 55° W. Dip 60° north, 0.8 m wide, cuts vitric tuff. (Sanjines, 1968b)
10	Canguro prospect (Navidad, Cerro Kancha)	19 38 30	67 41 21	BPV	Silicified and brecciated andesite intruded by dacite and rhyolite dikes and cut by veins of galena, sphalerite, pyrite, siderite, quartz, and barite. At Cerro Kancha an extremely silicified, vuggy dacite is associated with zones of pervasive alunitic-advanced argillic and propylitic alteration. (MINTEC, oral commun., 1990; this study)
11	La Deseada mine	19 40 15	67 42 12	BPV	Altered tuff, flows, and volcanic breccia cut by east-west veins, 600-1,000 m long, 1-2.5 m wide, that dip 80° north to vertical. Veins contain galena, sphalerite, malachite, azurite, quartz, barite, and pyrite. Alteration is zoned, top to bottom, from silicification, silicification-argillization, to propylitization. (Medina and others, 1988; Uribe, 1989)
12	Guadalupe mine	19 41 20	67 42 28	BPV	Altered andesite cut by altered and mineralized dacite dikes oriented N. 70-85° E., dip 80° north to vertical, 100 to 1,000 m long, and as wide as 15 m. Dikes have a pervasive silicic overprint on argillic alteration. Andesite is propylitized with local argillic zones. Dikes carry enargite, tetrahedrite, azurite, malachite, quartz, barite, pyrite, and iron oxides. Reserves estimated in 1990 are 2.5 million tonnes at 0.4 g/t Au and 280 g/t Ag. Dumps contain 20,000 t at 0.4 g/t Au and 400 g/t Ag. (Sanjines, 1968a; Medina and others, 1988; Uribe, 1989; this study)
13	Maria Luisa mine	19 42 30	67 42 51	BPV	Weakly silicified Tertiary pyroclastics, flows, and breccias are cut by N. 70-80° W. trending dip 70° north to vertical vein systems as long as 3 km and generally 2 m wide. Veins have alteration halos of intense silicification and argillization that extend out 30 m. Altered wall rocks contain as much as 1% disseminated pyrite and unidentified dark sulfides. Veins contain sphalerite, galena, freibergite, argentite, stephanite, chalcopyrite, quartz, and pyrite. Oxidized ore consists of cerussite, covellite, cerargyrite, jarosite, limonite, and specularite. Reserves in 1982 were 304,500 t at 4.4% Zn, 4.0% Pb, and 267 g/t Ag. (Sanjines, 1968a; Gamboa, 1982; Medina and others, 1988; Stilltoe, 1988; this study)
14	San Miguel and Margarita mines	19 43 54	67 40 40	BPV	San Miguel and Margarita mines work the same vein system that trends N. 45-75° W. or N. 80° E. dips 80° northeast to vertical. Veins are silicified and mineralized shear zones, range from 60 cm to 6 m wide, with ore shoots as long as 70 m. The ore shoots contain about 30% of the ore. Veins cut propylitized Tertiary pyroclastics and have argillic envelopes as wide as 2 m. Veins contain sphalerite, galena, chalcopyrite, quartz, pyrite, and ankerite. Reserves in 1967 were 253,000 t at 7% Pb and 84 g/t Ag. (Sanjines, 1968a; Medina and others, 1988; this study)
15	Hedionda mine (Santa Barbara de Jayula)	21 05 18	67 12 19	BPV	Mineralized brecciated contact between intrusive dacite porphyry and Upper Quehua Formation agglomerate. Alteration is argillic and ore minerals are native silver, galena, sphalerite, and pyrite. Mine was difficult to work because of CO2 gas. (Jacobson and others, 1969; Torrico, 1966)
16	Bertha, Colon, Tesoreira and Trapiche mines	21 06 00	67 32 30	BPV	Veins of galena, argentite, sphalerite, pyrite, arsenopyrite, and siderite cut Upper Quehua Formation pyroclastics and dacite porphyry. Veins oriented north to northeast, oriented northeast dip 40° northwest, and oriented N. 55° E. dip 85° southeast, and are all 10-50 cm wide. (Rocha, 1958; Torrico, 1966; Murillo and others, 1967; Jacobson and others, 1969)
17	Animas mine (Joukia)	21 06 21	67 13 17	BPV	Mineralized breccia pipe cutting Eocene Potoco Formation sandstone and shale. Galena, sphalerite, and pyrite replace brec-

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S.	Long W.	Type	Deposit description and references
					cia matrix. Breccia pipe is 300 m long and 40 m wide, elongated N. 30° W. Breccia fragments and matrix are silicified and argillized. Reserves in 1966 were 131,250 t at 0.98% Pb and 1.0% Zn. (Vedia and Cortez, 1966d; Murillo and others, 1967; Torrico, 1966; Jacobson and others, 1969)
18	Inca and Toldos mines	21 06 40	67 12 20	BPV	Argillized biotite-hornblende dacite porphyry intrudes Eocene Potoco sandstone. Inca mine developed on north to N. 30° W. trending, 10-40 cm wide veins, dipping steeply northeast along contact between intrusive and sandstone. Open pit mine at Toldos works a 440 by 350 m zone, about 100 m deep, of N. 35-40° E. dips 55° northeast to vertical irregular branching veins in rhyodacite intrusive. Major veins exploited in colonial times were as wide as 1 m; veinlets worked today are 1-30 cm wide. Veins composed of native silver, stromeyerite, galena, sphalerite, tetrahedrite, chalcopyrite, pyrrargyrite, polybasite, pyrite, barite, siderite, hematite, quartz, magnetite, and calcite. Reserves in 1990 were 3 million tonnes at 120 g/t Ag. An additional 4 million tonnes were indicated. (Torrico, 1996; Vedia and Cortez, 1966c; Delgadillo, 1967; Gamarra, 1968; Jacobson and others, 1969; Avila-Salinas and others, 1975; this study)
19	Santa Calara mine (Clara)	18 02 26	68 20 10	SHCu	Chalcocite, malachite, azurite, and chrysocolla disseminated in bands 5-10 cm thick hosted by Miocene Turco Formation tuffaceous sandstone and crystal tuff. Reserves in 1969 estimated at 1,960 t at 5.6% Cu. (Murillo and others, 1969; Kuronuma, 1971)
20	Corona de Espana mine	18 07 30	68 09 00	SHCu	Small nodules, dendrites, and bands of native copper in about five mantos, each as much as 38 m long and 1 m thick hosted by Miocene Turco Formation sandstone. Ore is oxidized to cuprite, azurite, malachite, and chrysocolla to a depth of 30-50 m. Ore developed by workings in 1969 estimated at 4,230 t at 3.25% Cu. (Barrios and Prevost, 1970)
21	Cuprita mine	18 15 55	68 03 52	SHCu	Lenses of native copper, cuprite, and other copper oxides, 5-50 m in diameter, spaced 50-300 m apart in a belt 6.5 km long hosted by Miocene Azurita Formation conglomerate and sandstone. Copper oxides found in cement in conglomerate and native copper, partly oxidized, is found in sandstone. Reserves in 1958 estimated at 138,000 t at 2.0% Cu. (Georgi, 1958; Murillo and others, 1969)
22	Cobrizos mine	20 59 37	67 12 36	SHCu	Veinlets of chalcocite, covellite, cuprite, malachite, and azurite, accompanied by veinlets of gypsum, and carbonate, in fractures that follow or cut stratification in Eocene Potoco Formation sandstone. In places sandstone is cemented by calcite, azurite, and iron oxides and cut by calcite veinlets. Copper carbonates occur as mantos in Quaternary Minchin Formation limestone. Workings strongly contaminated by CO2 gas. Reserves in 1957 estimated at 400,000 t at 0.6% Cu and 0.1 g/t Ag. (Lyons, 1957; Servicio Geologico de Bolivia, 1971c)
23	Puntillas mine	21 03 17	67 26 18	SHCu	Veins, 3-28 cm wide, and mantos, as much as 50 m long and 10 cm thick, of brochantite, malachite, tenorite, chrysocolla, chalcodony, and manganese oxide mineralization hosted by Miocene San Vicente Formation conglomerate. Reserves in 1971 estimated at 1,760 t at 7.7% Cu. (Servicio Geologico de Bolivia, 1971II)
24	Ines mine	21 06 27	67 27 10	SHCu	Chalcocite, tenorite, malachite, azurite, and chrysocolla mineralization in a manto hosted by gypsiferous Eocene Potoco Formation sandstone. Reserves in 1970 estimated at 15,100 t at 3.6% Cu. (Servicio Geologico de Bolivia, 1971w)
25	Koholpani mine	21 11 30	67 09 15	SHCu	Chalcocite, malachite, and azurite mineralization in a manto 20-90 cm thick hosted by Oligocene Lower Quehua Formation

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S.	Long W.	Type	Deposit description and references
					calcareous conglomerate. (Servicio Geologico de Bolivia, 1971y)
26	Wara Wara prospect	18 13 30	68 32 30	UA	Altered, eroded Tertiary andesite-dacite stratovolcano. Alteration types include argillic, silicic, seritic and alunitic. Values as much as 0.04 g/t Au, 1 g/t Ag, 230 ppm As, and 18 ppm Sb measured. (MINTEC, oral commun., 1990; this study)
27	Turaquiri mine	18 08 17	68 25 16	UA	Pb-Ag veins in altered and eroded stratovolcano complex. (Ahlfeld, 1954)
28	Copajuyo prospect	18 05 25	68 06 36	UA	Argillized and silicified dacite flows and intrusive overly Tertiary sandstone. Disseminated chalcopyrite, pyrite, specularite, and magnetite found in sandstone. Values as much as 0.5 g/t Au and 15 g/t Ag measured in both dacite and sandstone. (MINTEC, oral commun., 1990)
29	Potosi prospect	18 51 21	68 11 54	UA	Altered volcanics (MINTEC, oral commun., 1990)
30	Cerro Tiquerani Sur occurrence	17 40 18	69 11 40	UA	Altered Tertiary intrusive. (Montes de Oca and others, 1963)
31	Cerro Canasita prospect	17 47 51	69 09 09	UA	Altered Tertiary andesite. (MINTEC, oral commun., 1990)
32	La Riviera prospect	17 49 29	69 07 08	UA	Western zone has propylitized andesite with tetrahedrite, native silver, cuprite, malachite, azurite, and chrysocolla mineralization with as much as 2% Cu and 50 g/t Ag. Eastern zone has argillic and silicic alteration with hypogene alunite and disseminated pyrite in andesite cut by veinlets of chalcedony, jarosite, and limonite with 0.1-0.3 g/t Au, and as much as 20 g/t Ag, 200 ppm As and 80 ppm Sb. Rhyolite dikes and sills intrude andesite. (MINTEC, oral commun., 1990)
33	La Montura prospect	17 57 00	69 14 50	UA	Argillized andesite with traces of Au, as much as 600 ppm As, and less than 1 g/t Ag. (MINTEC, oral commun., 1990)
34	La Escondida prospect (Wacan Kkkollu)	17 47 56	68 53 40	UA	Argillized, silicified and pyritized andesite covering an area of 250,000 km ² . Disseminated iron oxides, opal, pyrite, jarosite, and barite with 2-4 g/t Ag and 0.02-0.03 g/t Au. (Empresa Minera Illimani, 1989)
35	Mantos Negros mine	17 55 22	68 53 44	UA	Irregular deposit of manganese oxides in altered (argillic?) andesite. Nearby zone of hydrothermal breccia with about 2 g/t Ag and 0.02-0.03 g/t Au. (Empresa Minera Illimani, 1989)
36	Blanca Nieves prospect	18 03 08	69 04 02	UA	Altered stratovolcano. (MINTEC, oral commun., 1990)
37	Nevado Sajama prospect	18 06 34	68 52 18	UA	A reported fumarolic-sulfur occurrence is disputed by Ahlfield and Schneider-Scherbina (1964). Sb mineralization is also reported to occur.
38	Caupolican prospect	18 18 00	68 47 43	UA	Altered stratovolcano. (MINTEC, oral commun., 1990)
39	Pacuni prospect	18 18 00	68 49 00	UA	Ag-Pb vein in altered dacite breccia and intrusive in eroded stratovolcano. (MINTEC, oral commun., 1990)
40	Mantos mine (Mantu)	18 53 19	68 47 43	UA	Cu mine in Carangas Formation located on 1:100,000 geologic map. Site visit found only green clay. (Ponce and Avila, 1965; this study)
41	Milenka prospect (Cerro Curumaya)	19 00 51	68 49 47	UA	Silicified, seritized, and argillized hornblende-pyroxene andesite and biotite dacite in eroded core of a stratovolcano. Au values as much as 0.2 g/t and Ag less than 1 g/t found. Possible remnants of solfataric alteration and native sulfur mineralization. (MINTEC, oral commun., 1990; this study)
42	Maria Elena prospect	19 04 18	68 42 14	UA	Opalized subvolcanic dacite intrusive in core of a late Miocene

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S.	Long W.	Type	Deposit description and references
	(Cerro Culebra)				argillized andesite stratovolcano. Northeast-trending silicic sills and dikes also cut andesite. Disseminated pyrite and jarosite mineralization with as much as 0.5 g/t Au and less than 1 g/t Ag. (MINTEC, oral commun., 1990; this study)
43	Anita prospect	19 08 27	68 36 07	UA	Argillized and silicified andesite and dacite cut by north-south and east-west trending fault veins. Values as much as 0.5 g/t Au found. (MINTEC, oral commun., 1990)
44	Casiquira mine	19 10 50	68 27 18	UA	Pb-Ag mine on southwest base of Cerro Pariani stratovolcano located on Villa Vitalina (5936-III) 1:50,000 topographic map.
45	Paola prospect	19 19 00	68 17 45	UA	Altered Quaternary stratovolcano. (MINTEC, oral commun., 1990)
46	Santa Catalina occurrence	19 39 55	67 40 05	UA	Iron oxide bearing hot spring deposits. (This study)
47	Inexa prospect	19 43 16	67 57 01	UA	Intense siliceous and argillic alteration in brecciated hornblende dacite lava flows, with limonite boxwork gossan, intruded by hornblende dacite. (MINTEC, oral commun., 1990; this study)
48	Ano Nuevo prospect	19 43 08	67 49 07	UA	Veins trending N. 30° E. And N. 45-60° W. With silicified alteration envelopes cut propylitized and locally sericitized and argillized Tertiary? andesite and dacite. Veins contain galena and sphalerite and less than 0.05 g/t Au and as much as 87 g/t Ag. Prospect may occur in a window of older Tertiary volcanics and therefore may be a Bolivian polymetallic vein system similar to Mara Luisa to the east. (MINTEC, oral commun., 1990; this study)
49	Cerro Santaile prospect	19 54 51	68 30 40	UA	Silicified zone 10-30 m wide, 1.3 km long, cut by thick quartz-pyrite veins hosted by late Tertiary conglomerate and pyroclastics. Extensive sampling found 0.03-1.6 g/t Au and 0.2-3.5 g/t Ag. (McNamee, 1985b)
50	Chinchihuma (Cerro Chinchihuma) district. (Aguilani, Baitazar, Condor, San Juan, San Salvador mines)	19 59 00	68 21 00	UA	Veins, trending N. 10° W. dip 75-80° southwest and as wide as 20 cm of pyrite, galena, sphalerite, jacobsonite, cuprite, malachite, cassiterite, and specularite cut late Miocene hornblende dacite intruded by rhyolite. Mineralized zones are brecciated. Alteration consists of silicification and argillization. (Sanjines, 1968b; McNamee, 1985a; this study)
51	Cerro Puquisa occurrence	20 04 15	68 22 00	UA	Chrysocolla and malachite fill vesicles in andesite in a zone 25 m wide. (This study)
52	Cerro Panizo prospect	20 05 04	68 29 43	UA	Altered stratovolcano. (MINTEC, oral commun., 1990)
53	Cerro Pescado occurrence	20 09 00	67 49 00	UA	Chrysocolla and malachite fill vesicles in andesite in a zone 25 m wide. (This study)
54	Veta Kkollu mine	20 19 15	67 55 34	UA	Cu mine in Tertiary Yonza Formation located on Cerro Pabellon (6033-III) 1:50,000 topographic map.
55	Mac I prospect	20 38 34	68 25 03	UA	Altered Pliocene stratovolcano. (MINTEC, oral commun., 1990)
56	Cerro Colorado mine	20 33 57	67 59 19	UA	Veins less than 3 cm wide of malachite and azurite in fractured Tertiary Yonza Formation basalt (Bustillos, 1996)
57	Cerro Pabellon deposit	20 37 44	67 58 21	UA	Stocwork of specularite veins in 800m diameter zone in Tertiary sediments intruded by andesite. Veins vary trace amount of Sn, Co, Cu, Ga, Mo, Ni, and V. (Bustillos, 1966)
58	Solucion mine (Mahi)	20 39 52	67 45 01	UA	A N. 10° W. Vein 20-30 cm wide, cuts dacite. Vein contains galena, sphalerite, limonite, and hematite. Reserves in 1971 esti-

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

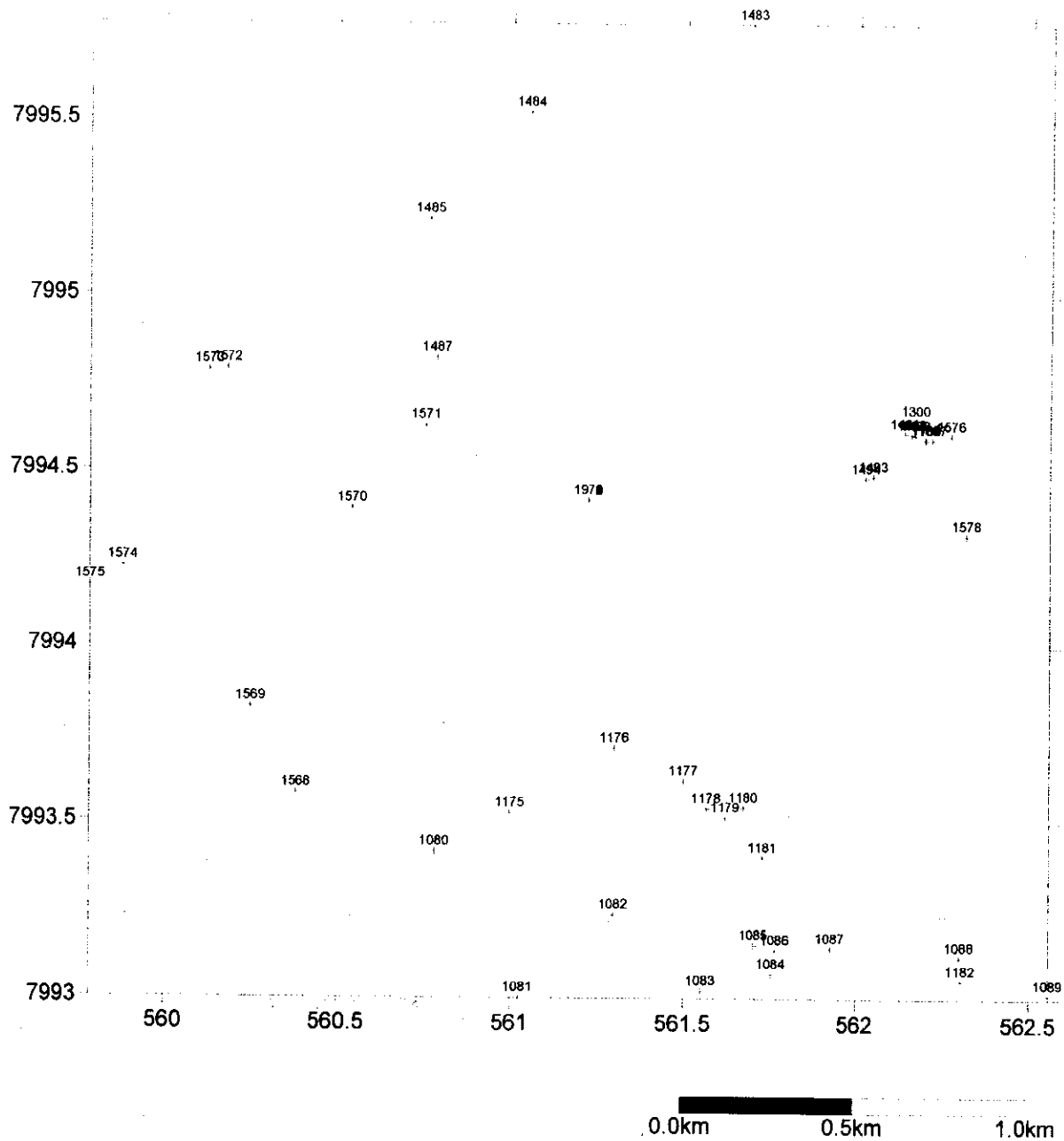
No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
				mated as 3,000 t at 1.4% Pb and 1.4% Zn. Values in Ag as much as 24 g/t. (Servicio Geologico de Bolivia, 1971rr)
59	Plasmar mine	20-38-58 , 67 38 41	UA	Rhyodacite cut by veins of galena, pyrite, and hematite. Workings exploit an ore shoot 1-3 m wide. (Ballvian and Vargas, 1971)
60	Millunu occurrence	20 51 45 , 68 33 15	UA	Large area of iron oxide bearing silicified andesite that extends across the border from Chile. Samples taken on the Chilean side of the border have as much as 93 ppm Cu, 29 ppm Mo, 117 ppm Pb, 10 ppm Zn, 0.4 g/t Ag, and less than 20 ppb Au. (Vergara and Thomas, 1984)
61	Cerro Tomasamil prospect	21 17 00 , 67 57 40	UA	Veins trend east-west dip 80° north, as wide as 5 m, and trend N 10° E., 10-20 cm wide, cut altered hornblende andesite. Veins contain iron oxides, sericite, hematite, and clay. A separate brecciated zone is cemented by magnetite, sphalerite, and specularite. Alteration minerals are sericite, hematite, limonite, and clay. (Sanjines and others, 1986b)
62	Cuidado mine	21 15 30 , 67 42 30	UA	Vertical N. 45° W. Trending breccia zones cut argillized, sericitized, and silicified dacite porphyry. Mineralized and altered zone s 12 km2 in area. Breccia contains quartz, pyrite, and barite and has values of as much as 0.7% Sb and 150 g/t Ag.(Officier 1917a; this study)
63	Eskapa mine	21 13 35 , 67 41 20	UA	Vertical N. 10° W. trending veins cut brecciated biotite dacite porphyry dome. Veins contain tenorite, chrysocolla, malachite, and calcite with as much as 30 g/t Ag and 0.3% Pb. (Officier, 1917a; this study)

Legend

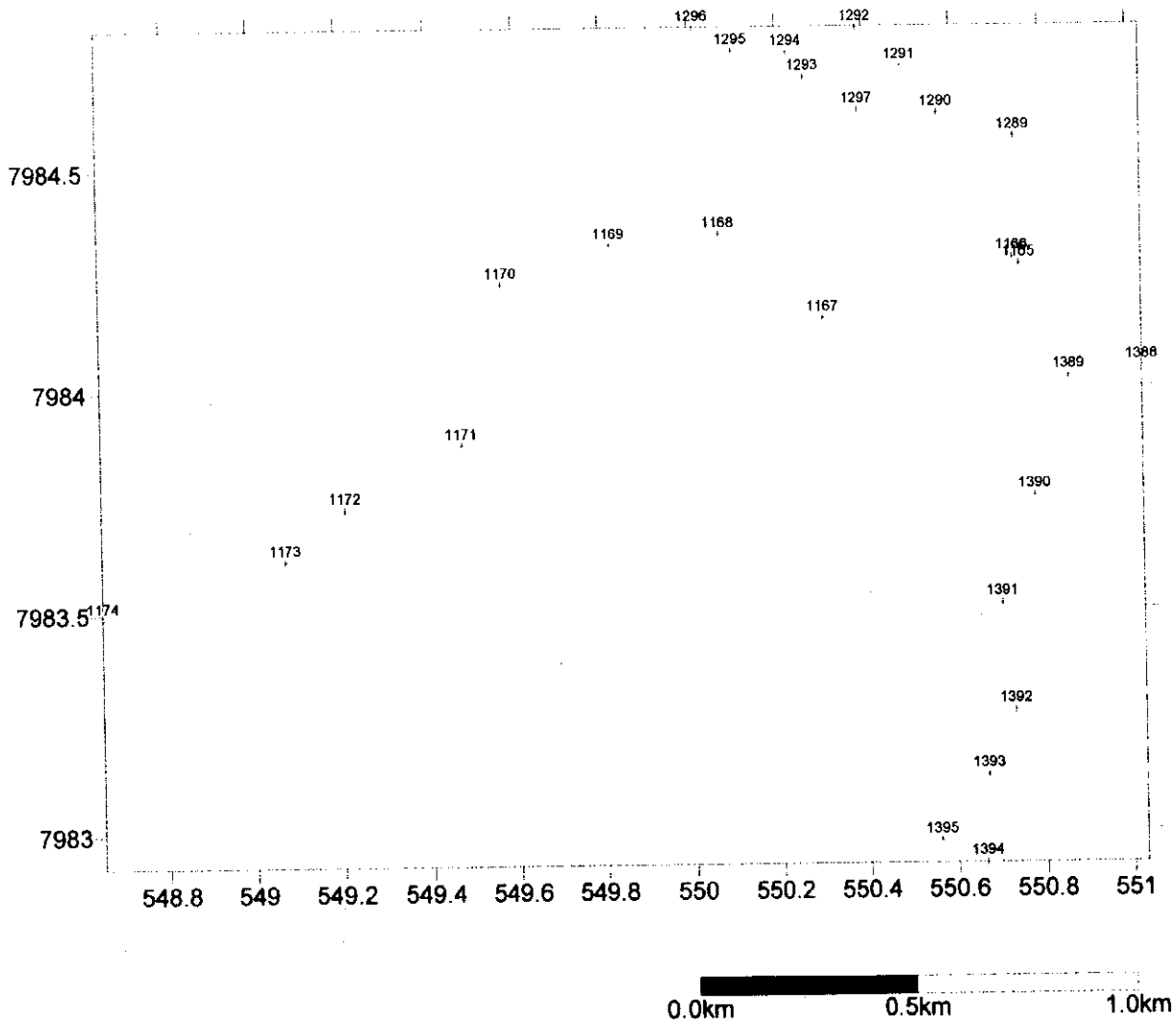
Ba-Cu: Basaltic Copper Deposits
 BPV: Bolivian Polymetallic Vein Deposits
 SHCu: Sediment-hosted Copper Deposits
 UA: Unassigned Deposits

Appendix 8
Location Map of Samples

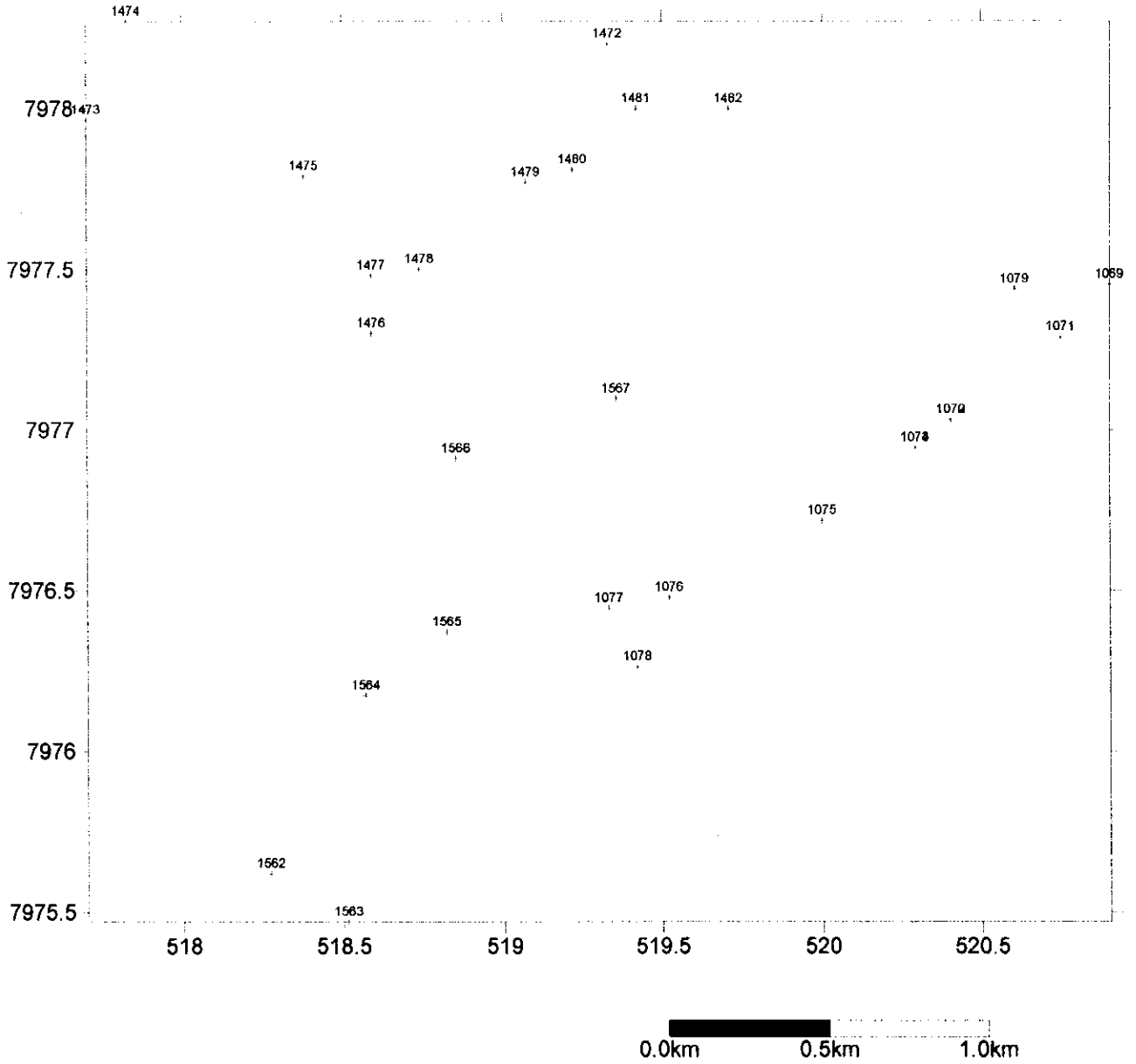
Turaquiri



Asu Asuni

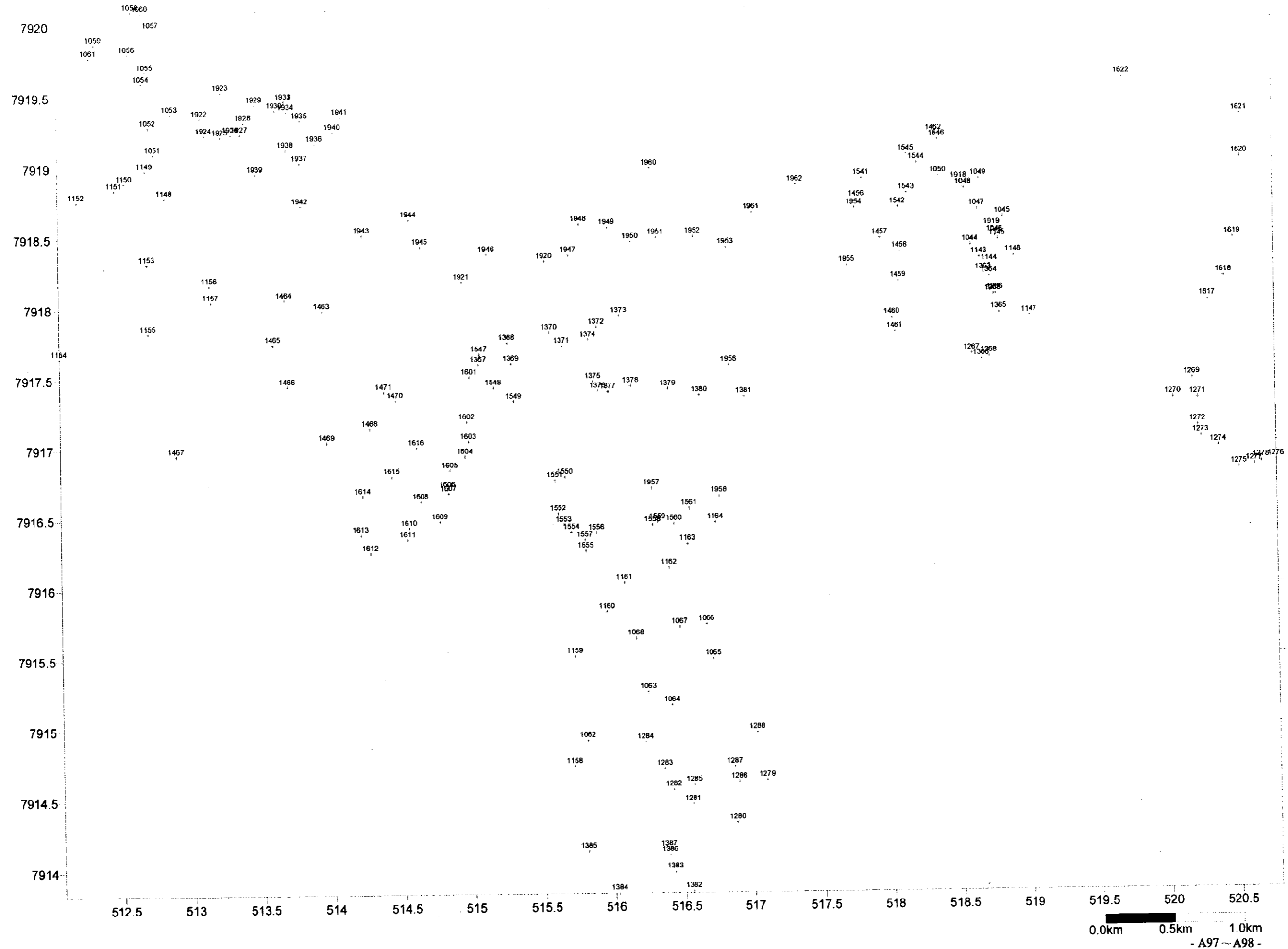


Chullcani



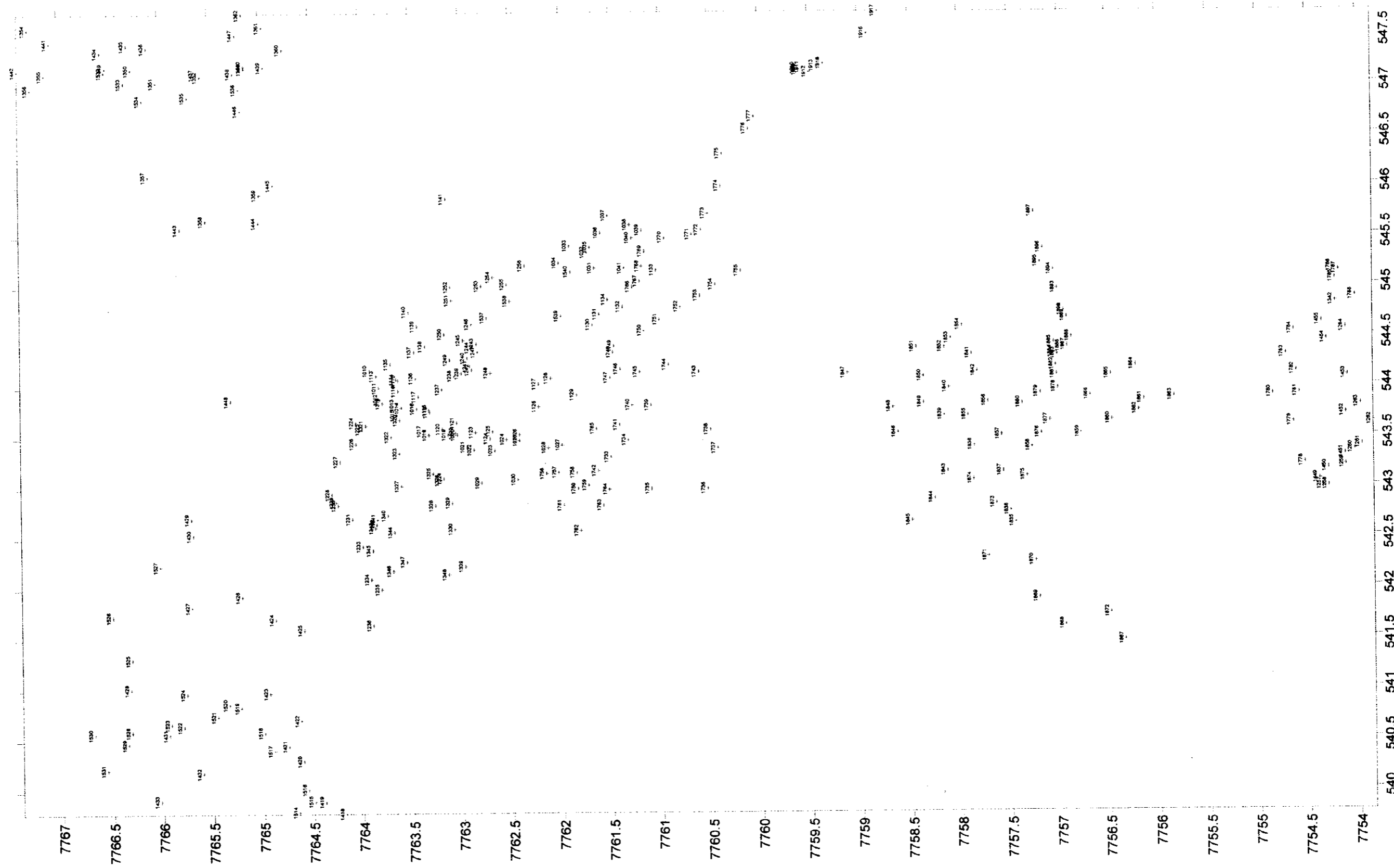
.....

Sonia Susana

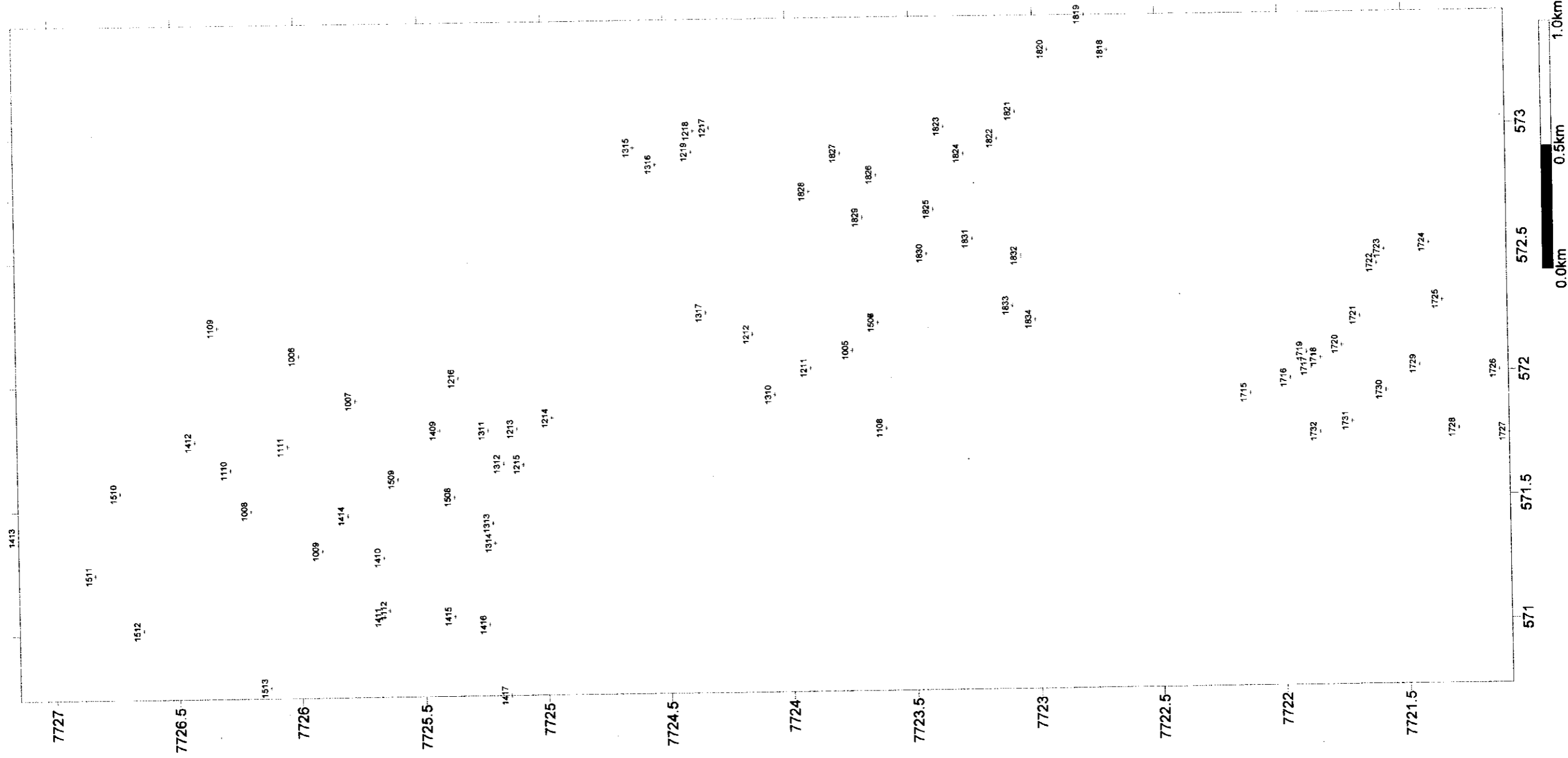


0.0km 0.5km 1.0km
- A97 ~ A98 -

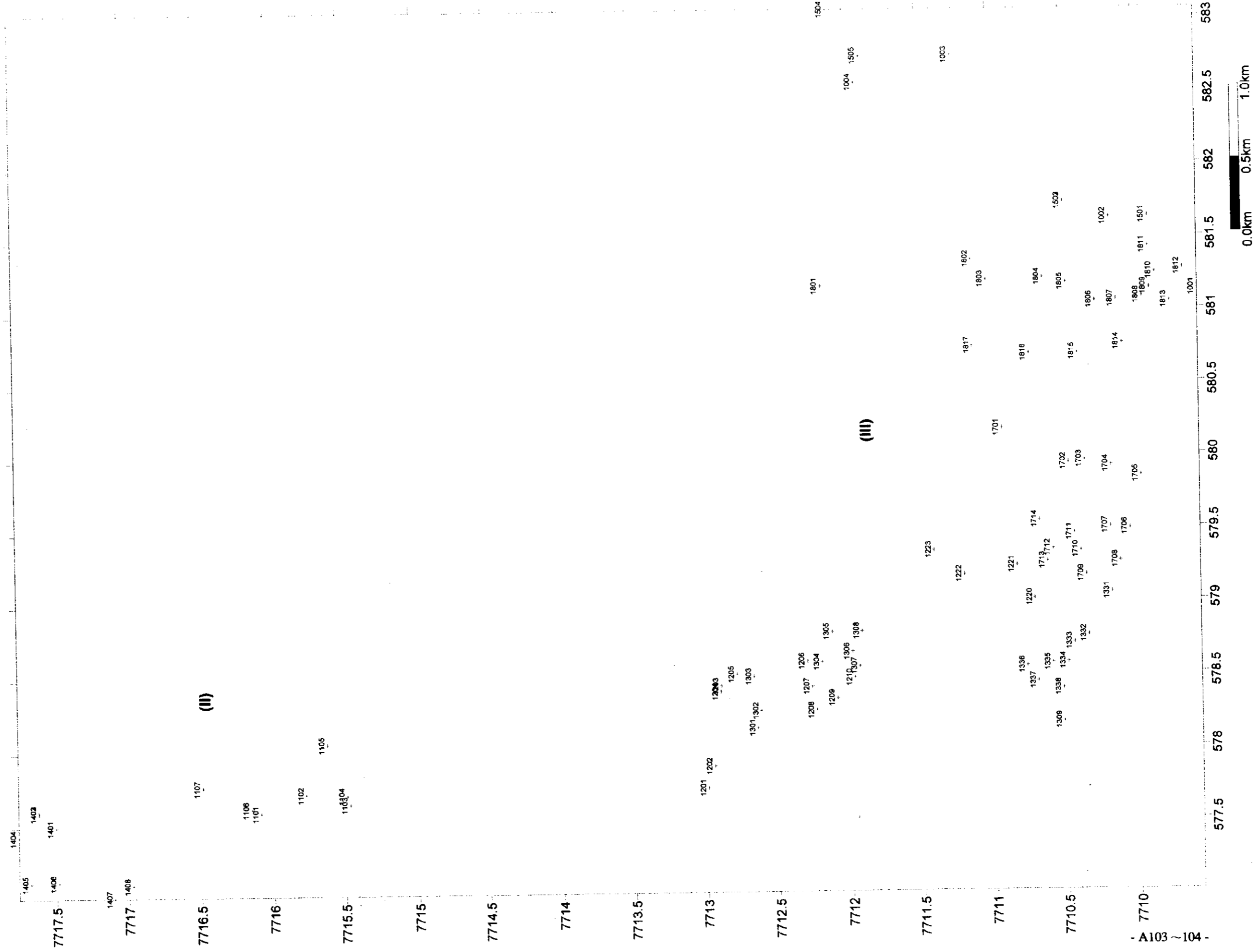
Calorno



Lomallena(I)



Lomallena (II) (III)



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Sample Location Map
(Calamo District)

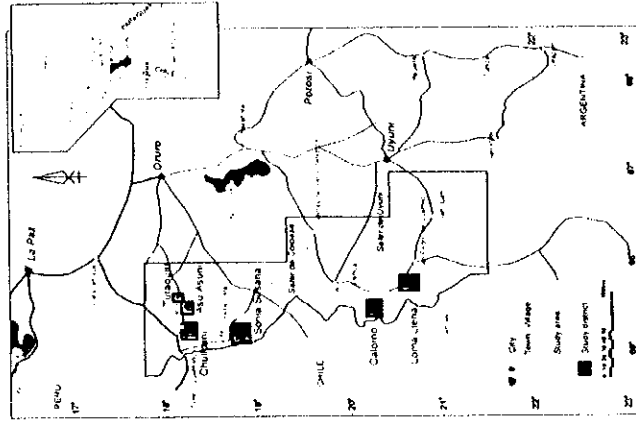
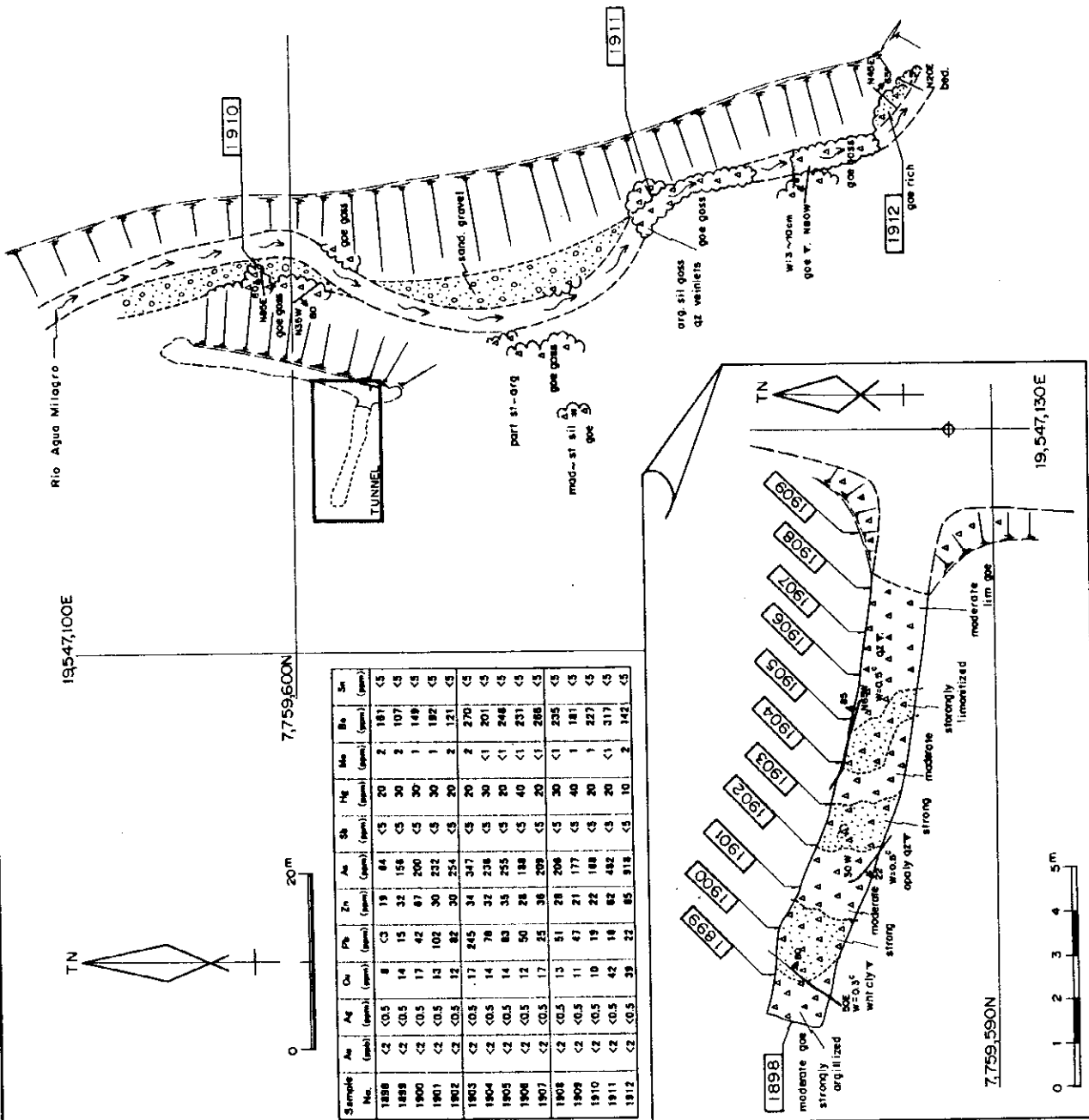
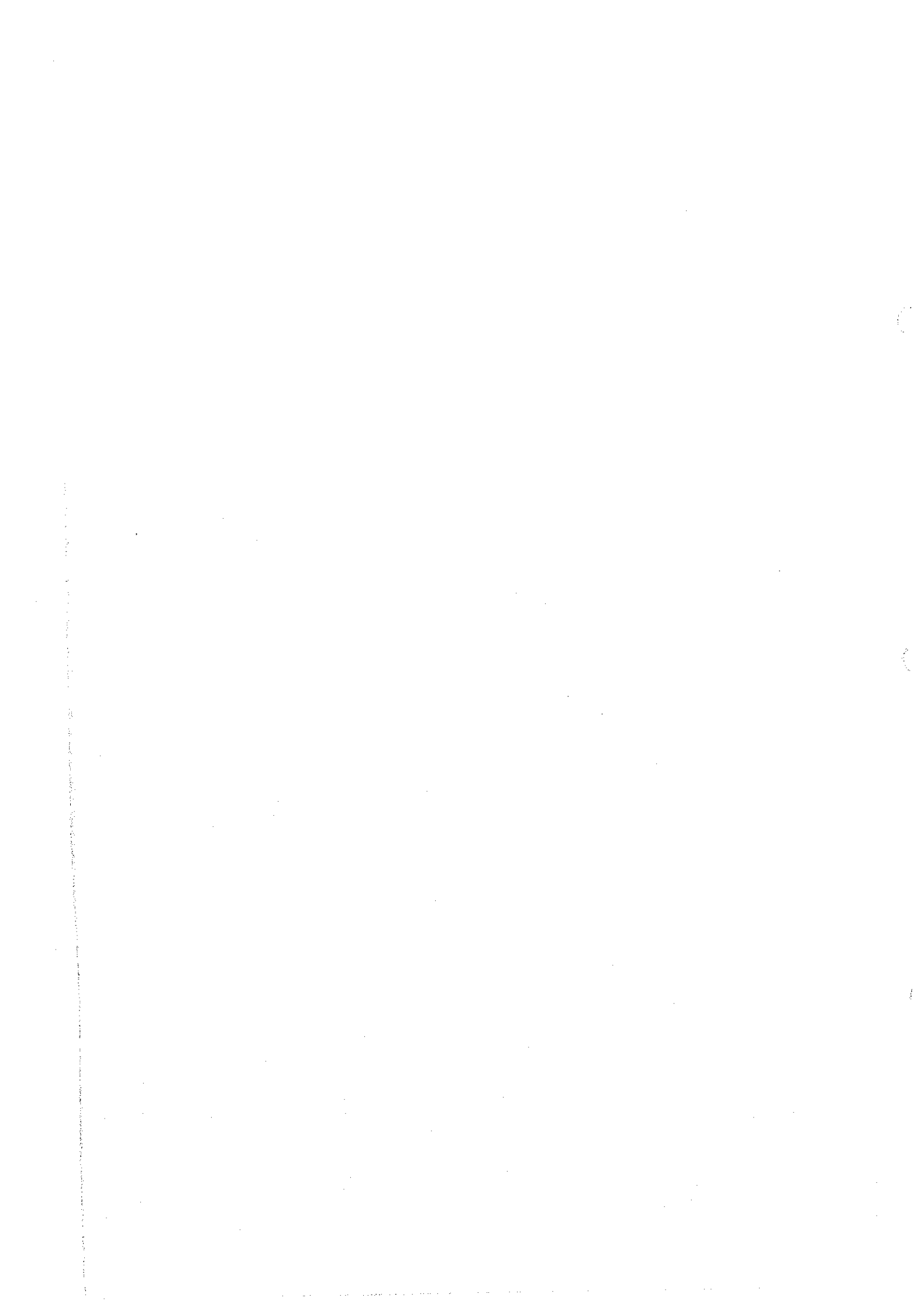


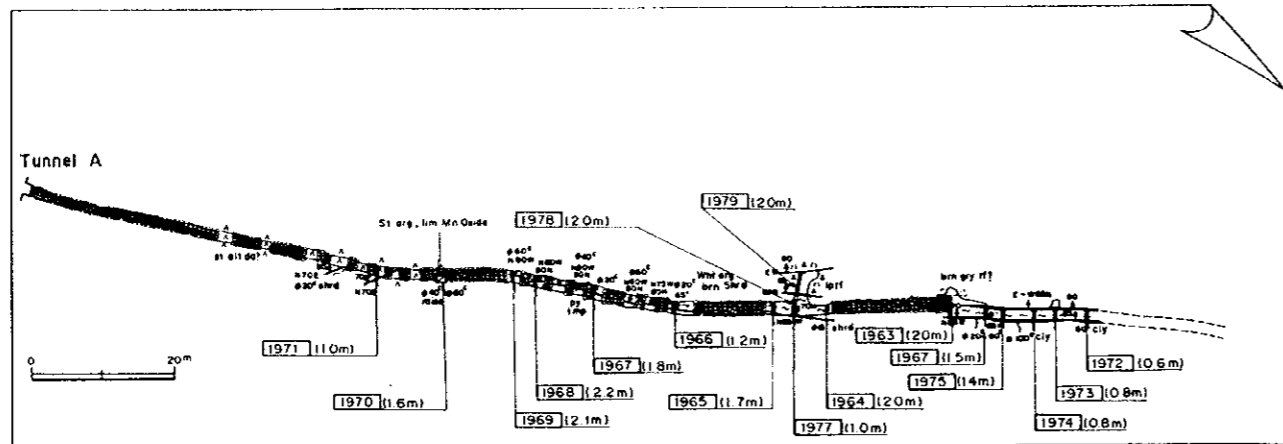
Fig. 1-1 Location Map of the Survey Area

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METAL MINING AGENCY OF JAPAN
MARCH 2000

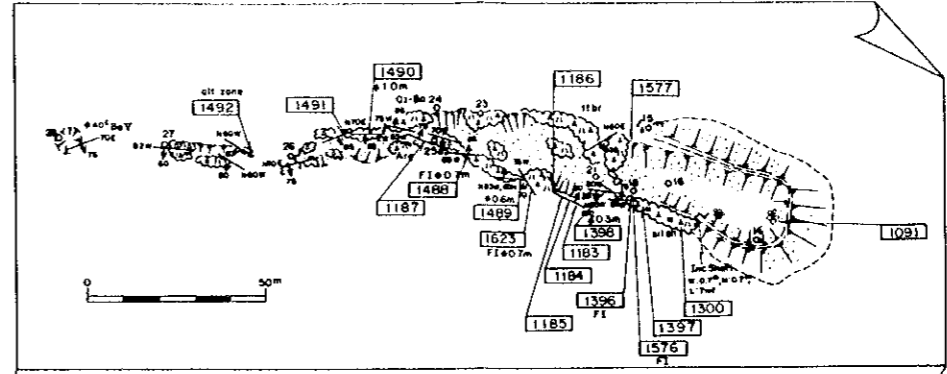


Sample No.	As	Ag	Au	Cu	Pb	Zn	Al	Si	Mg	Fe	Mn	Ba	Sr
1898	<2	<0.5	8	3	19	84	<5	181	<5	20	2	107	<5
1899	<2	<0.5	14	15	32	158	<5	30	30	1	149	<5	<5
1900	<2	<0.5	17	42	87	200	<5	30	30	1	182	<5	<5
1901	<2	<0.5	13	102	30	232	<5	30	30	1	182	<5	<5
1902	<2	<0.5	12	82	30	224	<5	20	2	121	<5	<5	<5
1903	<2	<0.5	17	245	34	347	<5	20	2	270	<5	<5	<5
1904	<2	<0.5	14	78	32	238	<5	30	<1	201	<5	<5	<5
1905	<2	<0.5	14	83	35	255	<5	20	<1	248	<5	<5	<5
1906	<2	<0.5	12	50	28	188	<5	40	<1	231	<5	<5	<5
1907	<2	<0.5	17	25	38	209	<5	20	<1	286	<5	<5	<5
1908	<2	<0.5	13	51	21	206	<5	30	<1	235	<5	<5	<5
1909	<2	<0.5	11	47	21	177	<5	40	1	181	<5	<5	<5
1910	<2	<0.5	10	19	22	188	<5	20	1	227	<5	<5	<5
1911	<2	<0.5	42	18	82	482	<5	20	<1	317	<5	<5	<5
1912	<2	<0.5	39	22	85	918	<5	10	2	142	<5	<5	<5

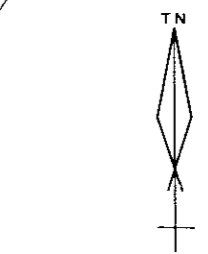
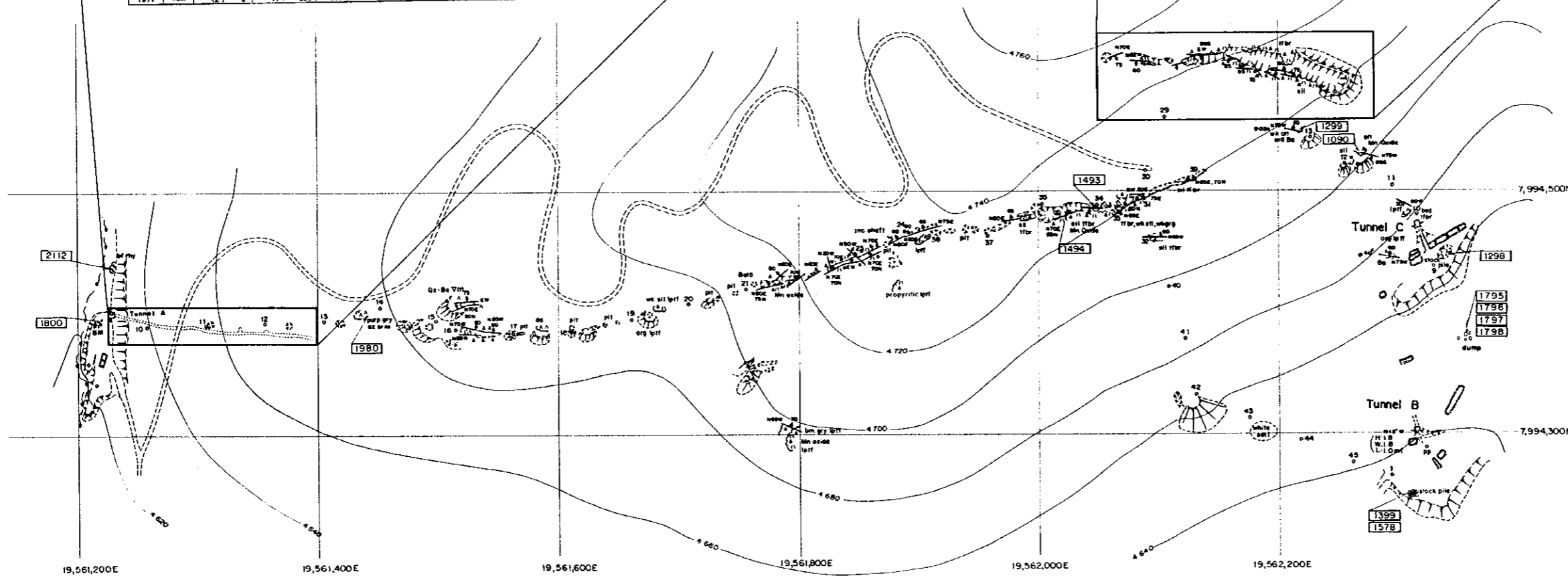




Sample No.	Av	Ag	Cu	Pb	Zn	As	Sb	Hg	Mn	Ba	Sr
1972 (0.6m)	<2	12	10	2,135	1,115	47	<5	410	2	334	<5
1973 (0.6m)	2	3	78	5,501	1,308	7	<5	400	<1	113	<5
1974 (0.6m)	<2	1	34	2,519	1,848	79	<5	150	<1	224	<5
1975 (1.4m)	<2	56	148	8,035	4,538	30	<5	480	3	134	<5
1978 (1.5m)	<2	7	174	11,300	2,825	44	<5	880	1	138	<5
1963 (2.0m)	2	13	21	9,500	4,343	151	<5	490	3	39	<5
1964 (2.0m)	5	25	43	3,454	3,828	115	<5	460	<1	472	<5
1977 (1.0m)	<2	9	12	3,134	1,047	58	<5	530	4	86	<5
1978 (2.0m)	<2	<0.5	4	140	1,852	<5	<5	100	<1	412	<5
1979 (2.0m)	<2	1	4	101	1,217	<5	<5	270	2	251	<5
1965 (1.7m)	31	140	287	15,200	15,638	288	13	1,240	3	23	<5
1966 (1.2m)	31	24	55	2,904	7,801	858	11	1,870	<1	72	<5
1967 (1.8m)	2	45	128	1,325	2,243	121	<5	890	2	28	<5
1968 (2.2m)	8	39	85	2,281	4,528	258	8	540	2	21	<5
1969 (2.1m)	8	82	249	3,150	4,373	81	<5	1,100	1	30	<5
1970 (1.4m)	2	8	31	580	3,021	81	<5	290	<1	97	<5
1971 (1.8m)	<2	2	11	228	837	38	<5	170	2	357	<5



Sample No.	Av	Ag	Cu	Pb	Zn	As	Sb	Hg	Mn	Ba	Sr
1090	13	118	18	7,515	2,249	<5	<5	490	3	1,278	<5
1091	46	48	5	4,788	1,118	385	<5	80	3	1,777	<5
1183	2	437	73	7,412	209	8	<5	400	8	2,384	<5
1184	3	18	13	3,375	572	52	<5	130	1	4,008	<5
1185	2	124	29	1,958	518	24	<5	130	7	3,958	<5
1186	2	295	29	5,437	629	86	<5	270	7	4,786	<5
1187	4	153	240	2,740	1,149	21	<5	740	7	5,590	<5
1298	136	890	213	88,000	1,818	71	<5	320	8	55	<5
1299	10	315	535	2,385	5,757	241	15	2,420	2	3,350	<5
1300	<2	17	10	2,185	828	23	<5	70	8	3,225	<5
1398	3	877	125	4,400	2,834	22	<5	360	2	8,585	<5
1397	<2	4	4	213	1,087	51	<5	280	<1	4,048	<5
1398	<2	240	82	5,198	811	33	<5	180	2	1,406	<5
1399	78	648	2,063	13,400	2,828	100	<5	270	5	78	<5
1488	8	181	94	853	484	8	<5	50	8	3,787	<5
1489	<2	251	159	2,545	898	12	<5	70	2	5,189	<5
1490	7	398	75	8,198	1,058	13	<5	110	8	4,721	<5
1491	20	229	24	1,383	1,483	88	<5	80	4	3,715	<5
1492	24	287	81	25,000	4,504	81	<5	80	4	5,888	<5
1493	<2	7	8	82	3,201	<5	<5	20	1	3,348	<5
1494	<2	8	4	118	2,215	<5	<5	110	2	922	<5
1578	<2	585	14	650	331	6	<5	510	8	3,481	<5
1577	<2	13	44	825	3,400	49	<5	180	<1	4,888	<5
1578	3	17	80	875	851	288	<5	110	7	89	<5



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Sample Location Map
(Turaquiri District)

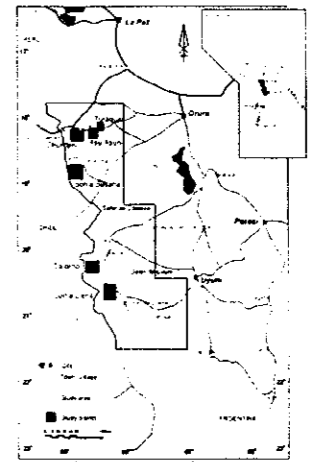
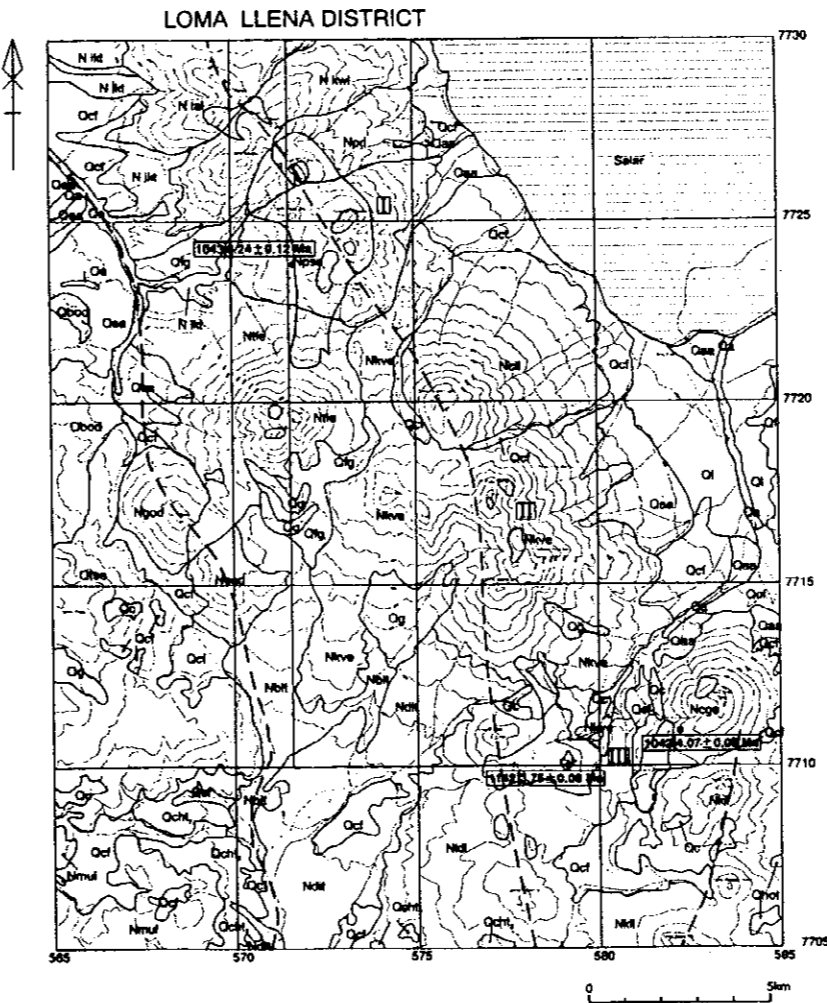
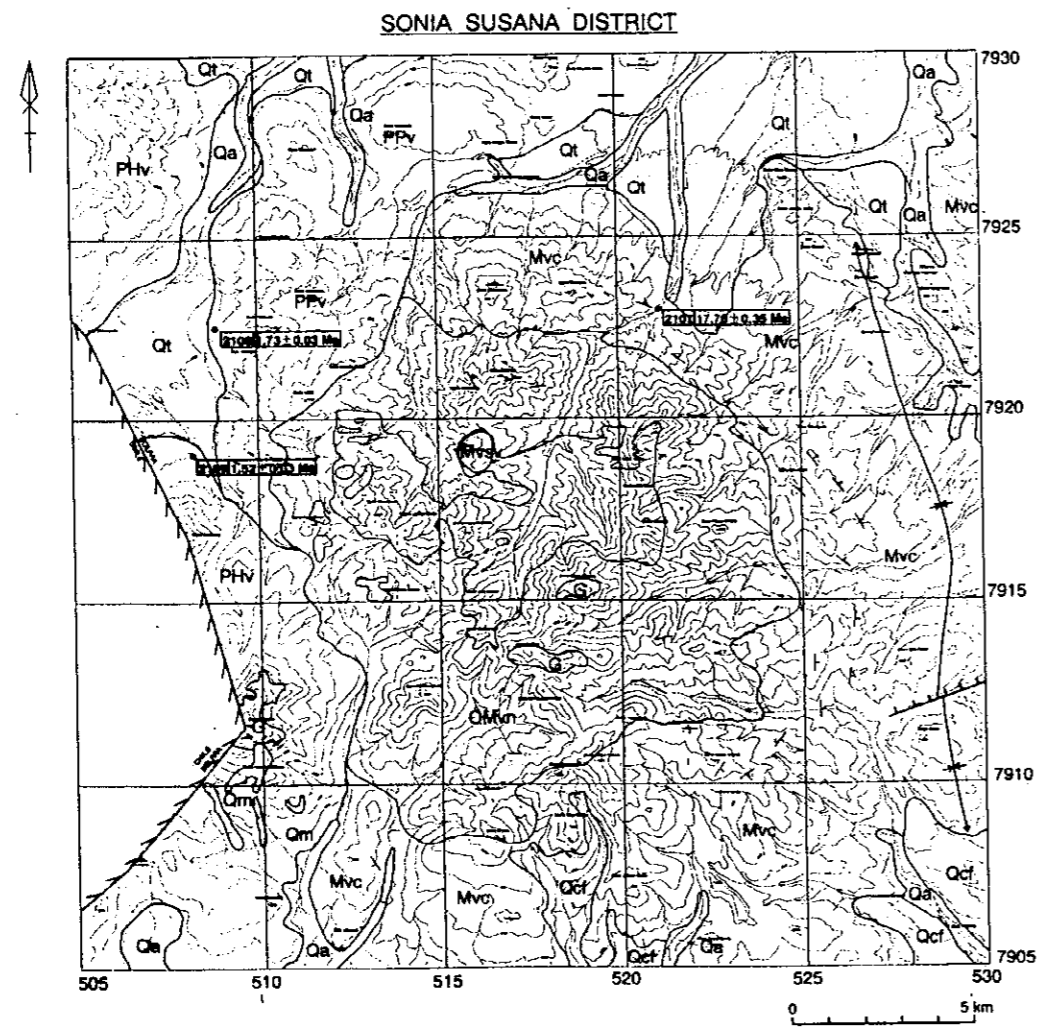
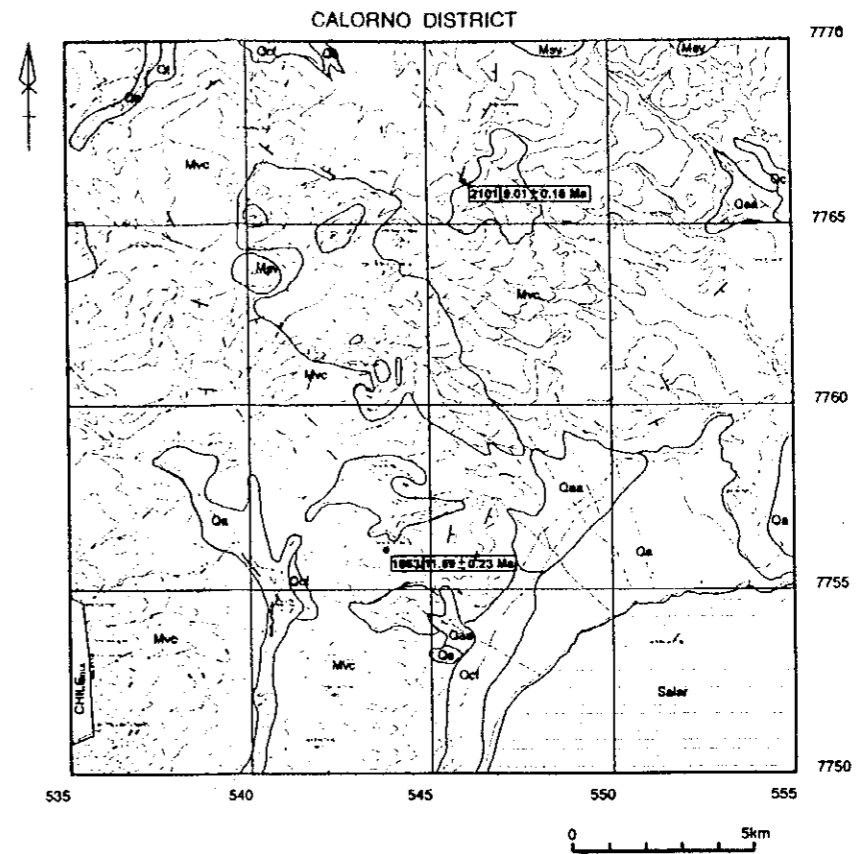
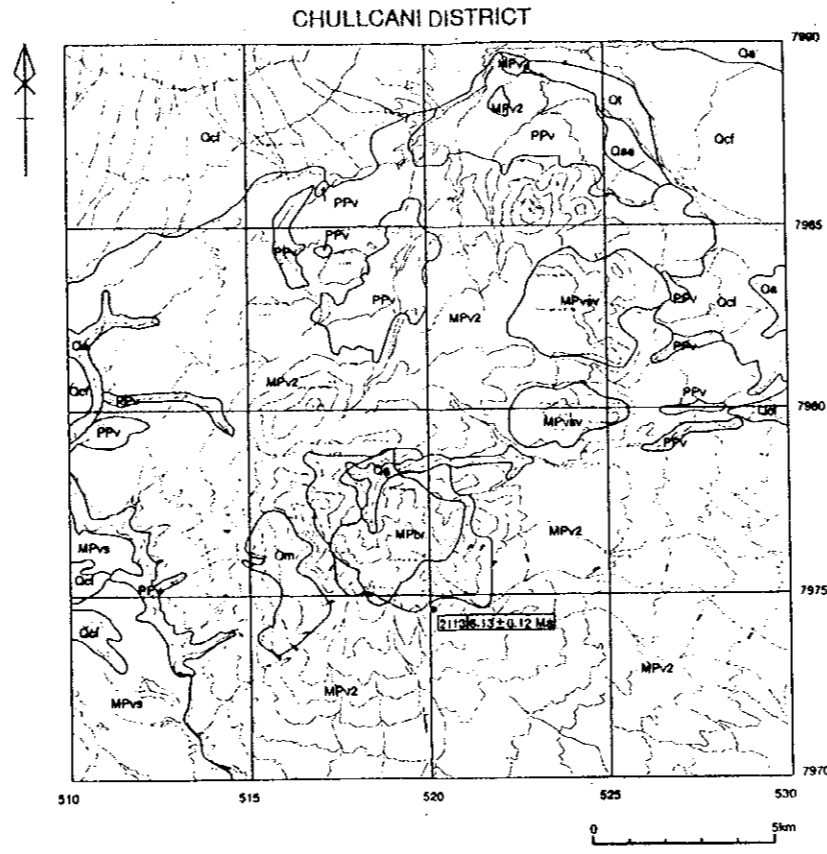
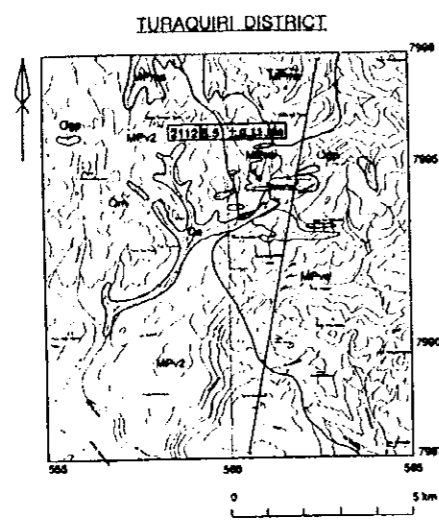


Fig. 1.1 Location Map of the Survey Area
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METAL MINING AGENCY OF JAPAN
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THE MINERAL EXPLORATION
IN THE ORURO-UYUNI AREA
REPUBLIC OF BOLIVIA

Location Map
Of
Isotopic Dating Samples

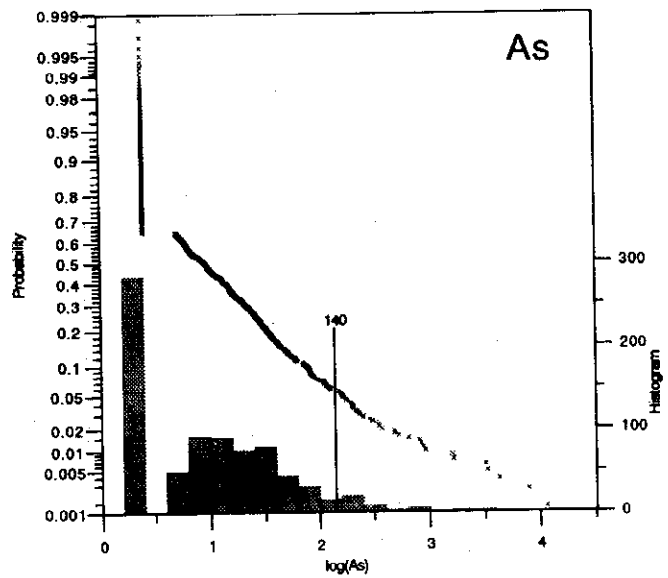
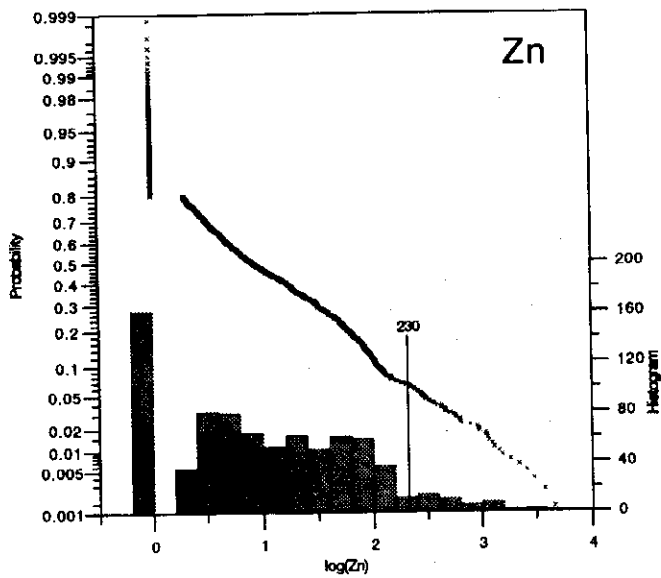
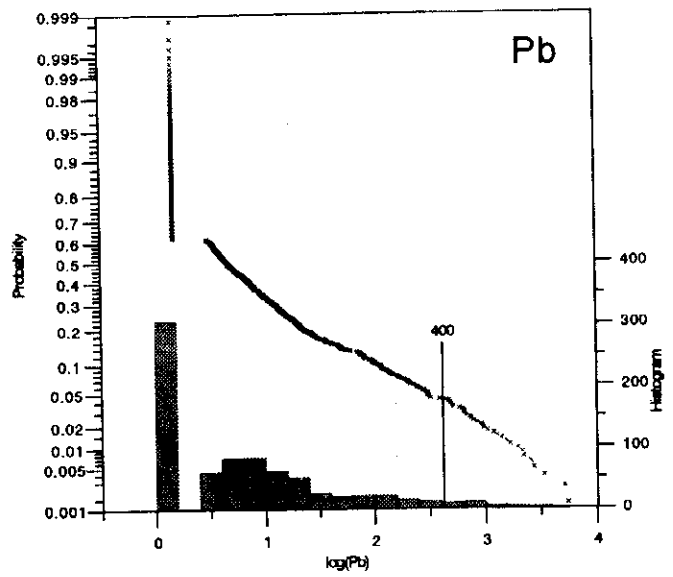
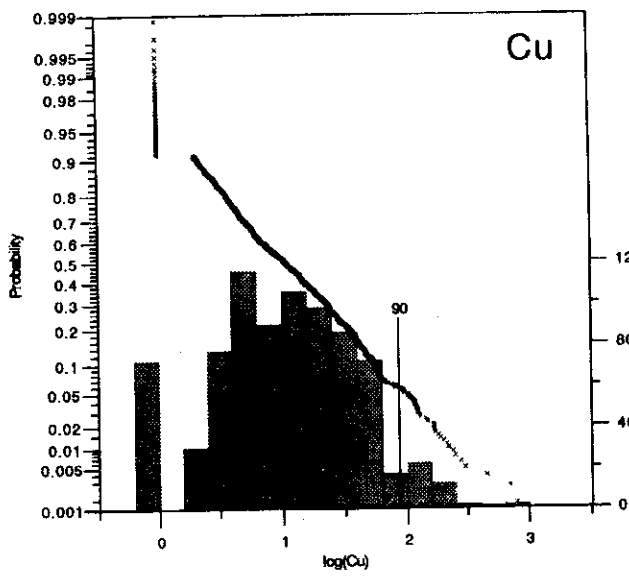
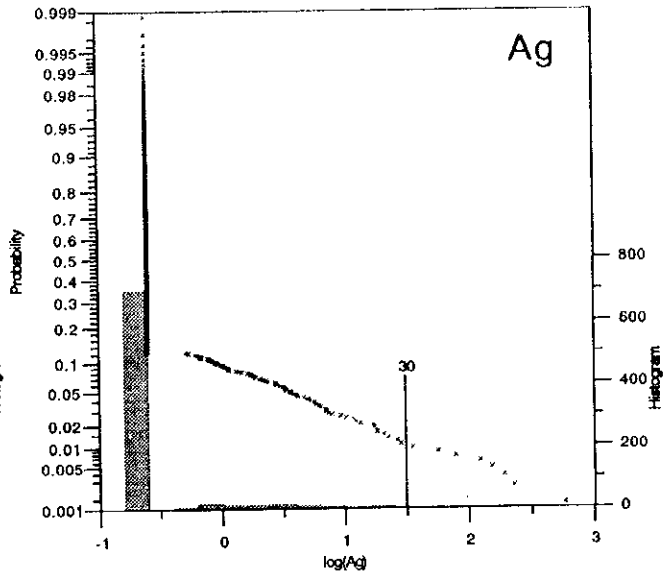
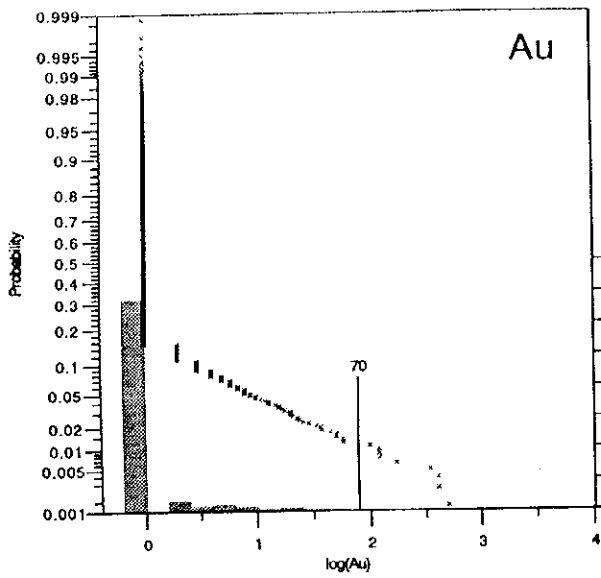
1221 : 5.51 ± 0.11 Ma : Sample No. & Radiometric Age

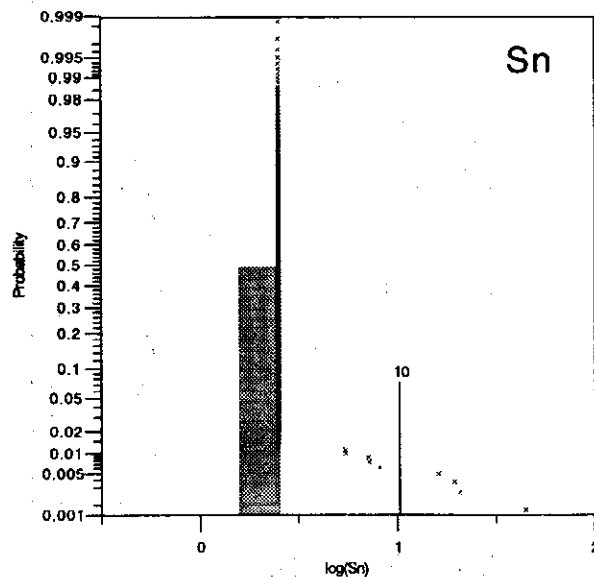
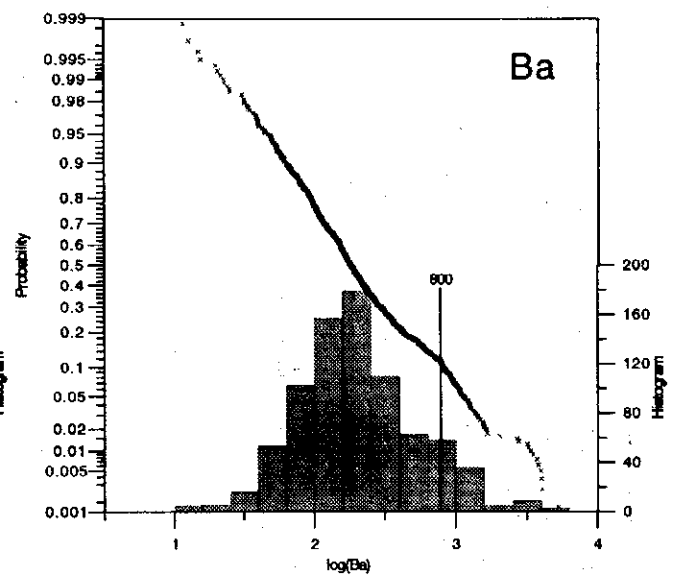
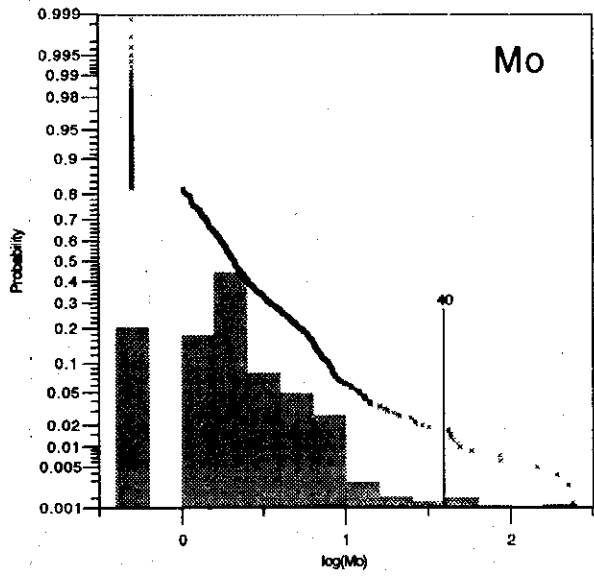
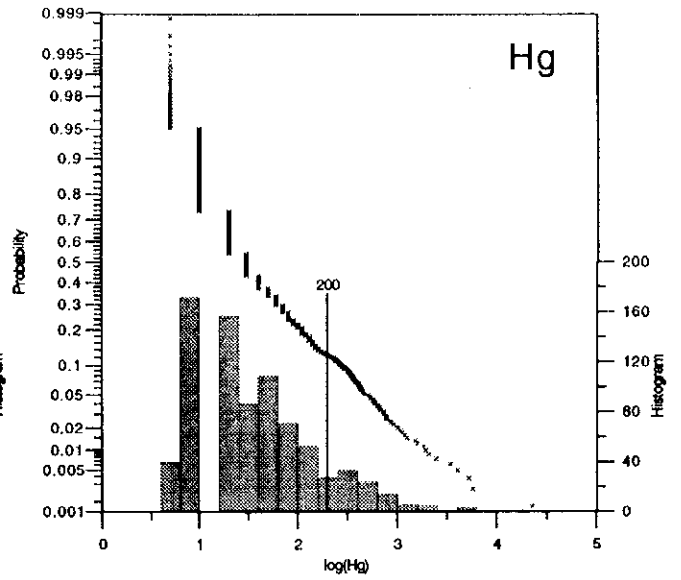
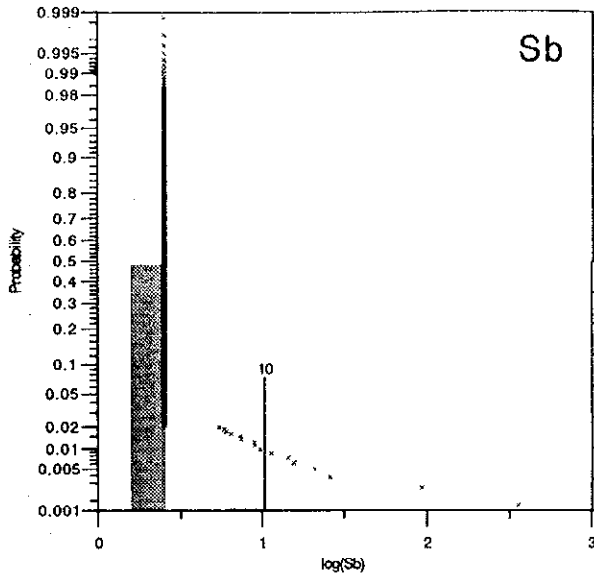
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Appendix 9
Assay Results of Rock Samples

District Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
Turaquiri 46	min	<2	<0.5	<2	<3	16	<5	<5	<10	<1	40	<5
	max	20	583	790	5,534	3,801	650	6	770	8	5,260	<5
	ave	<2	34	41	701	596	36	<5	178	2	1,064	<5
Asu Asuni 27	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	114	<5
	max	3	1	51	28	433	39	<5	100	12	1,191	<5
	ave	<2	<0.5	12	5	31	<5	<5	27	2	300	<5
Chullcani 28	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	108	<5
	max	408	4	124	2,569	75	373	10	860	58	3,165	<5
	ave	38	1	21	121	20	29	<5	143	6	715	<5
Sonia Susana 194	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	15	<5
	max	504	57	700	1,672	4,660	3,210	93	22,230	238	2,690	44
	ave	12	2	43	121	141	40	3	170	7	272	<5
Calorno 343	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	11	<5
	max	12	2	190	289	224	11,388	357	5,260	191	1,678	7
	ave	<2	<0.5	18	10	10	135	<5	154	5	288	<5
Loma Llena 165	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	12	<5
	max	11	1	96	98	164	152	<5	5,750	86	1,494	16
	ave	<2	<0.5	18	6	18	12	<5	139	4	296	<5
Total 803	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	11	<5
	max	504	583	790	5,534	4,660	11,388	357	22,230	238	5,260	44
	ave	5	3	25	80	78	73	3	152	5	346	<5
	thr	70	30	90	400	230	140	10	200	40	800	10

Appendix 9 Summary of the results of the Geochemical Analysis





Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1	1001 IAR	<2	<0.5	3	<3	13	<5	<5	10	4	151	<5
2	1002 IAR	2	<0.5	39	9	6	13	<5	70	6	153	<5
3	1003 IAR	<2	<0.5	14	<3	48	<5	<5	40	<1	155	<5
4	1004 IAR	<2	<0.5	2	<3	8	<5	<5	10	2	1,070	<5
5	1005 IAR	<2	<0.5	4	<3	4	6	<5	40	2	1,027	<5
6	1006 IAR	<2	<0.5	28	<3	5	30	<5	40	2	192	<5
7	1007 IAR	<2	<0.5	8	31	5	26	<5	20	6	488	<5
8	1008 IAR	<2	<0.5	<2	<3	<2	<5	<5	70	2	57	<5
9	1009 IAR	<2	<0.5	<2	48	<2	<5	<5	10	3	1,437	<5
10	1010 IAR	<2	<0.5	4	<3	<2	9	<5	40	1	79	<5
11	1011 IAR	<2	<0.5	7	<3	3	8	<5	150	3	99	<5
12	1012 IAR	<2	<0.5	6	7	3	9	<5	10	14	257	<5
13	1013 IAR	3	<0.5	2	19	<2	19	<5	<10	7	155	<5
14	1014 IAR	2	<0.5	20	9	2	16	<5	350	6	122	<5
15	1015 IAR	<2	<0.5	3	7	3	10	<5	30	3	114	<5
16	1016 IAR	<2	<0.5	<2	9	<2	55	<5	10	<1	48	<5
17	1017 IAR	<2	<0.5	5	<3	2	20	<5	10	10	91	<5
18	1018 IAR	<2	<0.5	8	5	2	9	<5	10	2	40	<5
19	1019 IAR	<2	<0.5	4	13	2	31	<5	60	2	78	<5
20	1020 IAR	<2	<0.5	8	36	3	80	<5	150	3	80	<5
21	1021 IAR	<2	<0.5	12	<3	<2	17	<5	40	6	25	<5
22	1022 IAR	2	<0.5	23	<3	<2	21	<5	400	6	144	<5
23	1023 IAR	2	<0.5	10	10	<2	13	<5	4,040	6	172	<5
24	1024 IAR	<2	<0.5	3	<3	<2	<5	<5	50	9	245	<5
25	1025 IAR	<2	<0.5	10	<3	<2	<5	<5	410	8	996	<5
26	1026 IAR	12	<0.5	8	<3	<2	20	<5	70	25	541	<5
27	1027 IAR	<2	<0.5	6	<3	3	<5	<5	10	9	962	<5
28	1028 IAR	<2	<0.5	4	<3	2	<5	<5	20	4	1,548	<5
29	1029 IAR	<2	<0.5	3	<3	<2	<5	<5	30	8	865	<5
30	1030 IAR	<2	<0.5	14	8	<2	23	<5	2,060	9	261	<5
31	1031 IAR	<2	<0.5	<2	<3	<2	<5	<5	20	3	41	<5
32	1032 IAR	<2	<0.5	43	<3	<2	6	<5	<10	2	113	<5
33	1033 IAR	3	<0.5	7	<3	<2	10	<5	360	2	156	<5
34	1034 IAR	<2	<0.5	4	<3	<2	<5	<5	80	2	11	<5
35	1035 IAR	<2	<0.5	<2	<3	<2	<5	<5	<10	2	23	<5
36	1036 IAR	2	<0.5	12	5	2	<5	<5	150	5	439	<5
37	1037 IAR	<2	<0.5	2	<3	<2	<5	<5	80	2	281	<5
38	1038 IAR	<2	<0.5	36	5	2	18	<5	200	1	141	<5
39	1039 IAR	<2	<0.5	11	6	<2	<5	<5	100	2	210	<5
40	1040 IAR	<2	<0.5	31	4	3	20	<5	20	2	116	<5
41	1041 IAR	<2	<0.5	4	<3	<2	58	<5	60	3	40	<5
42	1044 IAR	4	2.2	302	116	259	6	<5	30	2	153	<5
43	1045 IAR	21	3.6	213	732	458	34	<5	70	5	1,005	<5
44	1046 IAR	6	1.5	453	648	1,263	10	<5	30	2	468	<5
45	1047 IAR	3	2.7	147	245	4,660	11	<5	20	<1	49	<5
46	1048 IAR	8	0.9	5	37	14	7	<5	30	3	366	<5
47	1049 IAR	29	5.6	128	755	556	60	<5	30	2	39	<5
48	1050 IAR	13	3.9	9	489	14	31	<5	40	5	159	<5
49	1051 IAR	<2	<0.5	3	13	8	5	<5	10	1	67	<5
50	1052 IAR	<2	<0.5	4	8	16	15	<5	210	4	23	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
51	1053 IAR	<2	<0.5	56	15	129	6	<5	20	3	56	<5
52	1054 IAR	<2	<0.5	3	4	6	<5	<5	20	2	34	<5
53	1055 IAR	<2	<0.5	60	9	100	<5	<5	10	2	55	<5
54	1056 IAR	<2	<0.5	2	<3	6	<5	<5	260	1	22	<5
55	1057 IAR	<2	<0.5	10	23	38	7	<5	10	2	176	<5
56	1058 IAR	<2	<0.5	2	25	7	18	<5	20	1	85	<5
57	1059 IAR	4	1.1	3	4	3	49	<5	22,230	2	152	<5
58	1060 IAR	<2	<0.5	<2	3	4	<5	<5	60	1	91	<5
59	1061 IAR	<2	<0.5	63	8	96	<5	<5	70	2	54	<5
60	1062 IAR	<2	<0.5	31	15	262	45	<5	40	2	238	<5
61	1063 IAR	10	0.6	37	16	7	6	<5	20	4	334	<5
62	1064 IAR	3	0.8	15	6	3	<5	<5	10	3	587	<5
63	1065 IAR	58	1.0	5	47	3	26	<5	20	5	51	<5
64	1066 IAR	8	0.8	<2	27	5	13	<5	20	17	110	<5
65	1067 IAR	4	<0.5	24	<3	50	25	<5	20	<1	16	<5
66	1068 IAR	9	2.1	3	109	4	35	<5	80	2	1,261	<5
67	1069 IAR	<2	<0.5	7	4	14	28	<5	30	4	673	<5
68	1070 IAR	<2	<0.5	5	40	3	<5	<5	860	2	826	<5
69	1071 IAR	<2	<0.5	10	5	7	13	<5	100	2	916	<5
70	1072 IAR	3	<0.5	124	29	73	180	<5	230	<1	553	<5
71	1073 IAR	<2	<0.5	3	14	<2	<5	<5	360	3	1,574	<5
72	1074 IAR	<2	<0.5	38	141	29	<5	<5	340	6	806	<5
73	1075 IAR	2	<0.5	2	4	3	23	<5	340	2	275	<5
74	1076 IAR	<2	<0.5	4	<3	<2	<5	<5	20	9	228	<5
75	1077 IAR	<2	<0.5	14	8	3	6	<5	20	4	398	<5
76	1078 IAR	408	3.6	4	<3	2	<5	<5	350	7	3,165	<5
77	1079 IAR	<2	<0.5	15	5	4	7	<5	150	<1	1,047	<5
78	1080 IAR	2	1.0	17	52	104	12	<5	30	3	183	<5
79	1081 IAR	<2	<0.5	6	49	28	<5	<5	370	2	487	<5
80	1082 IAR	<2	0.9	5	162	16	<5	<5	80	<1	200	<5
81	1083 IAR	<2	0.9	10	190	63	<5	<5	40	<1	780	<5
82	1084 IAR	<2	<0.5	19	4	40	<5	<5	210	<1	500	<5
83	1085 IAR	<2	3.2	59	313	643	<5	<5	60	<1	1,147	<5
84	1086 IAR	<2	28.5	46	1,194	402	6	<5	360	3	1,096	<5
85	1087 IAR	<2	20.7	52	5,172	133	6	<5	160	1	266	<5
86	1088 IAR	<2	4.0	7	188	89	<5	<5	140	<1	510	<5
87	1089 IAR	2	0.7	<2	307	68	<5	<5	10	<1	40	<5
88	1101 OAA	<2	<0.5	15	3	4	6	<5	1,180	1	162	<5
89	1102 OAA	<2	<0.5	2	<3	<2	<5	<5	10	<1	81	<5
90	1103 OAA	<2	<0.5	14	<3	9	6	<5	60	<1	130	<5
91	1104 OAA	<2	<0.5	2	11	3	<5	<5	20	<1	795	<5
92	1105 OAA	<2	<0.5	42	<3	54	<5	<5	10	3	58	<5
93	1106 OAA	<2	<0.5	9	<3	4	5	<5	90	1	187	<5
94	1107 OAA	<2	<0.5	10	<3	6	<5	<5	30	<1	165	<5
95	1108 OAA	<2	<0.5	15	<3	4	11	<5	90	3	244	<5
96	1109 OAA	<2	<0.5	94	8	17	6	<5	50	<1	215	<5
97	1110 OAA	<2	<0.5	<2	<3	<2	<5	<5	10	4	127	<5
98	1111 OAA	<2	<0.5	38	98	10	152	<5	40	86	314	<5
99	1112 OAA	<2	<0.5	22	<3	<2	10	<5	70	12	238	<5
100	1113 OAA	<2	<0.5	10	<3	2	28	<5	50	1	195	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
101	1114 OAA	<2	<0.5	6	<3	<2	<5	<5	20	8	954	<5
102	1115 OAA	<2	<0.5	53	<3	5	26	<5	50	4	342	<5
103	1116 OAA	<2	<0.5	21	<3	7	60	<5	40	7	70	<5
104	1117 OAA	6	<0.5	61	40	5	84	<5	540	7	163	<5
105	1118 OAA	<2	<0.5	57	<3	3	24	<5	130	<1	62	<5
106	1119 OAA	<2	<0.5	12	<3	<2	10	<5	20	4	50	<5
107	1120 OAA	<2	<0.5	3	21	<2	84	<5	40	7	25	<5
108	1121 OAA	<2	<0.5	3	25	<2	41	21	30	8	92	<5
109	1122 OAA	2	<0.5	6	30	<2	83	<5	210	5	103	<5
110	1123 OAA	<2	<0.5	21	<3	10	13	<5	30	6	170	<5
111	1124 OAA	4	<0.5	20	12	5	31	9	450	26	118	<5
112	1125 OAA	2	<0.5	5	5	<2	7	<5	440	5	177	<5
113	1126 OAA	<2	<0.5	3	<3	<2	6	<5	30	6	518	<5
114	1127 OAA	2	<0.5	14	17	3	111	<5	540	4	339	<5
115	1128 OAA	<2	<0.5	<2	5	<2	34	<5	20	3	161	<5
116	1129 OAA	<2	<0.5	5	93	4	165	<5	30	7	68	<5
117	1130 OAA	<2	<0.5	190	<3	11	<5	<5	20	2	34	<5
118	1131 OAA	<2	<0.5	6	5	6	16	<5	70	4	152	<5
119	1132 OAA	<2	<0.5	17	<3	6	88	<5	20	3	137	<5
120	1133 OAA	<2	<0.5	4	<3	<2	197	<5	180	7	64	<5
121	1134 OAA	<2	<0.5	82	<3	7	104	<5	5,260	12	92	<5
122	1135 OAA	<2	<0.5	29	17	25	124	<5	180	49	412	<5
123	1136 OAA	<2	<0.5	10	<3	<2	<5	<5	20	5	118	<5
124	1137 OAA	<2	<0.5	26	<3	8	41	<5	90	8	392	<5
125	1138 OAA	<2	<0.5	46	4	6	89	<5	70	7	100	<5
126	1139 OAA	<2	<0.5	53	<3	32	14	<5	130	2	214	<5
127	1140 OAA	<2	<0.5	39	<3	35	72	<5	20	25	236	<5
128	1141 OAA	<2	<0.5	71	<3	54	<5	<5	20	2	87	<5
129	1143 OAA	4	1.1	56	312	2,609	47	<5	30	7	175	<5
130	1144 OAA	172	56.6	700	393	293	197	<5	10	238	37	5
131	1145 OAA	34	7.1	172	789	303	38	<5	10	4	97	<5
132	1146 OAA	504	26.6	122	143	57	15	<5	50	6	178	19
133	1147 OAA	51	6.9	182	1,558	101	83	<5	50	45	61	8
134	1148 OAA	8	2.7	15	167	18	82	14	730	13	59	<5
135	1149 OAA	<2	<0.5	40	27	85	29	<5	150	3	62	<5
136	1150 OAA	<2	<0.5	12	25	105	20	<5	140	1	127	<5
137	1151 OAA	<2	<0.5	23	18	145	40	<5	100	1	103	<5
138	1152 OAA	<2	<0.5	68	29	46	30	<5	110	4	239	<5
139	1153 OAA	<2	<0.5	37	16	103	25	<5	30	1	122	<5
140	1154 OAA	<2	<0.5	130	3	118	<5	<5	20	2	87	<5
141	1155 OAA	<2	<0.5	17	11	83	<5	<5	990	2	223	<5
142	1156 OAA	<2	<0.5	29	7	53	75	<5	590	<1	135	<5
143	1157 OAA	<2	<0.5	18	15	51	26	<5	20	1	522	<5
144	1158 OAA	<2	<0.5	6	119	118	49	<5	390	1	2,050	<5
145	1159 OAA	<2	<0.5	<2	10	2	7	<5	20	2	1,054	<5
146	1160 OAA	7	<0.5	43	11	24	31	<5	20	3	93	<5
147	1161 OAA	5	<0.5	63	11	19	99	<5	60	29	792	<5
148	1162 OAA	6	0.9	15	119	53	14	<5	30	6	123	<5
149	1163 OAA	3	<0.5	38	169	103	21	<5	30	6	85	<5
150	1164 OAA	7	0.9	101	450	279	92	<5	40	13	50	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
151	1165 OAA	<2	<0.5	7	<3	15	<5	<5	20	<1	180	<5
152	1166 OAA	<2	<0.5	26	3	7	<5	<5	100	<1	380	<5
153	1167 OAA	<2	<0.5	14	<3	3	<5	<5	40	2	367	<5
154	1168 OAA	<2	<0.5	3	<3	3	<5	<5	20	7	297	<5
155	1169 OAA	<2	<0.5	51	28	13	39	<5	60	5	372	<5
156	1170 OAA	<2	<0.5	3	11	<2	<5	<5	20	12	201	<5
157	1171 OAA	<2	<0.5	28	<3	6	<5	<5	20	6	423	<5
158	1172 OAA	3	<0.5	29	21	59	<5	<5	30	5	218	<5
159	1173 OAA	<2	<0.5	41	<3	58	<5	<5	10	5	312	<5
160	1174 OAA	<2	<0.5	3	<3	4	<5	<5	20	2	711	<5
161	1175 OAA	<2	2.4	23	20	77	18	<5	30	3	60	<5
162	1176 OAA	<2	78.6	38	98	274	650	6	770	2	96	<5
163	1177 OAA	<2	2.0	34	204	1,554	<5	<5	60	<1	591	<5
164	1178 OAA	<2	1.1	13	494	368	<5	<5	140	1	351	<5
165	1179 OAA	<2	0.7	18	170	40	<5	<5	290	2	469	<5
166	1180 OAA	<2	35.4	790	5,534	254	<5	<5	340	<1	903	<5
167	1181 OAA	<2	5.2	46	103	120	6	<5	310	2	488	<5
168	1182 OAA	5	<0.5	6	84	73	6	<5	10	2	643	<5
169	1184 OAA	3	18.3	13	3,375	572	52	<5	130	1	4,008	<5
170	1185 OAA	2	123.6	29	1,958	518	24	<5	130	7	3,956	<5
171	1187 OAA	4	153.0	240	2,740	1,149	21	<5	740	7	5,260	<5
172	1201 YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	2	199	<5
173	1202 YSS	<2	<0.5	4	<3	<2	11	<5	20	2	429	<5
174	1203 YSS	7	<0.5	24	93	105	34	<5	20	47	101	<5
175	1204 YSS	<2	<0.5	4	<3	<2	7	<5	10	4	105	<5
176	1205 YSS	11	<0.5	6	<3	<2	<5	<5	3,420	12	355	<5
177	1206 YSS	<2	<0.5	<2	<3	<2	<5	<5	10	2	51	<5
178	1207 YSS	<2	<0.5	5	<3	<2	5	<5	20	5	140	<5
179	1208 YSS	<2	<0.5	<2	<3	<2	<5	<5	10	1	100	<5
180	1209 YSS	<2	<0.5	2	<3	<2	<5	<5	30	2	90	<5
181	1210 YSS	<2	<0.5	<2	<3	<2	<5	<5	10	2	69	<5
182	1211 YSS	<2	<0.5	16	3	4	12	<5	30	1	212	<5
183	1212 YSS	<2	<0.5	4	<3	<2	<5	<5	40	3	801	<5
184	1213 YSS	<2	<0.5	2	<3	4	<5	<5	40	<1	1,369	<5
185	1214 YSS	<2	<0.5	<2	<3	<2	<5	<5	10	<1	794	<5
186	1215 YSS	<2	<0.5	<2	<3	2	<5	<5	20	<1	97	<5
187	1216 YSS	<2	<0.5	7	<3	2	6	<5	190	<1	96	<5
188	1217 YSS	<2	<0.5	15	<3	7	<5	<5	1,010	2	219	<5
189	1218 YSS	3	<0.5	11	<3	5	5	<5	440	1	225	<5
190	1219 YSS	<2	<0.5	7	<3	3	15	<5	10	2	111	<5
191	1220 YSS	3	<0.5	<2	81	<2	12	<5	130	5	88	16
192	1221 YSS	<2	<0.5	2	<3	<2	<5	<5	<10	6	55	<5
193	1222 YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	2	146	<5
194	1223 YSS	<2	<0.5	<2	<3	2	<5	<5	30	3	106	<5
195	1224 YSS	<2	<0.5	19	<3	3	9	<5	40	2	240	<5
196	1225 YSS	<2	<0.5	6	4	3	9	<5	20	<1	157	<5
197	1226 YSS	<2	<0.5	3	<3	2	11	<5	140	<1	98	<5
198	1227 YSS	<2	<0.5	12	<3	6	16	<5	190	2	217	<5
199	1228 YSS	<2	<0.5	3	21	<2	6	<5	20	4	20	<5
200	1229 YSS	<2	<0.5	<2	<3	<2	<5	<5	10	1	39	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
201	1230 YSS	<2	<0.5	<2	<3	<2	8	<5	80	<1	72	<5
202	1231 YSS	<2	<0.5	6	<3	<2	6	<5	80	1	50	<5
203	1232 YSS	<2	<0.5	10	<3	<2	19	<5	680	2	53	<5
204	1233 YSS	3	<0.5	46	37	<2	164	7	570	7	218	<5
205	1234 YSS	<2	<0.5	12	5	<2	<5	<5	20	4	772	<5
206	1235 YSS	<2	<0.5	18	<3	<2	5	<5	160	6	907	<5
207	1236 YSS	<2	<0.5	4	13	<2	7	<5	70	1	208	<5
208	1237 YSS	<2	<0.5	3	8	<2	<5	<5	30	3	69	<5
209	1238 YSS	<2	<0.5	2	<3	<2	<5	<5	20	6	155	<5
210	1239 YSS	<2	<0.5	5	<3	2	<5	<5	60	3	709	<5
211	1240 YSS	<2	<0.5	5	<3	<2	<5	<5	30	5	789	<5
212	1241 YSS	<2	<0.5	3	<3	<2	<5	<5	10	18	960	<5
213	1242 YSS	3	<0.5	6	4	4	5	<5	130	11	709	<5
214	1243 YSS	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,298	<5
215	1244 YSS	<2	<0.5	11	<3	6	22	<5	70	2	795	<5
216	1245 YSS	<2	<0.5	5	<3	7	<5	<5	70	5	1,336	<5
217	1246 YSS	<2	<0.5	3	<3	<2	10	<5	10	<1	98	<5
218	1247 YSS	<2	<0.5	32	<3	7	72	<5	10	16	1,075	<5
219	1248 YSS	<2	<0.5	8	<3	<2	11	<5	10	11	741	<5
220	1249 YSS	<2	<0.5	5	<3	<2	6	<5	20	<1	819	<5
221	1250 YSS	<2	<0.5	5	<3	<2	<5	<5	20	7	1,220	<5
222	1251 YSS	<2	<0.5	20	<3	<2	26	<5	430	2	80	<5
223	1252 YSS	2	<0.5	48	5	<2	38	11	2,450	5	924	<5
224	1253 YSS	<2	<0.5	27	<3	25	51	6	30	3	120	<5
225	1254 YSS	<2	<0.5	2	<3	<2	6	<5	30	2	62	<5
226	1255 YSS	<2	<0.5	13	<3	<2	10	<5	240	4	199	<5
227	1256 YSS	<2	<0.5	14	<3	<2	16	<5	460	2	140	<5
228	1257 YSS	<2	<0.5	22	4	5	44	<5	1,820	4	151	<5
229	1258 YSS	<2	<0.5	24	5	13	12	<5	60	3	148	<5
230	1259 YSS	<2	<0.5	21	<3	19	<5	<5	20	1	183	<5
231	1260 YSS	<2	<0.5	19	4	8	29	<5	10	5	195	<5
232	1261 YSS	<2	<0.5	19	<3	3	9	<5	200	1	256	<5
233	1262 YSS	<2	<0.5	8	8	<2	34	<5	10	2	40	<5
234	1263 YSS	<2	<0.5	53	<3	17	36	<5	80	3	156	<5
235	1264 YSS	<2	<0.5	12	<3	4	52	<5	110	4	312	<5
236	1265 YSS	13	1.1	123	953	82	50	<5	20	2	247	<5
237	1266 YSS	100	3.0	122	1,051	96	15	<5	80	7	104	7
238	1267 YSS	2	<0.5	13	20	214	49	<5	20	2	76	<5
239	1268 YSS	2	3.3	6	255	219	33	<5	30	3	106	<5
240	1269 YSS	13	18.5	33	99	62	9	<5	60	9	936	<5
241	1270 YSS	26	10.3	49	935	126	8	<5	30	4	128	<5
242	1271 YSS	2	6.4	35	306	76	7	<5	40	42	60	<5
243	1272 YSS	<2	<0.5	5	18	40	14	<5	20	<1	287	<5
244	1273 YSS	<2	<0.5	4	8	9	<5	<5	110	5	65	<5
245	1274 YSS	<2	<0.5	4	21	18	26	<5	20	2	1,170	<5
246	1275 YSS	20	3.3	20	16	33	81	<5	20	2	69	<5
247	1276 YSS	<2	<0.5	<2	9	15	<5	<5	20	1	31	<5
248	1277 YSS	16	6.2	5	22	51	15	<5	10	<1	40	<5
249	1278 YSS	<2	<0.5	7	17	39	<5	<5	<10	<1	50	<5
250	1279 YSS	<2	0.8	6	19	27	9	<5	240	2	668	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
251	1280 YSS	<2	<0.5	<2	4	245	<5	<5	40	1	1,574	<5
252	1281 YSS	<2	<0.5	3	28	33	6	<5	10	3	125	<5
253	1282 YSS	<2	<0.5	4	21	92	21	<5	10	1	348	<5
254	1283 YSS	<2	<0.5	13	24	72	34	<5	<10	8	228	<5
255	1284 YSS	<2	<0.5	111	486	20	17	<5	10	6	275	<5
256	1285 YSS	<2	<0.5	2	5	17	6	<5	10	2	108	<5
257	1286 YSS	<2	<0.5	2	52	25	<5	<5	20	2	97	<5
258	1287 YSS	<2	<0.5	19	10	26	<5	<5	50	2	191	<5
259	1288 YSS	<2	<0.5	11	22	23	<5	<5	80	2	102	<5
260	1289 YSS	<2	<0.5	<2	<3	5	<5	<5	<10	1	1,191	<5
261	1290 YSS	<2	0.6	<2	<3	44	<5	<5	<10	<1	201	<5
262	1291 YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	273	<5
263	1292 YSS	<2	<0.5	5	3	5	<5	<5	20	2	305	<5
264	1293 YSS	<2	<0.5	<2	<3	<2	<5	<5	50	1	198	<5
265	1294 YSS	<2	<0.5	5	<3	3	<5	<5	40	1	327	<5
266	1295 YSS	<2	<0.5	<2	<3	8	<5	<5	<10	1	154	<5
267	1296 YSS	<2	<0.5	4	4	<2	<5	<5	60	4	171	<5
268	1297 YSS	<2	<0.5	<2	<3	5	<5	<5	10	1	145	<5
269	1300 YSS	<2	17.1	10	2,193	926	23	<5	70	8	3,225	<5
270	1301 MML	<2	<0.5	5	4	6	<5	<5	20	5	539	<5
271	1302 MML	<2	<0.5	29	6	5	<5	<5	110	6	317	<5
272	1303 MML	<2	<0.5	3	6	15	<5	<5	10	5	777	<5
273	1304 MML	<2	<0.5	6	5	5	17	<5	10	2	116	<5
274	1305 MML	<2	<0.5	<2	<3	<2	<5	<5	20	2	12	<5
275	1306 MML	<2	<0.5	<2	<3	<2	<5	<5	10	3	276	<5
276	1307 MML	<2	<0.5	25	<3	65	<5	<5	20	<1	101	<5
277	1308 MML	<2	<0.5	<2	<3	<2	<5	<5	10	3	218	<5
278	1309 MML	2	<0.5	4	<3	2	6	<5	80	8	196	<5
279	1310 MML	<2	<0.5	4	<3	9	<5	<5	10	<1	790	<5
280	1311 MML	<2	<0.5	29	3	3	15	<5	670	1	190	<5
281	1312 MML	<2	<0.5	<2	<3	2	<5	<5	30	<1	914	<5
282	1313 MML	<2	<0.5	36	4	31	32	<5	10	21	214	<5
283	1314 MML	<2	<0.5	34	4	7	30	<5	160	5	423	<5
284	1315 MML	<2	<0.5	53	<3	29	<5	<5	70	<1	110	<5
285	1316 MML	<2	<0.5	15	8	3	11	<5	130	<1	178	<5
286	1317 MML	<2	<0.5	9	<3	<2	10	<5	240	<1	840	<5
287	1318 MML	<2	<0.5	5	6	2	13	<5	40	1	218	<5
288	1319 MML	<2	<0.5	5	<3	3	5	<5	130	1	963	<5
289	1320 MML	<2	<0.5	11	4	<2	19	<5	80	3	159	<5
290	1321 MML	<2	<0.5	4	4	<2	16	<5	230	1	69	<5
291	1322 MML	<2	<0.5	6	<3	<2	5	<5	120	6	575	<5
292	1323 MML	<2	<0.5	5	3	<2	95	<5	420	3	52	<5
293	1324 MML	<2	<0.5	46	3	30	37	<5	260	4	125	<5
294	1325 MML	<2	<0.5	<2	<3	<2	6	<5	90	8	93	<5
295	1326 MML	<2	<0.5	4	3	<2	43	<5	50	12	234	<5
296	1327 MML	<2	<0.5	6	13	<2	<5	<5	10	8	423	<5
297	1328 MML	<2	<0.5	5	14	<2	10	<5	50	5	456	<5
298	1329 MML	<2	<0.5	7	22	<2	23	<5	1,080	7	1,133	<5
299	1330 MML	<2	<0.5	3	<3	<2	<5	<5	30	4	435	<5
300	1331 MML	<2	<0.5	8	4	4	8	<5	70	2	219	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
301	1332 MML	<2	<0.5	2	8	<2	7	<5	630	2	98	<5
302	1333 MML	<2	<0.5	<2	<3	<2	<5	<5	50	1	657	<5
303	1334 MML	<2	<0.5	4	7	<2	<5	<5	60	5	543	5
304	1335 MML	<2	<0.5	6	<3	3	17	<5	730	7	286	<5
305	1336 MML	<2	<0.5	5	<3	<2	5	<5	30	6	100	<5
306	1337 MML	<2	<0.5	4	96	7	<5	<5	10	4	104	<5
307	1338 MML	3	<0.5	11	58	<2	30	<5	40	16	389	<5
308	1339 MML	<2	<0.5	11	<3	3	7	<5	110	3	99	<5
309	1340 MML	<2	<0.5	6	7	<2	17	<5	20	4	97	<5
310	1341 MML	<2	<0.5	14	<3	<2	12	<5	280	2	108	<5
311	1342 MML	<2	1.6	26	8	51	222	<5	100	3	162	<5
312	1343 MML	<2	<0.5	5	<3	<2	19	<5	90	4	32	<5
313	1344 MML	<2	<0.5	11	<3	<2	13	<5	380	3	114	<5
314	1345 MML	<2	<0.5	10	7	<2	10	<5	10	2	182	<5
315	1346 MML	<2	<0.5	7	6	<2	15	<5	30	1	93	<5
316	1347 MML	<2	<0.5	6	<3	<2	17	<5	100	2	43	<5
317	1348 MML	<2	<0.5	4	12	<2	6	<5	70	2	640	<5
318	1349 MML	<2	<0.5	6	12	<2	28	<5	20	13	149	<5
319	1350 MML	<2	<0.5	46	289	11	72	<5	40	191	212	<5
320	1351 MML	<2	<0.5	31	5	4	23	<5	80	2	269	<5
321	1352 MML	<2	<0.5	8	<3	<2	7	<5	90	5	537	<5
322	1353 MML	<2	<0.5	6	<3	2	27	<5	10	4	319	<5
323	1354 MML	<2	<0.5	22	10	<2	26	<5	870	11	169	<5
324	1355 MML	2	<0.5	11	5	<2	16	<5	30	3	160	<5
325	1356 MML	<2	<0.5	16	<3	14	<5	<5	130	2	367	<5
326	1357 MML	<2	<0.5	4	<3	4	8	<5	20	<1	174	<5
327	1358 MML	<2	<0.5	37	5	9	112	<5	600	6	180	<5
328	1359 MML	<2	<0.5	5	<3	3	26	<5	40	7	207	<5
329	1360 MML	<2	<0.5	9	3	4	31	<5	20	2	268	<5
330	1361 MML	<2	<0.5	22	<3	23	33	<5	10	<1	216	<5
331	1362 MML	<2	<0.5	35	<3	32	818	<5	40	1	154	<5
332	1363 MML	<2	<0.5	220	520	145	42	<5	10	2	162	<5
333	1364 MML	3	1.1	12	116	22	18	<5	10	2	108	<5
334	1365 MML	2	3.1	47	137	235	33	<5	20	4	113	<5
335	1366 MML	<2	<0.5	4	13	93	29	<5	20	8	78	<5
336	1367 MML	<2	<0.5	47	4	107	<5	<5	20	1	117	<5
337	1368 MML	<2	<0.5	61	5	66	<5	<5	10	3	62	<5
338	1369 MML	<2	<0.5	25	7	17	7	<5	10	1	501	<5
339	1370 MML	<2	<0.5	8	3	18	5	<5	<10	1	448	<5
340	1371 MML	<2	<0.5	8	8	112	<5	<5	30	<1	156	<5
341	1372 MML	<2	<0.5	2	9	15	<5	<5	10	1	1,380	<5
342	1373 MML	<2	<0.5	115	14	88	<5	<5	<10	<1	156	<5
343	1374 MML	<2	<0.5	2	3	32	<5	<5	30	<1	601	<5
344	1375 MML	<2	<0.5	4	9	84	<5	<5	30	<1	141	<5
345	1376 MML	<2	<0.5	3	<3	6	<5	<5	10	1	268	<5
346	1377 MML	<2	<0.5	24	75	115	<5	<5	20	5	65	<5
347	1378 MML	<2	0.7	63	<3	54	7	<5	10	1	372	<5
348	1379 MML	<2	<0.5	3	<3	19	<5	<5	<10	<1	201	<5
349	1380 MML	<2	<0.5	<2	<3	238	<5	<5	<10	<1	183	<5
350	1381 MML	<2	0.7	12	77	149	<5	<5	<10	145	43	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
351	1382 MML	<2	<0.5	4	12	29	<5	<5	20	3	566	<5
352	1383 MML	<2	<0.5	25	14	103	5	<5	120	1	314	<5
353	1384 MML	<2	<0.5	<2	6	50	<5	<5	30	1	152	<5
354	1385 MML	<2	<0.5	2	29	15	11	<5	30	<1	107	<5
355	1386 MML	<2	4.7	23	673	43	39	<5	530	9	259	<5
356	1387 MML	<2	<0.5	14	8	29	<5	<5	80	1	191	<5
357	1388 MML	<2	<0.5	14	<3	20	<5	<5	20	<1	260	<5
358	1389 MML	<2	<0.5	15	7	82	<5	<5	10	<1	191	<5
359	1390 MML	<2	<0.5	4	5	6	<5	<5	20	2	114	<5
360	1391 MML	<2	<0.5	<2	13	2	<5	<5	10	3	194	<5
361	1392 MML	<2	<0.5	16	<3	11	<5	<5	70	<1	242	<5
362	1393 MML	<2	<0.5	28	<3	24	<5	<5	10	<1	265	<5
363	1394 MML	<2	<0.5	4	3	4	<5	<5	40	<1	258	<5
364	1395 MML	<2	<0.5	24	<3	433	<5	<5	10	<1	152	<5
365	1397 MML	<2	4.2	4	213	1,097	51	<5	260	<1	4,046	<5
366	1401 FMS	<2	<0.5	3	<3	3	<5	<5	20	<1	133	<5
367	1402 FMS	<2	<0.5	13	<3	9	<5	<5	10	<1	180	<5
368	1403 FMS	<2	<0.5	23	<3	12	<5	<5	10	1	171	<5
369	1404 FMS	<2	<0.5	28	<3	57	<5	<5	10	<1	192	<5
370	1405 FMS	<2	<0.5	16	<3	10	<5	<5	20	1	205	<5
371	1406 FMS	<2	<0.5	27	<3	50	<5	<5	<10	2	55	<5
372	1407 FMS	<2	<0.5	12	<3	8	6	<5	30	1	123	<5
373	1408 FMS	<2	<0.5	20	<3	5	<5	<5	70	<1	95	<5
374	1409 FMS	4	<0.5	3	3	2	19	<5	60	2	135	<5
375	1410 FMS	<2	<0.5	45	5	3	26	<5	90	10	154	<5
376	1411 FMS	<2	<0.5	9	5	<2	7	<5	160	4	184	<5
377	1412 FMS	<2	<0.5	6	22	8	30	<5	10	<1	126	<5
378	1413 FMS	<2	<0.5	96	<3	9	38	<5	470	2	287	<5
379	1414 FMS	<2	<0.5	11	34	5	51	<5	<10	7	208	<5
380	1415 FMS	<2	<0.5	32	<3	6	9	<5	40	<1	105	<5
381	1416 FMS	<2	<0.5	15	<3	17	<5	<5	40	1	111	<5
382	1417 FMS	<2	<0.5	8	<3	<2	8	<5	20	2	693	<5
383	1418 FMS	<2	<0.5	5	<3	<2	16	<5	60	2	257	<5
384	1419 FMS	<2	<0.5	58	<3	18	<5	<5	20	1	936	<5
385	1420 FMS	<2	<0.5	22	3	2	41	<5	30	2	123	<5
386	1421 FMS	<2	<0.5	19	<3	3	57	<5	50	3	59	<5
387	1422 FMS	<2	<0.5	8	9	3	21	<5	100	5	158	<5
388	1423 FMS	<2	<0.5	4	<3	3	<5	<5	20	14	828	<5
389	1424 FMS	<2	<0.5	16	19	2	29	<5	130	19	321	<5
390	1425 FMS	<2	<0.5	103	28	3	23	<5	20	4	88	<5
391	1426 FMS	2	<0.5	18	12	<2	24	<5	30	5	125	<5
392	1427 FMS	<2	<0.5	7	76	<2	29	<5	40	3	104	<5
393	1428 FMS	2	<0.5	14	<3	13	127	<5	420	4	242	<5
394	1429 FMS	<2	<0.5	<2	4	<2	<5	<5	10	<1	268	<5
395	1430 FMS	<2	<0.5	7	<3	<2	25	<5	70	<1	64	<5
396	1431 FMS	4	<0.5	107	6	17	123	<5	30	8	178	<5
397	1432 FMS	2	<0.5	3	14	<2	7	<5	<10	2	407	<5
398	1433 FMS	<2	<0.5	30	<3	<2	9	<5	1,920	2	138	<5
399	1434 FMS	<2	<0.5	76	3	12	42	<5	40	8	71	<5
400	1435 FMS	<2	<0.5	18	5	3	15	<5	140	6	547	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
401	1436 FMS	<2	<0.5	35	6	9	74	<5	30	5	411	<5
402	1437 FMS	<2	<0.5	47	6	7	9	<5	20	3	322	<5
403	1438 FMS	<2	<0.5	36	<3	5	483	<5	10	3	169	<5
404	1439 FMS	<2	<0.5	8	<3	12	115	<5	40	2	90	<5
405	1440 FMS	<2	<0.5	9	124	9	30	<5	20	3	543	<5
406	1441 FMS	<2	<0.5	28	6	12	205	<5	20	3	848	<5
407	1442 FMS	<2	<0.5	16	13	5	14	<5	260	5	400	<5
408	1443 FMS	<2	<0.5	29	5	24	22	<5	80	1	191	<5
409	1444 FMS	<2	<0.5	21	4	11	113	<5	680	9	153	<5
410	1445 FMS	<2	<0.5	9	3	5	12	<5	110	4	131	<5
411	1446 FMS	<2	<0.5	4	7	7	129	<5	30	9	153	<5
412	1447 FMS	<2	<0.5	15	<3	14	1,647	<5	30	6	120	<5
413	1448 FMS	<2	<0.5	18	<3	11	<5	<5	10	<1	80	<5
414	1449 FMS	<2	<0.5	61	20	51	16	<5	90	3	322	<5
415	1450 FMS	<2	<0.5	6	4	3	24	<5	40	3	168	<5
416	1451 FMS	<2	<0.5	3	19	<2	<5	<5	10	2	159	<5
417	1452 FMS	<2	<0.5	11	11	19	16	<5	10	2	149	<5
418	1453 FMS	<2	<0.5	37	<3	67	6	<5	110	<1	736	<5
419	1454 FMS	<2	<0.5	11	<3	10	847	<5	640	4	67	<5
420	1455 FMS	<2	<0.5	25	<3	5	308	<5	60	43	268	<5
421	1456 FMS	15	3.3	250	857	143	90	<5	20	<1	164	<5
422	1457 FMS	37	1.8	169	511	96	174	<5	<10	43	297	<5
423	1458 FMS	6	2.8	80	1,284	126	18	<5	<10	3	261	<5
424	1459 FMS	38	1.0	119	624	64	20	<5	10	7	244	<5
425	1460 FMS	9	5.8	149	200	35	<5	<5	<10	1	98	<5
426	1461 FMS	59	7.9	278	233	98	37	<5	<10	3	102	<5
427	1462 FMS	20	<0.5	114	117	791	76	<5	30	21	92	<5
428	1463 FMS	<2	<0.5	<2	13	10	<5	<5	10	<1	244	<5
429	1464 FMS	<2	<0.5	2	18	52	11	<5	10	<1	365	<5
430	1465 FMS	<2	<0.5	<2	9	10	<5	<5	20	2	77	<5
431	1466 FMS	<2	<0.5	<2	10	14	<5	<5	60	<1	62	<5
432	1467 FMS	<2	<0.5	15	105	428	<5	<5	40	<1	15	<5
433	1468 FMS	<2	<0.5	3	12	26	<5	<5	10	<1	287	<5
434	1469 FMS	2	<0.5	<2	11	55	12	<5	30	<1	225	<5
435	1470 FMS	<2	<0.5	3	9	8	<5	<5	10	1	173	<5
436	1471 FMS	<2	<0.5	<2	11	11	7	<5	10	<1	135	<5
437	1472 FMS	<2	<0.5	34	15	22	8	<5	380	2	799	<5
438	1473 FMS	<2	0.6	8	22	52	<5	<5	20	1	364	<5
439	1474 FMS	<2	<0.5	8	8	75	<5	<5	10	2	157	<5
440	1475 FMS	<2	<0.5	13	<3	8	12	<5	40	6	237	<5
441	1476 FMS	<2	<0.5	16	13	19	<5	<5	10	2	168	<5
442	1477 FMS	344	3.7	25	2,569	21	373	10	110	9	949	<5
443	1478 FMS	121	<0.5	17	280	19	21	<5	60	9	2,760	<5
444	1479 FMS	<2	<0.5	59	5	9	19	<5	70	4	273	<5
445	1480 FMS	<2	<0.5	34	4	12	<5	<5	140	<1	297	<5
446	1481 FMS	<2	<0.5	15	5	10	9	<5	50	1	372	<5
447	1482 FMS	<2	<0.5	15	19	34	16	<5	140	2	108	<5
448	1483 FMS	<2	<0.5	9	9	46	<5	<5	10	1	91	<5
449	1484 FMS	<2	0.7	7	132	18	<5	<5	40	1	193	<5
450	1485 FMS	<2	<0.5	4	77	45	161	<5	420	<1	237	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
451	1487 FMS	<2	12.0	14	62	967	<5	<5	50	2	281	<5
452	1488 FMS	8	191.0	94	653	464	8	<5	50	8	3,787	<5
453	1491 FMS	20	229.0	24	1,393	1,463	88	<5	90	4	3,715	<5
454	1493 FMS	<2	7.1	6	82	3,801	<5	<5	20	1	3,349	<5
455	1494 FMS	<2	5.9	4	118	2,215	<5	<5	110	2	922	<5
456	1501 GQC	<2	<0.5	6	<3	9	<5	<5	<10	4	170	<5
457	1502 GQC	<2	<0.5	5	5	6	13	<5	110	6	104	<5
458	1503 GQC	<2	<0.5	6	4	6	37	<5	40	8	32	<5
459	1504 GQC	<2	<0.5	22	<3	15	<5	<5	60	<1	143	<5
460	1505 GQC	<2	<0.5	56	4	21	<5	<5	20	1	167	<5
461	1506 GQC	<2	<0.5	53	<3	12	15	<5	40	2	362	<5
462	1507 GQC	<2	<0.5	23	<3	7	9	<5	120	3	211	<5
463	1508 GQC	<2	<0.5	19	<3	19	8	<5	10	2	357	<5
464	1509 GQC	<2	<0.5	<2	8	<2	<5	<5	420	1	153	<5
465	1510 GQC	<2	<0.5	43	<3	5	56	<5	110	2	258	<5
466	1511 GQC	<2	<0.5	7	<3	6	9	<5	<10	<1	665	<5
467	1512 GQC	<2	<0.5	40	10	10	16	<5	1,250	1	448	<5
468	1513 GQC	<2	<0.5	6	7	<2	16	<5	20	6	448	<5
469	1514 GQC	<2	<0.5	<2	<3	2	<5	<5	10	<1	1,057	<5
470	1515 GQC	<2	<0.5	4	4	7	<5	<5	60	1	368	<5
471	1516 GQC	<2	<0.5	5	<3	<2	20	<5	20	2	303	<5
472	1517 GQC	<2	<0.5	11	8	5	13	<5	10	2	70	<5
473	1518 GQC	<2	<0.5	4	<3	<2	5	<5	10	3	31	<5
474	1519 GQC	<2	<0.5	<2	<3	<2	15	<5	<10	2	93	<5
475	1520 GQC	<2	<0.5	5	8	<2	<5	<5	30	1	612	<5
476	1521 GQC	<2	<0.5	3	8	<2	16	<5	140	2	34	<5
477	1522 GQC	<2	<0.5	<2	<3	<2	<5	<5	10	1	84	<5
478	1523 GQC	3	<0.5	7	<3	<2	6	<5	20	1	153	<5
479	1524 GQC	<2	<0.5	7	<3	2	<5	<5	50	7	797	<5
480	1525 GQC	<2	<0.5	68	16	<2	17	<5	140	3	79	<5
481	1526 GQC	<2	<0.5	3	<3	<2	<5	<5	10	4	1,030	<5
482	1527 GQC	<2	<0.5	<2	<3	<2	<5	<5	<10	4	721	<5
483	1528 GQC	<2	<0.5	<2	6	14	6	<5	10	3	295	<5
484	1529 GQC	<2	<0.5	3	<3	4	13	<5	20	<1	95	<5
485	1530 GQC	<2	<0.5	10	4	3	9	<5	160	2	167	<5
486	1531 GQC	<2	<0.5	60	<3	8	<5	<5	10	1	122	<5
487	1532 GQC	<2	<0.5	8	8	<2	10	<5	320	6	340	<5
488	1533 GQC	<2	<0.5	35	25	3	62	<5	130	13	902	<5
489	1534 GQC	<2	<0.5	2	7	<2	29	5	10	2	150	<5
490	1535 GQC	<2	<0.5	3	7	2	26	<5	10	2	222	<5
491	1536 GQC	<2	<0.5	8	<3	4	333	<5	10	6	176	<5
492	1537 GQC	<2	<0.5	28	8	7	34	6	1,590	14	263	<5
493	1538 GQC	<2	<0.5	42	<3	20	<5	<5	20	1	379	<5
494	1539 GQC	<2	<0.5	39	<3	6	15	<5	30	9	108	<5
495	1540 GQC	<2	<0.5	20	4	24	10	<5	10	3	352	<5
496	1541 GQC	8	5.1	12	324	60	15	<5	10	2	39	<5
497	1542 GQC	16	1.7	117	210	201	76	<5	10	<1	302	<5
498	1543 GQC	24	1.9	167	83	181	129	<5	10	8	212	<5
499	1544 GQC	45	1.8	121	54	131	81	<5	10	4	105	<5
500	1545 GQC	6	<0.5	117	179	310	48	<5	10	3	45	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
501	1546 GQC	18	1.2	201	120	629	54	<5	10	2	80	<5
502	1547 GQC	<2	<0.5	60	8	24	<5	<5	10	<1	69	<5
503	1548 GQC	<2	<0.5	4	14	32	<5	<5	10	<1	343	<5
504	1549 GQC	2	0.9	3	30	6	6	<5	180	<1	112	<5
505	1550 GQC	<2	<0.5	2	<3	302	8	<5	110	1	624	<5
506	1551 GQC	<2	<0.5	11	<3	1,189	<5	<5	60	<1	541	<5
507	1552 GQC	<2	<0.5	<2	7	136	9	<5	20	1	850	<5
508	1553 GQC	2	<0.5	4	7	100	<5	<5	10	2	156	<5
509	1554 GQC	<2	<0.5	5	<3	188	8	<5	10	<1	178	<5
510	1555 GQC	<2	<0.5	10	4	94	<5	<5	10	<1	104	<5
511	1556 GQC	<2	<0.5	11	15	170	<5	<5	10	<1	77	<5
512	1557 GQC	5	1.9	60	158	65	6	<5	10	<1	123	<5
513	1558 GQC	10	0.9	<2	14	5	9	<5	20	2	98	<5
514	1559 GQC	2	1.6	5	82	6	<5	<5	570	<1	111	<5
515	1560 GQC	2	<0.5	79	<3	132	7	<5	20	<1	95	<5
516	1561 GQC	2	<0.5	41	<3	118	17	<5	20	<1	93	<5
517	1562 GQC	<2	<0.5	28	4	20	<5	<5	30	<1	124	<5
518	1563 GQC	<2	<0.5	<2	7	11	<5	<5	20	3	116	<5
519	1564 GQC	<2	<0.5	<2	42	23	<5	<5	10	1	436	<5
520	1565 GQC	120	<0.5	69	16	60	8	<5	20	58	407	<5
521	1566 GQC	51	1.4	21	124	11	60	<5	70	26	1,642	<5
522	1567 GQC	<2	<0.5	<2	4	3	<5	<5	10	10	358	<5
523	1568 GQC	<2	<0.5	11	9	71	<5	<5	20	3	54	<5
524	1569 GQC	<2	<0.5	16	14	84	<5	<5	30	<1	91	<5
525	1570 GQC	<2	<0.5	8	9	45	<5	<5	480	2	520	<5
526	1571 GQC	<2	<0.5	5	31	55	<5	<5	170	<1	173	<5
527	1572 GQC	<2	<0.5	15	12	85	<5	<5	20	<1	452	<5
528	1573 GQC	<2	<0.5	13	4	75	<5	<5	10	<1	422	<5
529	1574 GQC	<2	<0.5	9	<3	68	<5	<5	10	<1	151	<5
530	1575 GQC	<2	<0.5	7	4	63	<5	<5	60	<1	183	<5
531	1576 GQC	<2	583.0	14	650	331	6	<5	510	8	3,481	<5
532	1578 GQC	3	17.5	90	975	951	289	<5	110	7	99	<5
533	1601 TI	<2	<0.5	9	7	31	<5	<5	10	2	136	<5
534	1602 TI	<2	<0.5	27	5	106	10	<5	20	1	125	<5
535	1603 TI	<2	<0.5	13	10	64	6	<5	10	<1	360	<5
536	1604 TI	<2	<0.5	6	4	35	10	<5	30	3	137	<5
537	1605 TI	<2	<0.5	<2	5	16	15	<5	10	2	352	<5
538	1606 TI	2	<0.5	2	13	40	35	<5	20	2	53	<5
539	1607 TI	<2	<0.5	41	14	157	<5	<5	20	<1	113	<5
540	1608 TI	<2	<0.5	3	21	66	6	<5	40	2	70	<5
541	1610 TI	<2	<0.5	115	8	97	<5	<5	40	2	1,266	<5
542	1612 TI	<2	<0.5	24	148	50	<5	<5	60	2	2,690	<5
543	1613 TI	<2	<0.5	2	50	35	<5	<5	20	1	548	<5
544	1614 TI	<2	<0.5	<2	20	341	<5	<5	20	2	170	<5
545	1615 TI	<2	<0.5	<2	12	19	<5	<5	10	<1	173	<5
546	1616 TI	<2	<0.5	6	49	21	13	<5	30	2	241	<5
547	1617 TI	<2	0.8	8	16	38	20	<5	30	<1	150	<5
548	1618 TI	<2	<0.5	5	23	48	27	<5	40	1	104	<5
549	1619 TI	<2	<0.5	15	23	467	<5	<5	30	<1	231	<5
550	1620 TI	<2	<0.5	7	32	122	7	<5	30	<1	99	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
551	1621 TI	<2	1.1	8	16	48	13	<5	20	2	35	<5
552	1622 TI	5	0.6	6	14	17	6	<5	20	13	419	<5
553	1701 MH	<2	<0.5	17	<3	40	<5	<5	10	1	80	<5
554	1702 MH	<2	<0.5	5	<3	<2	7	<5	10	<1	1,119	<5
555	1703 MH	<2	<0.5	6	<3	3	6	<5	20	6	552	<5
556	1704 MH	<2	<0.5	4	<3	<2	7	<5	10	1	663	<5
557	1705 MH	<2	<0.5	7	5	4	11	<5	20	2	304	<5
558	1706 MH	<2	<0.5	17	<3	32	6	<5	10	3	200	<5
559	1707 MH	<2	<0.5	5	<3	3	5	<5	50	4	322	<5
560	1708 MH	<2	<0.5	24	<3	67	<5	<5	10	3	109	<5
561	1709 MH	<2	<0.5	9	3	7	24	<5	290	8	175	<5
562	1710 MH	<2	<0.5	5	<3	<2	10	<5	1,110	1	599	<5
563	1711 MH	<2	<0.5	7	<3	<2	11	<5	20	6	336	<5
564	1712 MH	<2	<0.5	4	<3	3	10	<5	10	3	805	<5
565	1713 MH	<2	<0.5	5	3	4	7	<5	10	3	411	<5
566	1714 MH	<2	<0.5	11	16	18	91	<5	10	5	386	<5
567	1715 MH	<2	<0.5	13	5	5	74	<5	5,750	7	117	<5
568	1716 MH	<2	<0.5	5	<3	3	16	<5	40	4	185	<5
569	1717 MH	<2	<0.5	4	<3	<2	13	<5	20	4	863	<5
570	1718 MH	<2	<0.5	5	<3	2	<5	<5	10	3	618	<5
571	1719 MH	<2	<0.5	61	6	7	82	<5	20	1	110	<5
572	1720 MH	<2	<0.5	19	10	8	42	<5	150	2	226	<5
573	1721 MH	<2	<0.5	29	9	7	63	<5	20	5	193	<5
574	1722 MH	<2	<0.5	5	4	164	14	<5	280	4	729	<5
575	1723 MH	<2	<0.5	39	6	2	37	<5	80	6	1,250	<5
576	1724 MH	<2	<0.5	56	4	58	25	<5	20	2	168	<5
577	1725 MH	2	<0.5	39	7	13	36	<5	30	42	147	<5
578	1726 MH	<2	<0.5	39	29	32	43	<5	50	3	236	<5
579	1727 MH	<2	<0.5	66	<3	112	<5	<5	40	2	83	<5
580	1728 MH	<2	<0.5	24	<3	23	6	<5	10	2	245	<5
581	1729 MH	<2	<0.5	42	5	69	13	<5	30	9	185	<5
582	1730 MH	<2	<0.5	21	<3	21	36	<5	80	5	56	<5
583	1731 MH	<2	<0.5	40	6	7	33	<5	60	3	229	<5
584	1732 MH	<2	<0.5	24	<3	4	12	<5	60	1	141	<5
585	1733 MH	<2	<0.5	9	9	3	38	<5	70	2	193	<5
586	1734 MH	<2	<0.5	23	4	17	26	<5	110	2	276	<5
587	1735 MH	<2	<0.5	6	5	3	6	<5	60	<1	340	<5
588	1736 MH	<2	<0.5	32	6	9	13	<5	10	2	164	<5
589	1737 MH	<2	<0.5	23	3	9	<5	<5	20	<1	310	<5
590	1738 MH	<2	<0.5	38	<3	44	<5	<5	20	<1	271	<5
591	1739 MH	2	<0.5	26	4	5	19	<5	120	2	433	<5
592	1740 MH	<2	<0.5	<2	4	<2	<5	<5	1,510	2	186	<5
593	1741 MH	<2	<0.5	5	<3	<2	5	<5	60	2	84	<5
594	1742 MH	<2	<0.5	3	<3	3	<5	<5	40	6	970	<5
595	1743 MH	<2	<0.5	20	4	12	17	<5	60	1	175	<5
596	1744 MH	<2	<0.5	4	5	<2	11	<5	90	<1	55	<5
597	1745 MH	<2	<0.5	25	6	9	29	<5	20	3	123	<5
598	1746 MH	<2	<0.5	27	37	15	118	<5	20	32	571	<5
599	1747 MH	<2	<0.5	25	20	2	52	<5	10	18	243	<5
600	1748 MH	<2	<0.5	8	11	6	13	<5	20	3	312	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
601	1749 MH	<2	<0.5	4	<3	<2	<5	<5	70	11	64	<5
602	1750 MH	<2	<0.5	9	<3	2	<5	<5	10	2	1,088	<5
603	1751 MH	<2	<0.5	19	7	2	14	<5	330	<1	221	<5
604	1752 MH	<2	<0.5	19	3	3	22	<5	60	1	165	<5
605	1753 MH	<2	<0.5	8	<3	<2	9	<5	220	1	209	<5
606	1754 MH	<2	<0.5	19	7	2	10	<5	30	2	131	<5
607	1755 MH	5	<0.5	9	5	<2	18	<5	10	2	209	<5
608	1756 MH	<2	<0.5	5	19	<2	15	<5	30	14	190	<5
609	1757 MH	<2	<0.5	15	<3	<2	20	<5	320	8	1,261	<5
610	1758 MH	<2	<0.5	7	70	<2	23	<5	30	11	51	<5
611	1759 MH	<2	<0.5	3	<3	<2	<5	<5	240	5	700	<5
612	1760 MH	<2	<0.5	4	<3	<2	<5	<5	20	6	883	<5
613	1761 MH	<2	<0.5	9	<3	<2	30	<5	270	8	85	<5
614	1762 MH	<2	<0.5	<2	4	<2	<5	<5	20	1	684	<5
615	1763 MH	<2	<0.5	10	<3	3	6	<5	370	8	1,000	<5
616	1764 MH	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,438	<5
617	1765 MH	<2	<0.5	29	11	5	81	<5	50	3	108	<5
618	1766 MH	<2	<0.5	43	6	4	80	<5	310	3	169	<5
619	1767 MH	<2	<0.5	43	<3	4	27	<5	920	3	199	<5
620	1768 MH	<2	<0.5	22	<3	2	10	<5	70	2	58	<5
621	1769 MH	<2	<0.5	38	4	6	<5	<5	120	3	213	<5
622	1770 MH	<2	<0.5	7	<3	6	42	<5	160	2	118	<5
623	1771 MH	<2	<0.5	20	5	5	43	<5	110	1	46	<5
624	1772 MH	<2	<0.5	14	4	4	15	<5	90	1	41	<5
625	1773 MH	<2	<0.5	7	14	9	1,600	16	30	1	1,678	7
626	1774 MH	<2	<0.5	9	15	3	32	<5	<10	1	209	<5
627	1775 MH	<2	<0.5	96	3	3	20	<5	80	2	13	<5
628	1776 MH	<2	<0.5	11	10	<2	14	<5	20	<1	37	<5
629	1777 MH	<2	<0.5	15	21	53	7,810	357	120	5	298	<5
630	1778 MH	<2	<0.5	6	<3	<2	27	<5	40	2	96	<5
631	1779 MH	<2	<0.5	29	7	6	<5	<5	30	2	125	<5
632	1780 MH	<2	<0.5	8	9	5	22	<5	50	3	291	<5
633	1781 MH	<2	<0.5	54	6	18	43	<5	20	5	339	<5
634	1782 MH	2	<0.5	167	<3	42	9	<5	50	2	240	<5
635	1783 MH	<2	<0.5	44	4	19	112	<5	20	1	135	<5
636	1784 MH	<2	<0.5	108	18	63	11,388	<5	30	8	59	<5
637	1785 MH	<2	<0.5	27	<3	17	29	<5	80	2	745	<5
638	1786 MH	<2	<0.5	14	5	12	32	<5	600	2	198	<5
639	1787 MH	<2	<0.5	33	<3	36	4,220	<5	80	1	189	<5
640	1788 MH	<2	<0.5	19	<3	11	3,303	<5	80	5	48	<5
641	1801 KN	<2	<0.5	27	<3	56	<5	<5	<10	2	104	<5
642	1802 KN	<2	<0.5	40	<3	74	<5	<5	30	1	117	<5
643	1803 KN	<2	<0.5	36	<3	56	<5	<5	30	<1	62	<5
644	1804 KN	<2	<0.5	33	<3	80	<5	<5	<10	1	114	<5
645	1805 KN	<2	<0.5	50	<3	74	<5	<5	<10	1	83	<5
646	1806 KN	<2	<0.5	25	<3	89	<5	<5	20	2	117	<5
647	1807 KN	<2	<0.5	25	<3	85	<5	<5	10	2	84	<5
648	1808 KN	<2	<0.5	23	<3	109	<5	<5	10	2	167	<5
649	1809 KN	<2	<0.5	6	<3	4	<5	<5	10	7	110	<5
650	1810 KN	<2	<0.5	2	<3	5	<5	<5	20	3	174	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
651	1811 KN	<2	<0.5	4	<3	3	<5	<5	20	4	107	<5
652	1812 KN	<2	<0.5	3	<3	4	<5	<5	10	2	32	<5
653	1813 KN	<2	<0.5	4	<3	3	<5	<5	10	3	285	<5
654	1814 KN	<2	<0.5	24	<3	37	<5	<5	20	1	83	<5
655	1815 KN	<2	<0.5	19	<3	40	<5	<5	10	2	55	<5
656	1816 KN	<2	<0.5	24	<3	50	<5	<5	10	3	78	<5
657	1817 KN	<2	<0.5	35	<3	50	<5	<5	10	2	82	<5
658	1818 KN	<2	<0.5	28	3	96	<5	<5	10	2	107	<5
659	1819 KN	<2	<0.5	39	<3	81	<5	<5	10	2	143	<5
660	1820 KN	<2	<0.5	23	<3	61	<5	<5	10	1	144	<5
661	1821 KN	<2	<0.5	45	<3	46	<5	<5	10	<1	73	<5
662	1822 KN	<2	<0.5	21	<3	6	8	<5	10	<1	308	<5
663	1823 KN	<2	<0.5	8	<3	6	16	<5	140	7	186	<5
664	1824 KN	<2	<0.5	18	<3	11	7	<5	10	7	166	<5
665	1825 KN	<2	<0.5	42	<3	38	14	<5	20	3	264	<5
666	1826 KN	<2	<0.5	24	<3	16	45	<5	20	3	77	<5
667	1827 KN	<2	<0.5	17	6	2	38	<5	10	2	191	<5
668	1828 KN	<2	0.5	6	5	3	7	<5	10	6	238	<5
669	1829 KN	<2	<0.5	36	<3	15	22	<5	20	2	367	<5
670	1830 KN	<2	<0.5	60	<3	90	<5	<5	10	2	140	<5
671	1831 KN	<2	<0.5	52	<3	60	<5	<5	20	2	145	<5
672	1832 KN	<2	<0.5	<2	<3	3	<5	<5	20	<1	1,233	<5
673	1833 KN	<2	<0.5	6	<3	<2	<5	<5	20	5	1,231	<5
674	1834 KN	<2	<0.5	3	<3	3	7	<5	50	1	1,494	<5
675	1835 KN	<2	<0.5	6	8	5	10	<5	20	2	473	<5
676	1836 KN	<2	<0.5	39	<3	46	6	<5	20	<1	128	<5
677	1837 KN	3	<0.5	6	5	3	<5	<5	110	6	238	<5
678	1838 KN	<2	<0.5	4	4	<2	<5	<5	780	1	213	<5
679	1839 KN	<2	<0.5	7	8	8	11	<5	90	2	363	<5
680	1840 KN	<2	<0.5	<2	3	3	10	<5	10	2	97	<5
681	1841 KN	<2	<0.5	56	<3	39	<5	<5	10	1	159	<5
682	1842 KN	<2	<0.5	60	<3	224	<5	<5	10	3	130	<5
683	1843 KN	<2	<0.5	3	22	4	11	<5	40	2	312	<5
684	1844 KN	<2	<0.5	5	5	5	6	<5	40	2	157	<5
685	1845 KN	<2	<0.5	4	5	4	6	<5	50	<1	317	<5
686	1846 KN	<2	<0.5	13	6	5	9	<5	30	2	309	<5
687	1847 KN	<2	<0.5	34	<3	27	<5	<5	10	1	204	<5
688	1848 KN	<2	<0.5	8	4	6	25	<5	10	2	386	<5
689	1849 KN	<2	<0.5	2	11	<2	<5	<5	10	2	355	<5
690	1850 KN	<2	<0.5	21	14	10	15	<5	40	2	414	<5
691	1851 KN	<2	<0.5	3	8	4	17	<5	10	2	272	<5
692	1852 KN	<2	<0.5	33	3	19	28	<5	50	2	235	<5
693	1853 KN	<2	<0.5	<2	<3	3	<5	<5	10	2	160	<5
694	1854 KN	<2	<0.5	7	3	3	10	<5	60	2	134	<5
695	1855 KN	<2	<0.5	3	7	<2	44	<5	40	3	219	<5
696	1856 KN	<2	<0.5	2	<3	<2	6	<5	50	1	112	<5
697	1857 KN	<2	<0.5	8	4	<2	10	<5	10	6	66	<5
698	1858 KN	<2	<0.5	5	<3	2	<5	<5	30	6	162	<5
699	1859 KN	<2	<0.5	53	<3	50	<5	<5	20	2	138	<5
700	1860 KN	<2	<0.5	17	4	11	33	<5	90	2	265	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
701	1861 KN	<2	<0.5	57	<3	82	<5	<5	10	3	180	<5
702	1862 KN	<2	<0.5	81	<3	10	<5	<5	50	<1	270	<5
703	1863 KN	<2	<0.5	53	<3	46	<5	<5	20	2	149	<5
704	1864 KN	<2	<0.5	46	<3	40	<5	<5	80	1	150	<5
705	1865 KN	<2	<0.5	5	7	11	72	<5	330	3	168	<5
706	1866 KN	<2	<0.5	11	<3	4	20	<5	30	7	223	<5
707	1867 KN	<2	<0.5	4	265	4	873	<5	30	1	82	<5
708	1868 KN	<2	<0.5	14	3	6	48	<5	10	2	231	<5
709	1869 KN	<2	<0.5	6	60	9	219	<5	20	1	77	<5
710	1870 KN	<2	<0.5	4	<3	5	36	<5	20	2	591	<5
711	1871 KN	<2	<0.5	46	<3	31	<5	<5	20	<1	417	<5
712	1872 KN	<2	<0.5	24	<3	30	<5	<5	10	<1	172	<5
713	1873 KN	<2	<0.5	3	4	7	11	<5	10	2	240	<5
714	1874 KN	<2	<0.5	7	<3	<2	10	<5	90	2	102	<5
715	1875 KN	<2	<0.5	8	10	5	5	<5	20	8	581	<5
716	1876 KN	<2	<0.5	6	<3	5	<5	<5	80	6	223	<5
717	1877 KN	<2	<0.5	14	<3	6	17	<5	20	1	333	<5
718	1878 KN	<2	<0.5	2	4	4	33	<5	20	2	212	<5
719	1879 KN	<2	<0.5	2	<3	2	15	<5	30	1	87	<5
720	1880 KN	<2	<0.5	4	<3	4	30	<5	30	<1	139	<5
721	1881 KN	<2	<0.5	4	7	8	46	<5	20	2	66	<5
722	1882 KN	<2	<0.5	13	9	9	25	<5	150	2	256	<5
723	1883 KN	<2	<0.5	8	6	5	21	<5	120	3	83	<5
724	1884 KN	<2	<0.5	11	15	14	17	<5	20	3	204	<5
725	1885 KN	<2	<0.5	17	<3	4	25	7	170	1	99	<5
726	1886 KN	<2	<0.5	21	4	16	14	<5	10	5	54	<5
727	1887 KN	<2	<0.5	23	<3	8	54	<5	50	6	400	<5
728	1888 KN	<2	<0.5	50	<3	24	<5	<5	140	1	116	<5
729	1889 KN	<2	<0.5	6	<3	7	8	<5	60	1	111	<5
730	1890 KN	<2	<0.5	19	4	3	26	<5	330	4	255	<5
731	1891 KN	<2	<0.5	7	<3	5	15	<5	20	3	72	<5
732	1892 KN	<2	<0.5	11	<3	7	15	<5	20	4	589	<5
733	1893 KN	<2	<0.5	9	7	8	10	<5	20	2	213	<5
734	1894 KN	<2	<0.5	6	6	14	7	<5	<10	2	1,641	<5
735	1895 KN	<2	<0.5	7	<3	5	<5	<5	10	<1	278	<5
736	1896 KN	<2	<0.5	26	<3	4	9	<5	780	2	191	<5
737	1897 KN	<2	<0.5	62	4	56	7	<5	80	2	219	<5
738	1898 KN	<2	<0.5	8	<3	19	64	<5	20	2	161	<5
739	1899 KN	<2	<0.5	14	15	32	156	<5	30	2	107	<5
740	1900 KN	<2	<0.5	17	42	67	200	<5	30	1	149	<5
741	1901 KN	<2	<0.5	13	102	30	232	<5	30	1	192	<5
742	1902 KN	<2	<0.5	12	82	30	254	<5	20	2	121	<5
743	1903 KN	<2	<0.5	17	245	34	347	<5	20	2	270	<5
744	1904 KN	<2	<0.5	14	78	32	236	<5	30	<1	201	<5
745	1905 KN	<2	<0.5	14	83	35	255	<5	20	<1	248	<5
746	1906 KN	<2	<0.5	12	50	28	188	<5	40	<1	231	<5
747	1907 KN	<2	<0.5	17	25	36	209	<5	20	<1	266	<5
748	1908 KN	<2	<0.5	13	51	28	206	<5	30	<1	235	<5
749	1909 KN	<2	<0.5	11	47	21	177	<5	40	1	181	<5
750	1910 KN	<2	<0.5	10	19	22	168	<5	20	1	227	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
751	1911 KN	<2	<0.5	42	18	62	482	<5	20	<1	317	<5
752	1912 KN	<2	<0.5	39	22	85	918	<5	10	2	142	<5
753	1913 KN	<2	<0.5	45	<3	201	10	<5	10	2	629	<5
754	1914 KN	<2	<0.5	54	<3	89	356	<5	30	1	25	<5
755	1915 KN	<2	<0.5	10	4	12	84	<5	10	2	159	<5
756	1916 KN	<2	<0.5	18	4	25	20	<5	20	2	319	<5
757	1917 KN	<2	<0.5	5	45	4	159	<5	10	1	89	<5
758	1918 KN	5	2.7	28	470	589	6	<5	70	2	140	<5
759	1919 KN	10	2.2	3	206	7	6	<5	10	2	1,077	<5
760	1920 KN	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5
761	1921 KN	<2	<0.5	12	26	59	15	<5	10	<1	207	<5
762	1922 KN	<2	<0.5	12	37	7	31	<5	230	4	195	<5
763	1923 KN	<2	<0.5	13	16	107	9	<5	10	3	150	<5
764	1924 KN	<2	<0.5	6	12	17	<5	<5	30	<1	172	<5
765	1925 KN	<2	<0.5	4	71	26	12	<5	260	<1	129	<5
766	1926 KN	<2	<0.5	25	10	127	5	<5	20	2	171	<5
767	1927 KN	<2	<0.5	40	8	106	<5	<5	10	2	70	<5
768	1928 KN	<2	<0.5	<2	12	20	6	<5	10	1	179	<5
769	1929 KN	<2	<0.5	<2	13	32	7	<5	10	<1	217	<5
770	1930 KN	<2	<0.5	3	20	34	23	<5	10	2	180	<5
771	1934 KN	4	<0.5	4	16	32	5	<5	<10	<1	623	<5
772	1935 KN	<2	<0.5	<2	34	17	<5	<5	<10	2	1,083	<5
773	1936 KN	2	<0.5	36	4	76	<5	<5	10	2	113	<5
774	1937 KN	<2	<0.5	3	28	18	<5	<5	<10	1	382	<5
775	1938 KN	<2	<0.5	6	15	31	<5	<5	<10	<1	91	<5
776	1939 KN	<2	<0.5	3	11	98	<5	<5	20	<1	186	<5
777	1940 KN	<2	<0.5	2	19	17	<5	<5	20	2	277	<5
778	1941 KN	<2	<0.5	33	5	92	<5	<5	30	2	100	<5
779	1942 KN	<2	<0.5	8	35	11	53	<5	30	3	75	<5
780	1943 KN	<2	<0.5	42	30	69	41	<5	250	12	1,596	<5
781	1944 KN	<2	<0.5	<2	12	31	<5	<5	20	<1	1,247	<5
782	1945 KN	<2	<0.5	22	<3	80	<5	<5	30	1	78	<5
783	1946 KN	<2	<0.5	5	10	30	<5	<5	30	3	62	<5
784	1947 KN	<2	<0.5	40	4	83	<5	<5	30	<1	76	<5
785	1948 KN	<2	5.1	10	56	109	61	<5	300	1	164	<5
786	1949 KN	<2	<0.5	<2	3	80	6	<5	20	2	21	<5
787	1950 KN	<2	<0.5	168	7	83	<5	<5	10	<1	126	<5
788	1951 KN	<2	<0.5	104	3	78	<5	<5	30	2	136	<5
789	1952 KN	23	<0.5	9	21	3	161	9	80	4	126	<5
790	1953 KN	121	1.3	10	41	<2	528	26	110	6	607	21
791	1954 KN	<2	0.8	30	297	40	9	<5	20	<1	146	<5
792	1955 KN	17	13.5	31	280	10	21	<5	60	2	85	<5
793	1956 KN	6	22.7	143	1,672	148	33	<5	100	87	74	<5
794	1957 KN	7	<0.5	17	75	28	13	<5	30	7	45	<5
795	1958 KN	6	0.5	59	7	286	118	<5	50	<1	58	<5
796	1960 KN	<2	<0.5	<2	11	43	6	<5	<10	2	45	<5
797	1961 KN	410	9.3	93	136	24	3,210	93	<10	224	1,441	44
798	1962 KN	2	<0.5	22	74	356	37	<5	<10	2	122	<5
799	1970 MH	2	7.5	31	590	3,021	61	<5	290	<1	97	<5
800	1971 MH	<2	2.3	11	228	637	36	<5	170	2	357	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
801	1972 MH	<2	12.4	10	2,135	1,115	47	<5	410	2	334	<5
802	1978 MH	<2	<0.5	4	140	1,852	<5	<5	100	<1	412	<5
803	1979 MH	<2	0.5	4	101	1,317	<5	<5	270	2	251	<5

Appendix 9 Assay Results of Rock Samples

Appendix 10
Assay Results of Ore Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1	1090 IAR	13	118.7	16	7,515	2,249	<5	<5	490	3	1,276	<5
2	1091 IAR	46	48.5	5	4,798	1,118	365	<5	80	3	1,777	<5
3	1183 OAA	2	437.0	73	7,412	209	9	<5	400	9	2,394	<5
4	1186 OAA	2	295.0	29	5,437	829	68	<5	270	2	4,768	<5
5	1298 YSS	136	890.0	213	66,600	1,916	71	<5	320	6	55	<5
6	1299 YSS	10	315.0	535	2,395	5,757	241	15	2,420	2	5,350	<5
7	1396 MML	3	877.0	125	4,400	2,834	22	<5	360	2	6,585	<5
8	1398 MML	<2	240.0	92	5,198	611	33	<5	160	2	1,466	<5
9	1399 MML	76	646.0	2,663	13,400	2,828	100	<5	270	5	78	<5
10	1486 FMS	<2	37.7	368	9,265	2,985	7	<5	300	1	4,448	<5
11	1489 FMS	<2	251.0	159	2,585	898	12	<5	70	2	5,169	<5
12	1490 FMS	7	399.0	75	9,196	1,058	13	<5	110	6	4,721	<5
13	1492 FMS	24	287.0	61	25,000	4,503	61	<5	80	4	5,968	<5
14	1577 GQC	<2	13.3	44	925	3,400	49	<5	160	<1	4,988	<5
15	1609 TI	<2	<0.5	30	371	12,109	10	<5	450	3	2,143	<5
16	1611 TI	10	17.8	439	42,400	9,665	16	6	1,110	5	159	<5
17	1799 MH	<2	2,157.0	283	4,000	9,000	59	<5	930	2	9	<5
18	1931 KN	48	3.7	13,814	1,167	5,534	114	11	70	2	150	<5
19	1932 KN	846	10.3	38	94	33	129	91	10	15	1,410	18
20	1933 KN	2,970	24.2	34	130	10	224	371	10	26	2,876	43
21	1963 MH	2	12.6	21	9,500	4,383	191	<5	490	3	39	<5
22	1964 MH	5	25.0	43	2,456	3,628	115	<5	460	<1	472	<5
23	1965 MH	31	140.0	287	15,200	15,639	288	13	1,240	3	23	<5
24	1966 MH	21	24.2	55	2,904	7,801	859	11	1,670	<1	72	<5
25	1967 MH	2	44.7	128	1,325	2,243	121	<5	690	2	28	<5
26	1968 MH	8	39.0	65	2,281	4,528	259	6	560	2	21	<5
27	1969 MH	2	81.5	249	3,150	4,373	61	<5	1,100	1	30	<5
28	1973 MH	2	3.0	76	5,501	1,306	7	<5	400	<1	113	<5
29	1974 MH	<2	0.6	34	2,519	1,648	79	<5	150	<1	224	<5
30	1975 MH	<2	55.8	148	8,035	4,538	30	<5	490	3	134	<5
31	1976 MH	<2	6.9	174	11,300	2,825	44	<5	860	1	136	<5
32	1977 MH	<2	9.3	12	3,134	1,047	59	<5	530	4	86	<5

Appendix 10 Assay Results of Ore Samples