1999 Exploration Program

on the

Atty Property

Claims:	Claim Name	Tenure Number
	A1	338121
	A2	338123
	A3	338124
	A4	338125
	A5	338126
	A6	338127
	A7	338128
	A1991	368386
	AT9910	300390
	AT9911 AT0012	300390
	AT002	368387
	AT993	368388
	AT994	368389
	AT995	368390
	AT996	368391
	AT997	368392
	AT998	368393
	AT999	368394
	ATTY 3	241922
	ATTY 4	241938
	ALIY 5	311160
	ALLY /	330410
Mining Division:	Omineca	
NTS Map Sheet:	94 E 2	
Latitude:	57° 06' N	
Longitude:	126° 41' W	
Owner of Claims:	Electrum Resourc	e Corporation
Project Operator:	Finlay Minerals Li	mited
Consultant:	New Caledonian (
Report by:	P.A. Ronning, P.E	n al XV X Kara Ne (N. S. Karana and Karana) 1991 - Angela Sana ang karana ang 1992 - Ang karana ang ka
Date of Report:	December 1999	••••

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I. Summary and Conclusions

Placer gold was discovered in the Toodoggone area in the 1920's. The modern era of exploration in the district began with regional prospecting and geochemical programs in the 1960's which led to the discovery of several porphyry copper prospects, found primarily with the upper Triassic Takla Group volcanic rocks. A further outcome of the 1960's work was a flurry of exploration for epithermal gold-silver deposits in the 1980's. These deposits are related to and for the most part are found within the lower Jurassic Toodoggone Formation, consisting of dacites and related pyroclastic rocks.

There is at present one major producing mine, the Kemess porphyry copper-gold deposit, at the southern edge of the district. A small gold-silver deposit, the Baker Mine, produces sporadically.

Quartz veins bearing base and precious metal mineralization on what is now the Atty property were discovered in the 1960's. In 1982 a gold and silver bearing, low-sulphidation epithermal style silicified zone, the Awesome showing, was discovered on what is at present the Atty 5 claim.

During the 1999 field program work was undertaken on the southwest and northwest parts of the property, on the Atty 4, Atty 3, AT991, Atty 5, Atty 7, A1, A4, A5 and A6 claims. Work consisted of geochemical soil sampling, rock chip sampling, reconnaissance geology and prospecting.

The southwest part of the property, including the Atty 4, Atty 3 and AT991 claims, contains numerous mesothermal base and precious metal occurrences, within an area that is almost 2 kilometers east-west and about half a kilometer north-south. Most of the known mineralization is in or near quartz veins. Also present is a prominent colour anomaly covering about a tenth of a square kilometer, that is due to oxidation of a zone of quartz-sericite-pyrite alteration. Extensive soil sample coverage indicates the presence of a zone of relatively high copper and gold values in and around the colour anomaly with a peripheral area containing relatively high copper, lead, zinc and silver values.

The base and precious metal veins combined with the pattern of metal dispersion in the soils suggests that porphyry copper-gold style mineralization could be present in the southwest part of the Atty property. A program of further soil sampling, orientation testing of geophysical techniques and refinement of the geological mapping is recommended.

II. Introduction

A. Location and Access (see Figure 1)

The Atty Claims are located about 260 km due north of Smithers, B.C., in the Toodoggone River Area. They are centered at latitude 57°06' north and longitude 126°41' west. They lie in the central part of NTS sheet 94 E 2.

The Omineca Mining Access Road crosses the Finlay River about 10 km. west of the property. Vehicular access to the property itself is available only by helicopter. During the 1999

field season the two day field campaign was done using daily helicopter flights from an exploration camp on Jock Creek, about 22 kilometers northwest of the Atty.

B. Physiography

The claim block straddles the broad valley of Attycelly Creek, whose elevation is about 1,300 meters above sea level. Surrounding hills rise to 2,000 meters. The terrain is moderate to steep. Some of the areas of interest are difficult to explore due to cliffs.

The valley of Attycelly Creek is covered in grasses and buckbrush. Slopes are forested with conifers to about 1,700 meters, above which are found alpine grasses and dwarf conifers.

C. Property Definition

1. Claims

The claims that make up the Atty Property are listed in Table 1, which follows:

Tenure Number	Claim Name	Issue Date	Good Standing To	Units
338121	A1	17-Jul-95	17-Jul-01	1
338123	A2	17-Jul-95	17-Jul-01	1
338124	A3	17-Jul-95	17-Jul-01	1
338125	A4	26-Jul-95	26-Jul-00	1
338126	A5	26-Jul-95	26-Jul-00	1
338127	A6	26-Jul-95	26-Jul-00	1
338128	A7	26-Jul-95	26-Jul-00	1
368386	AT991	9-Apr-99	09-Apr-00	12
368395	AT9910	9-Apr-99	09-Apr-00	1
368396	AT9911	9-Apr-99	09-Apr-00	1
368397	AT9912	9-Apr-99	09-Apr-00	1
368387	AT992	9-Apr-99	09-Apr-00	1
368388	AT993	9-Apr-99	09-Apr-00	1
368389	AT994	9-Apr-99	09-Apr-00	1
368390	AT995	9-Apr-99	09-Apr-00	1
368391	AT996	9-Apr-99	09-Apr-00	1
368392	AT997	9-Apr-99	09-Apr-00	1
368393	AT998	9-Apr-99	09-Apr-00	1
368394	AT999	9-Apr-99	09-Apr-00	1
241922	ATTY 3	17-Apr-90	17-Apr-02	6
241938	ATTY 4	17-Apr-90	17-Apr-03	12
311160	ATTY 5	10-Jul-92	10-Jul-00	20
330410	ATTY 7	25-Aug-94	25-Aug-00	6
	•	Tota	I Units	74

Table 1: Claims of the Atty Property

Note: the "good standing to" dates shown are **before** the acceptance of the work described in this report





2. History

A listing of the exploration history of the area now within and adjacent to the Atty Property follows:

1929:	D.W. Chisholm staked a claim near the western boundary of the Atty claim group (Piroshco, 1982).
1969:	Kennco Explorations (Western) Ltd. did a limited program of soil geochemistry in the area of the AT991 and 2 claims (Staargaard, 1992).
1978:	Bishop Mines Ltd. did a limited program of soil geochemistry, magnetics and VLF in the area of the present AT991 and 2 claims (Staargaard, 1992).
1979:	ABM Mining did airborne magnetics and VLF cover part of the area of the present AT991 and 2 and Atty 3 and 5 and the former Atty 6 claims (Piroshco, 1982).
1980:	Inca Resources Inc. did a comprehensive program of soil sampling and VLF surveys in the area of the present AT991 and 2 and Atty 3, 4 and 5 and the former Atty 6 claims (Staargaard, 1992).
1981:	Texasgulf Canada Ltd. did geological mapping, rock chip sampling and prospecting in areas now covered by the AT991, At 2, Atty 3 and Atty 4 claims (Piroshco, 1982).
1982:	Kidd Creek Mines Ltd. did trenching, rock sampling, prospecting and mapping in the area of the present AT991 and 2 and Atty 3, 4 and 5 and the former Atty 6 claims (Staargaard, 1992).
1988:	Canadian Venture Corporation did airborne magnetic and VLF-EM surveys in the area of the present Atty 5 claim (Staargaard, 1992).
1989:	Moondust Ventures reprocessed the data from the 1988 airborne survey (Staargaard, 1992).
1990:	Electrum Resource Corporation did limited mapping, hand trenching and rock sampling in the AT991 and 2 area (Staargaard, 1992).

1992:	Electrum staked the Atty 5 and Atty 6 claims, and did a reconnaissance level program of silt, soil and rock sampling on the new claims (Staargaard, 1992).
1994:	Electrum did rock and stream sediment geochemistry and VLF-EM surveys on the Atty 5 and Atty 7 claims (Ronning, 1995).
1995:	Electrum did geochemical soil and rock chip sampling, and VLF- EM, on the Atty 7, A1, A2, A3, A4 and A6 claims (Zastavnikovich and Visser, 1995).
1997:	Electrum did geochemical stream sediment, soil and rock chip sampling as well as magnetometer and VLF-EM surveys on the Atty 4 claims (Zastavnikovich, 1998).
1998:	Electrum did geochemical soil sampling, rock chip sampling and some preliminary geological work (Ronning, 1998).

3. Economic Potential

The Atty Property contains low sulphidation epithermal style precious metal mineralization, at the Awesome prospect, and widespread mesothermal quartz or quartzcarbonate veins containing base and precious metal mineralization. It is near the North Kemess porphyry copper deposit. Potential exists for the discovery of porphyry copper-gold mineralization on the Atty property. At present, however, no potentially economic body of mineralization is known to exist on the property.

D. Work Program

During the 1999 field program the following work was undertaken. The Atty 4, Atty 3, AT991, Atty 5, Atty 7, A1, A4, A5 and A6 claims were each the site of some work:

Line Establishment	2,600 meters (nominal length) of lines were established on the Atty 3, Atty 4 and Atty 5 claims. Lines were oriented and measured using a compass and hip chain. Stations were placed every 50 meters, marked by flagging tape with station numbers written on it.
Geochemical Soil Survey	53 soil samples were collected at 50 meter intervals along the lines. Samples were collected in a conventional manner, 200 to 300 grams of soil being collected and put in a standard kraft paper soil envelope. Where possible soil was collected from the zone of iron oxide accumulation, but in the highly mobile soils of this mountainous area that wasn't always possible.

Stream Sediment Sampling	4 conventional stream sediment samples were collected where the opportunity was encountered during the course of soil sampling and geological reconnaissance.
Lithogeochemical Sampling	30 rock chip samples were collected from the Atty property. The rock samples were collected during the course of soil sampling, geological reconnaissance and prospecting. The samples are either character samples consisting of selected pieces of rock, or composite grabs consisting of several chips collected from an outcrop or area. None of the 1999 rock samples are unbiased representations of measured lengths, areas or volumes of material.
Geological Survey	Geological work done in 1999 was reconnaissance in nature, consisting primarily of describing rock sample collection sites and a first pass evaluation of a part of the claim group not previously visited by the writer. Detailed geological maps of the Atty 3, Atty 4 and AT991 area were produced by prior workers (e.g. Piroshco, 1982).
Prospecting	In addition to the prospecting that is inherently a part of geological reconnaissance and soil sampling, two prospectors spent one day in the cirque on the AT991 claim doing purposeful prospecting. 24 of the 30 rock chip samples that were collected came from this work.

III. Geology and Geochemistry

A. Regional Geological Setting

(Regional geology is adapted from Diakow et al. 1993. See Figure 3, Figure 4 and Table 2)

The Toodoggone area lies within the Intermontane Belt, between the east end of the Stikine Arch in the north and the Skeena Arch in the south. Geology along the east-northeast margin of the Stikine Terrane is dominated by successive volcano-plutonic arcs which were constructed from Permian time but most importantly during the Late Triassic and Early Jurassic. The Toodoggone area lies within a north-northwest trending corridor of Mesozoic island-arc magmatism.

Two supracrustal units are important hosts of mineralization in the Toodoggone District. Volcanics of the Takla Group host the Kemess deposit and numerous porphyry prospects. The Toodoggone Formation of the Hazelton Group is the most important stratigraphic unit in terms of epithermal precious metal deposits.

A number of granodioritic to quartz monzonitic intrusives of lower Jurassic to lower Cretaceous age cut the Takla and Toodoggone Volcanics.

Period	Group	Formatio	on	Lithology
Upper and Lower Cretaceous	Sustut	Brothers Peak Tango Creek		Nonmarine conglomerate, siltstone, shale, sandstone; minor ash-tuff
			Cassiar I	ntrusions: Quartz monzonite and granodiorite
	4. <u></u>	Major Unconfor	mity	
Lower Cretaceous to Middle Jurassic	Bowser Lake			Marine and nonmarine shale, siltstone and conglomerate
	· · · ·	Conformable Co	intact	· · · · · · · · · · · · · · · · · · ·
Middle and Lower Jurassic	Spatsizi			Marine equivalent of the Hazelton Group; shale, siltstone and conglomerate, subordinate fine tuffs
	Hazelton	Toodoggone		Subaerial andesite to dacite flows and tuffs, rare basalt and rhyolite flows; subordinate volcanic siltstone to conglomerate; rare limestone lenses
			Black La monzonit	ke Intrusive Suite: Granodiorite and quartz
		Unconformit	y	
Upper Triassic	Takla			Submarine basalt to andesite flows and tuffs, minor limestone and argillite
		Unconformit	у	
Lower Permian	Asitka			Limestone, chert, argillite
		Major Terrane Bound	dary Fault	
Cambrian and Proterozoic				Siltstone, shale, sandstone, limestone; regionally metamorphosed to greenschist and amphibolite grade
from Diakow et al., 1993, after	Gabrielse et al.,	1977		

Table 2: Regional Stratigraphy

B. Mineral Deposits in the District

Mineral deposits and prospects in the Toodoggone area can be broadly categorized as volcanic-hosted epithermal gold-silver, porphyry copper-molybdenum or copper-gold, skarn and placer gold occurrences. Epithermal gold-silver and porphyry copper-gold deposits have been the most attractive exploration targets in the recent past. The Kerness South porphyry deposit is currently the most important. Some of the more significant deposits are listed in Table 3.

Name	Host Rock	Status as of August 1998	Reserves plus Production, Jan 92
Epithermal Gold-Silv	er		
Lawyers	dacite & latite of Toodoggone Fm	past producer	661,000 tonnes @ 8.4 g Au/t & 192 g Ag/t
Baker Mine	basalt & andesite of Takla Group	small scale producer	87,490 tonnes @ 13.7 g Au/t & 273 g Ag/t
Shasta	dacite & latite of Toodoggone Fm	past producer	106,300 tonnes @ 4.5 g Au/t & 250 g Ag/t
others	Toodoggone Fm	prospects & minor past production	2,628,855 tonnes @ 2.8 g Au/t
Porphyry Copper-Go	ald .	4	•
Kerness North	early Jurassic gd & qt monz intruding Hazelton & Takla groups	defined reserve, decision pending	70,000,000 tonnes @ 0.66 g Au/t & 0.18 % Cu
Kemess South	early Jurassic gd & qt monz intruding Hazelton & Takla groups	in production	206,796,000 tonnes @ 0.65 g Au/t & 0.23 % Cu
data adapted from D	iakow et al., 1993, except Kerness reserv	es, which are from Royal O	ak Mines WWW site, 1998

I RAIC 9 - EXamples of Deposits in the Toodoggone Disting



C. Local and Property Geology

1. Lithologic Units (see Figure 4)

The Atty property is underlain in part by each of the Hazelton Volcanics, four member units of the Toodoggone Formation, the Takla Volcanics and intrusive rocks contemporaneous with the Lower Volcanic Cycle of the Toodoggone Formation (the Black Lake Intrusive Suite).

The Awesome Showing on the Atty 5 claim is underlain by the Attycelly Member of the Lower Volcanic Suite of the Toodoggone Formation, described by Diakow et. al. as "crudely layered lithic-crystal tuff, lapilli tuff and local pyroclastic breccia; minor welded ash flow tuff ...etc."

The central part of the property is underlain by Takla volcanics, dominated by plagioclase and/or augite-phyric andesite to basaltic andesite flows and fragmental rocks. On the southwest facing slope on the Atty 3 and Atty 4 claims, some units of thinly layered ash tuffs exist. In the southwest corner of the Atty 4 claim a lobe of Toodoggone-age monzogranitic intrusive rock is found.

2. Structural Geology

Piroshco (1982) described the structural orientation of the Takla volcanics south of Attycelly Creek as follows:

"Takla Group volcanics in the main area of interest generally strike northeast to northwest, and dip steeply to the east. This is inferred from bedding traces and pillow attitudes in the area. Bedding and parallel schistosity indicate that the Toodoggone sequence dips moderately to the north, and a northerly striking fracture cleavage suggests that the strata are locally gently folded about north trending axes (Smitheringale, 1980).

The present writer found, based on two measurements from thinly layered ash tuff, that Takla volcanics in the area of interest on the Atty 3 and Atty 4 claims in fact strike westerly to northwesterly and dip 30° to 40° to the north or northeast.

The most prominent structural break on the Atty property is the northwest trending Wrich Fault (Figure 4), which according to Diakow et. al. (1993) has about 5 kilometers of right lateral offset. Overall the property is broken up into blocks of Triassic or Jurassic rocks by the Wrich Fault, others sub-parallel to it, and northeast trending cross faults.

Piroshco (1982) noted two distinct fracture sets within the area of the then Kem-Audrey claim group, in the area now covered by the Atty 3, Atty 4 and AT991 claims:

"They are north to northwest trending, southwesterly dipping fractures and east-west trending, southward dipping fractures. Both fracture sets are often represented by quartz veins, which are generally podiform or lensoid in character and may host base and precious metal mineralization. The veins themselves are locally displaced by as much as 30 m by fault sets oriented normal to them. Shearing and slickensides often are associated with these faults.

The present writer measured two sets of calcite veins at different locations and found that they strike northerly and dip steeply towards the east.



3. Metamorphism

Metamorphism is not an important factor on the Atty property. Takla and Toodoggone volcanics both exhibit zeolites in places, and parts of the Takla may have undergone lower greenschist facies metamorphism.

D. Mineralization

1. Types of Mineralization

Piroshco (1982) described three varieties of mineralization on what is now the southwestern part of the Atty property. Piroshco's three varieties did not encompass the Awesome Showing, which could be considered a fourth variety. Piroshco's three varieties are:

- 1. quartz-sulphide veins these are common on what are now the AT991, ATTY 3 and Atty 4 claims. They consist of massive to medium crystalline white to grey quartz veins, less than or equal to 3 meters wide, with associated galena, sphalerite, chalcopyrite and pyrite. They trend west to northwest. The "Kennco Veins" (see below) are members of this group.
- quartz-sulphide gossan zones Piroshco describes "numerous silicified zones" located in the western portion of the map area. They contain disseminated pyrite and intense quartz veining and in some instances contain traces of chalcopyrite. The zones as described by Piroshco are relatively small, less than 5 meters by 5 meters. He provides the following analyses obtained from this style of mineralization:

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ag gpt	Au ppb
56203	1,035	70	116	>50.0	96 .0	355
56266	100	320	343	36.0		470
56340	(9.9%)	460	2,700	>50.0	240.0	980
56343	70	28	184	0.4		1,210
61280	390	134	85	10.0		460
61290	20	231	400	2.8		1,950

Table 4: Analyses from Quartz-Sulphide Gossan Zones

(sample descriptions not available)

3. quartz-sulphide-oxide vein — the one example of this type is the "Inca Vein" described on page 14.

2. Kennco Veins

According to Staargaard (1992):

"The Kennco or Attycelly 1 occurrence is one of several massive quartz veins up to 3 meters wide and exposed for up to 350 meters in length that contain galena, sphalerite, chalcopyrite and pyrite. A 1978 soil survey by Bishop Mines revealed a coincident Cu-Zn-Pb-Ag soil anomaly about 400 meters long. In 1990, on behalf of Electrum Resource Corporation, Gower-Thompson and Assoc. carried out minor hand trenching and sampling on some of these veins, collecting a total of twenty-two samples ranging in width from 0.5 to 3.2 meters. Gold levels generally fell between 0.01 and 0.04 g/t, with some values of up to 0.45 g/t. Silver generally ranged between 5 and 75 g/t with a maximum of 268 g/t over 0.5 meters. Base metals were ubiquitous, with up to 1.98% Cu, 14.6% Pb, and 5.65% Zn in various samples."

Table 5 on page 16 is adapted from Gower (1990) and serves to characterize the Kennco veins.

3. Inca Veins

According to Staargaard (1992):

"At the Inca or Attycelly 2 occurrence, a 200 meter long quartz-specularite-pyrite-magnetite vein known as vein "A" and up to 1.5 meters wide contains traces of malachite. Grab samples taken by Kidd Creek Mines in 1982 contained up to 25.7 gt Au and 633 gt Ag while panel samples taken in trenches returned values of up to 7.34 gt Au and 306.9 gt Ag over 1 meter. A second pyrite-hematite-chalcopyrite-quartz vein immediately to the east is up to 4 m in width. Grab samples returned up to ~15 g Ag/t and 0.3% Cu.

"Numerous small silicified zones in the general area of the above showings contain disseminated pyrite, intense quartz veining and traces of chalcopyrite. Grab samples from some of these returned values of up to 1,950 ppb Au."

4. Awesome Prospect

According to Staargaard (1992):

"The Awesome prospect, situated within the Atty 5 claim, was found in 1982 by Kidd Creek Mines Ltd. during regional reconnaissance work. Samples of quartz float occurring over an area about 800 meters long contained up to 4,300 ppb Au and 404 ppm Ag. These were derived from a northwest trending, +200 mere long and 20 to 40 meter wide silicified zone developed in Toodoggone andesitic crystal lapilli tuff. Two narrow trenches about 25 meters apart were opened across the zone immediately upslope from the highest grade float samples. Panel sampling in the trenches returned values of up to 730 ppb Au and 58.5 ppm Ag over 0.5 meters.

"Mineralization is comprised by multiple stages of hematitic quartz vein breccia and quartzhematite veins up to 1.5 meters wide. open space filling textures are very common and often involve late stage calcite, which also tends to occur peripheral to the central silicified zone. Specularite is a common accessory mineral. Pyrite is the only sulphide mineral observed and then only infrequently.

"Several types of alteration are developed in and around the quartz veins. Pervasive silicification of varying intensity is common, particularly within a few meters of the veins. Further away, silicification is manifested in the development of quartz eyes in the host tuff. Pervasive and fracture-controlled calcite are common. In places, strongly argillized tuff has been oxidized and is limonitic. The entire zone is surrounded by an argillic propylitic envelope extending to the limits of trenching."

Sample Identifier	Rock Type	Width Represented, meters	Gold (grams per tonne)	Silver (grams per tonne)	Copper (%)	Lead (%)	Zinc (%)
Att-90-001	quartz vein	2.0	0.01	63.80	0.48	0.66	0.20
Att-90-002	quartz float	"representative"	0.18	74.00	0.093	9.00	4.05
Att-90-003	quartz vein	3.0	0.03	4.50	0.024	0.33	4.05
Att-90-004	shear zone	1.0	0.02	2.00	0.203	0.36	0.15 5.65
Att-90-005	shear zone	0.8	0.01	7.00	1 98	4 70	0.00
Att-90-006	shear zone	0.4	0.01	0.29	0 127	4.70	1.00
Att-90-007	quartz vein	1.1	0.01	43 40	0.563	0.10	3.00
Att-90-008	volcanics	0.5	0.22	268.00	0.000	14 60	1.03
Att-90-009	quartz vein	0.8	0.01	133.00	0.400	1 3 2	2.55
Att-90-010	quartz vein	1.0	0.01	39.80	0.007	1.23	0.19
Att-90-011	quartz vein	1.0	0.01	30.70	0.105	0.25	U.39
Att-90-012	altered volcanics & quartz	0.7	0.04	71.60	0.86	1,28	3.40 1.48
Att-90-013	quartz vein	3.2	0.03	68.00	0.413	2.95	0.00
Att-90-014	quartz vein	1.6	0.01	35.00	0.206	2.33	0.38
Att-90-015	quartz vein	1.6	0.02	55 30	0.200	2.41	0.35
Att-90-016	quartz vein, crush zone	1.7	0.01	17.30	0.163	0.59	0.47 0.54
Att-90-017	whitish quartz vein	1.8	0.01	7.30	0.060	0,55	0.65
Att-90-018	quartz vein	1.5	0.03	8.30	0.045	0 44	1 01
Att-90-019	quartz vein	2.0	0.15	45.10	0.273	2 30	1.21
Att-90-020	quartz vein	1.2	0.01	7 80	0.680	2.30	0.57
Att-90-021	quartz vein	1.1	0.02	56.80	0.342	0.20	0.24
Att-90-022	quartz vein	1.0	0.45	201.00	0.940	0.90	0.28 0.27

Table 5: Samples from Kennco Veins, 1990

5. Gossan Zone on the Atty 4 Claim

In 1997 and 1998 much field work took place in and around an extensive zone of rusty red-brown weathering scree with minor outcrop on the Atty Claim. A lesser amount of field work was done nearby in 1999. This area is referred to throughout this report as the "gossan zone" or "gossanous area" on the Atty 4 claim. It covers a surface area of roughly a tenth of a square kilometer, though its apparent size may be exaggerated due to downslope dispersion of the rusty coloured scree. The rust-stained rocks consist of vari-textured Takla Volcanics, andesitic to basaltic in original composition. Two specimens thought to have originally been monzonite were found (see descriptions of AJB-3 and AJB-4 in Appendix C). They exhibit varying degrees of sericite-chlorite alteration, ranging from negligible to almost complete. Less altered rocks within the gossanous zone are strongly magnetic, while more altered ones have lost their magnetism. Disseminated pyrite is present in the range 1% to 5%, with the degree of pyritization being only loosely correlative to the degree of sericite-chlorite alteration. Traces of chalcopyrite are occasionally seen. Rock samples collected from the gossanous area in 1998 do not contain metal concentrations that would normally be described as "mineralization" but the writer considers the alteration and sulphidization of this zone to be indicative of potentially mineralizing processes.

E. Results of Soil Geochemical Survey

1. Procedures

In 1999 soil sample lines were run in two distinct areas on the Atty property. One is adjacent to the northwest of the gossan zone on the Atty 4 claim. The 400 N base line of the 1997 grid was extended a further 1000 meters to the northwest, and a single wing line run from the northwest end of the base line for 850 meters to the northeast. 37 conventional soil samples were collected at 50 meter intervals along these lines.

In the other area of soil sampling, a single north-south soil line was run starting near the northwest corner of the Atty 5 Claim and extending 750 meters southward. A magnetic high feature is thought to exist west of the claim boundary on competitor's ground, and this soil line was an attempt to see if any metal concentrations of interest are associated with the magnetic feature. On this line 16 conventional soil samples were collected at 50 meter intervals.

The 1999 soil lines were placed using a hip chain and compass. Lines and sample sites were marked using flagging tape tied to trees and brush. The writer located several points on the southern lines using a hand held GPS that has an approximate accuracy of ± 50 meters. The sample locations are plotted on the accompanying maps taking into account both the chainages and the GPS readings. The illustrated placement of the lines is accurate only to within the limits of the GPS. The relationships between individual samples are accurate to within normal hip chain limits.

Figures 5n and 5s show the locations of the samples collected in 1999. Subsequent figures that show analytical results show not only the 1999 samples but a large number of soil samples from preceding years, mainly 1981, for context.

The 1999 soil samples were collected in a conventional manner, 200 to 300 grams of soil being gathered and put in a standard kraft paper soil envelope. Where possible soil was collected

from the zone of iron oxide accumulation, but in the highly mobile soils of this mountainous area that wasn't always possible. Samples were air dried at a base camp.

The soil samples were shipped to TSL Assayers Corp. of Vancouver. The laboratory analyzed them for 30 elements using the ICP technique and for gold using a fire assay preparation with an AA finish.

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2. Method of Interpretation and Data Quality

The interpretation of the soil geochemical data in the following sections rests primarily on a visual search for patterns in map view symbol plots. In the 1998 report on the Atty Project (Ronning, 1998), probability plots were used as an adjunct to the map interpretation. The analysis of probability plots is not redone in this report, as the incremental amount of new data available would not appreciably change the plots. Some of the insights gained from the probability analysis are incorporated into the discussions of the soil sample results in this report.

On the map plots of soil sample results in this report, and in the 1998 probability plot analysis, more than 1,700 prior soil sample records, mainly from 1981, have been merged indiscriminately with the new data. A rigorous treatment of the data would require a statistical study designed to reveal any systematic, artificial differences between the 1981 and the 1997-99 sample populations. No such study has been done. After working with the data set, however, the writer believes that the merged data set is of adequate quality to support the conclusions expressed herein. In the discussion that follows, note is made of those instances in which the writer suspects that apparent differences in metal concentrations may be artifacts of differing analytical techniques between 1981 and the later samples.

Although winter damage to the 1997 soil grid was extensive, a few of the 1997 stations were found in 1998 and GPS locations were obtained for them. The 1997 grid is plotted on the accompanying maps based on the GPS locations and compass sightings along the lines.

As expected, no pre-1997 soil sample sites were located in the field, and the pre-1997 grids were digitized using map locations in original reports. To save costs, deviations in the old lines that were illustrated on the original hand drawn maps aren't preserved in the digital data base used to produce the maps in this report. The pre-1997 location data used herein are of adequate quality to show patterns in metal distribution, but the location of any individual sample site may be accurate only to within a radius of about 100 meters.

3. Copper in Soils (see Figure 6n and Figure 6s)

The highest copper concentrations in soils are mainly on the southern part of the Atty property, south of Attycelly Creek. They are found on and to either side of a 1,900+ meter elevation ridge that trends northwest, in the northeast corner of the Atty 4 claim. On this ridge a number of copper-bearing veins crop out, including the Inca Veins (see section III.D.3 on page 14). On the southwest flank of the ridge, in the central part of the Atty 4 claim, is the gossanous area described in section III.D.5. Some of the highest copper values in soils are found on the lines crossing the gossanous area. The 1999 extension of the northwest-trending base line shows that moderately high copper values in soils, in the range 93 ppm to 396 ppm, persist on the southwest facing slope. Once the line of samples crosses the valley bottom to the northeast facing slope, the copper values drop off to the range 6 ppm to 42 ppm. The valley bottom marks a fault contact between rocks of the Takla Group on the northeast, where the higher copper values are, and the Hazelton on the southwest, where copper in soils is less concentrated.





4. Gold in Soils

(see Figure 7n and Figure 7s)

Higher gold values exhibit a distinct clustering on the southwest slope of the ridge on the Atty 3, Atty 4 and AT991 claims. This includes the gossanous area on the Atty 4 claim and an area downslope of the lobe of intrusive rock in the southeast corner of the Atty 4 claim (see Figure 4 for the location of the intrusive lobe).

Gold in soils indicates the same target areas as the copper, on the central to northeast part of the Atty 4 claim, with the gossanous area on Atty 4 as a focus.

5. Silver in Soils (see Figure 8n and Figure 8s)

The 1981 soil geochemical data for silver show consistently higher levels than the data from the 1997 through 1999 surveys. Thus, in the case of silver, there is concern that the merging of the older and newer data sets with no correction factors applied may not be legitimate. If there is a systematic, artificial difference between the older and newer data it is most likely to be due to differing analytical techniques.

If the silver data are taken at face value, most of the higher silver values cluster around the north end of the ridge on the Atty 3 and AT991 claims, and in the head of the cirque on the south edge of the At991 claim. The gossan area on the Atty 4 claim, where higher copper and gold values are found, has a low silver background (compare Figure 8s with Figure 7s). The relationship of silver and gold in the soils appears almost antithetical, but, to reiterate, this appearance could be an artifact of differing analytical techniques.

Considering the full soil data set, the highest concentration of silver values lies in the drainage basin of the cirque in the central part of the AT991 claim, between about 1,500 meters and 1,400 meters of elevation. The silver is accompanied by lead and zinc, and the silver-lead-zinc zone may be a reflection of the mineralization at the Kennco Veins.

6. Lead in Soils (see Figure 9n and Figure 9s)

There is a similar dichotomy of 1981 lead values compared to later ones as is found with silver, so again there is some concern that the merging of old and new data sets may not be legitimate.

The gossanous area on the Atty 4 claim, containing one of the highest clusters of copper values, contains very low lead values. In the area of 1997 and 1998 activity the higher lead values lie around the northwest tip of the ridge on the Atty 3 and AT991 claims. The reason for this is unknown, though the Inca Veins and similar showings may contain some lead. Some higher lead values are also found downslope of the lobe of intrusive rock in the southeast corner of the Atty 4 claim.

Considering the full soil data set, the highest concentration of lead values lies in the silverlead-zinc zone in the drainage basin of the cirque in the central part of the AT991 claim, between about 1,500 meters and 1,400 meters of elevation.

















7. Zinc in Soils (see Figure 10n and Figure 10s)

The spacial distribution of zinc in soils is somewhat similar to that of lead, with higher zinc values wrapping around the northern end of the ridge on the Atty 3 and AT991 claims. As in the case of lead, there appear to be some higher zinc values downslope of the lobe of intrusive rock in the southeast corner of the Atty 4 claim. One of the strongest concentrations of zinc in soils is in the cirque on the central part of the At991 claim, in the same area as high silver and lead values are found, near the Kennco Showing.

The gossanous area on the Atty 4 claim contains low zinc values.

8. Summary of Metal Distributions in Soils

The area of greatest interest as suggested by the soil sample results includes most of the Atty 4 and parts of the Atty 3 and AT991 claims. The five metals discussed are copper, lead, zinc, gold and silver. Of these, copper and gold are distributed in similar patterns on the southwest slope of a ridge on the Atty 4 claim. Relatively high values of these metals lie within and near a zone of rusty red-brown weathering scree and minor outcrop on the southwest slope. There are also relatively high values of copper and gold on parts of one sample line that traverses across the slope below a lobe of granodioritic intrusive in the southeast corner of the Atty 4 claim. The combined area of high copper and gold values covers very roughly 1.5 square kilometers. This surface area is probably larger than it might otherwise be due to an unknown but important degree of downslope dispersion.

North and northeast of the copper-gold zone, an area of relatively high lead, zinc and silver values, with copper, wraps around the northern end of the ridge on the Atty 3 and AT991 claims. High lead, zinc and silver are also found northeast of the ridge in the drainage basin of the cirque on the central part of the AT991 claim.

The line of soil samples collected in 1999 in the northwest corner of the ATTY 5 claim did not reveal any significant concentrations of copper, gold, silver, lead or zinc.

F. Results of Rock Geochemical Sampling

(see Figure 11 through Figure 16)

1. Procedures

During the 1999 field program 30 rock chip samples were collected from the Atty property. Of those, 6 are from the north end of the property on the A5, A3 and ATTY 7 claims. The remaining 24 are from the area where the ATTY 4 and AT991 claims adjoin, near the head of the cirque whose drainage runs south to north in the central part of the AT991 claim.

The rock samples are either character samples consisting of selected pieces of rock, or composite grabs consisting of several chips collected from an outcrop or area. None of the 1999 rock samples are unbiased representations of measured lengths, areas or volumes of material.

The rocks were shipped to TSL Assayers Corp. of Vancouver. The laboratory analyzed them for 30 elements using the ICP technique and for gold using a fire assay preparation with an AA finish.
Descriptions of all the samples appear in Appendix C, while analytical results are in Appendix B. Figure 11 through Figure 16 show the locations of the samples collected in 1999, with analytical results for copper, gold, silver, lead and zinc. On the figures, rock samples collected in 1998 are also plotted, in order to provide some context. The rock chip samples are too few, and were collected too selectively, for a statistical treatment of the results to be meaningful. They are discussed herein in a qualitative manner.

2. Rocks Collected on the South Part of the Atty Property

Samples ATR-1 through ATR-24 were collected in the cirque on the south-central part of the AT991 claim. Most were selected because they contained visible mineralization, variously described by the collectors as quartz veins and/or disseminated mineralization in mafic or intrusive rock.

Most of the mineralization, as described by the collectors, is similar to that in known veins on the cirque rims to the north, the Inca Vein and the Kennco Veins. The significance of the many high metal concentrations found in the 1999 samples is that they extend the known range of the vein-type mineralization to almost two kilometers in an east-west direction near the common boundary of the ATTY 4 and AT991 claims. The mineralized zone is probably at least half a kilometer wide. It is speculated that the vein mineralization is laterally or vertically peripheral to a porphyry system, and that the gossan zone on the Atty 4 claim may be the tip of the zone of disseminated sulphides associated with the porphyry.

3. Rocks Collected at the North End of the Atty Property

At the northwest corner of the A5 claim, either just on or just off the Atty property, the headwall of a small cirque is entirely underlain by a hydrothermal breccia. Sub-centimetric, sub-angular fragments in random orientation make up 40% of the rock. The fragments are vuggy, sintery silica. They are in a finely crystalline, cream-coloured groundmass that powders under a knife. All exposed and fracture surfaces of the breccia are coated with orange and deep hematitic red iron oxides.

The country rock, remnants of which are still present in the outcrops of breccia, are fine feldspar crystal ash tuffs.

Samples A99-002A and A99-003A, collected in this area, contained elevated silver, 6.4 ppm and 5.6 ppm, with slightly elevated lead, 56 and 146 ppm. Copper and gold were not notably high.

Samples NG-1 and NG-2 were collected by prospectors from gossanous outcrops in a fault zone in the northwest corner of the Atty 7 claim. NG-1 yielded 5.4 ppm silver with 178 ppm zinc, while NG-2 contained 279 ppm zinc. Copper, gold and lead were not notably high in either sample.

The remaining two samples collected on the north part of the property, A99-005A and A99-006A, were grab samples of feldspar crystal tuff. They were collected as checks from outcrops lacking visible mineralization or alteration.



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IV. Recommendations

Base and precious metal-bearing mesothermal veins and veinlets are common within the fault-bounded block of Takla volcanics on the southern part of the Atty property, in the area covered by the Atty 3, Atty 4 and AT991 claims. They are found within an area that is almost 2 km long in an east-west direction and at least half a kilometer wide in a north-south direction. In part of this area, covering about a tenth of a square kilometer, is a prominent colour anomaly produced by surface oxidation of a zone of quartz-sericite-pyrite alteration. Extensive soil sample coverage shows a concentration of relatively higher gold and copper values in and around the colour anomaly, with an outer zone of relatively higher copper, lead, zinc and silver values. These factors taken together suggest that porphyry copper-gold style mineralization may exist in the southern part of the Atty property.

The following further work is warranted:

- 1. Fill in soil sample coverage on the Atty 4 claim, using north-south oriented grid lines, initially spaced 100 meters apart with samples every 50 meters. This grid should supersede the two small grids, each with differently oriented lines, that were established and extended in 1997, 1998 and 1999.
- 2. Using the above described grid, do an orientation geophysical test on the southern part of the Atty 4 claim. The geophysical technique(s) to be employed should be decided in consultation with a qualified geophysicist. A test of the induced polarization method is one likely choice.
- 3. Compile and merge the several existing generations of geological maps and refine the mapping as necessary.
- 4. Do statistical checks and field checks of the geochemical data, with the objective of conclusively validating the merging of the different generations of geochemical data and normalizing the data to common background levels for elements of importance.

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VI. Statement of Qualifications

I, Peter Arthur Ronning, of 1450 Davidson Road, Langdale, B.C., hereby certify that:

- I am a consulting geological engineer, doing business under the registered name New Caledonian Geological Consulting. My business address is 912 - 510 West Hastings Street, Vancouver, B.C., V6B 1L8.
- 2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
- 3. I am a graduate of the University of British Columbia in geological engineering, with the degree of B.A.Sc. granted in 1973.
- 4. I am a graduate of Queen's University in Kingston, Ontario, with the degree of M.Sc. (applied) in geology granted in 1983.
- 5. I have worked as a geologist and latterly as a geological engineer in the field of mineral exploration since 1973, in many parts North and South America.
- 6. I am the author of the report entitled "1999 Exploration Program on the Atty Property" and dated December 1999.
- 7. The conclusions expressed in this report are professional opinions, based upon my own work in the subject area in 1998-99 and on sources acknowledged in the text. Having undertaken reasonable due diligence, and believing the information I have used to be correct, I nevertheless accept no responsibility for the accuracy of information that I did not personally originate.
- 8. I neither own nor control a beneficial interest in the mineral property that is the subject of this report, nor in any corporation or other entity whose value could reasonably be expected to be affected by the conclusions expressed herein, including Electrum Resource Corporation, Finlay Minerals Limited (hereinafter referred to as "Electrum and Finlay") and their affiliates. I do not expect to receive any such interest. I may inadvertently be the beneficial owner of an interest in any public corporation through participation in mutual funds over whose portfolios I have no control. I have a personal and business relationship with certain principals of Electrum and Finlay.
- 9. This report may be used by Electrum and Finlay for any lawful purpose for which it is suitable. Should it be necessary to use abridgments of or excerpts from the report, these must be made in such as way as to retain their original meaning and context. All reasonable efforts must be made to obtain my approval prior to any use of such abridgments or excerpts.

Peter A. Ronning

Appendix A: Statement of Costs

Costs for the 1999 work program are itemized in detail on the pages that follow. The total cost including all preparation, travel, field work, laboratory work and report preparation is, in round figures, \$13,100. Note that the unit cost of the work is high due to the cost of access to the site.

Summary of Expenditures Atty Project, 1999

Start Date	End Date	Paid To	Description of item	Base Cost	GST	Other Tax Total Cost
Profession	al Services	3				
27-Jul-99	27-Jui-99	Jaworski Mapping	convert archive data from NAD27 to NAD83	\$125.00	\$8.75	\$133.75
10-Jul-99	31-Jul-99	NCG Consulting	compile data, make logistical preparations, 1.8 days @ \$375	\$675.00	\$47.25	\$722.25
01-Aug-99	30-Aug-99	NCG Consulting	travel, field coordination, geological mapping, 3 days @ \$375 per day	\$1,125.00	\$78.75	\$1,203.75
01-Sep-99	31-Dec-99	NCG Consulting	drafting, data base maintenance and report writing, 5.3 days @ \$375 per day	\$1,987.50	\$139.13	\$2,126.63
Labour						
05-Aug-99	30-Aug-99	CJL Enterprises	labour, including mobilization of camp & equipment, camp construction, prospecting, soil sampling:			
			3 man days @ \$260 2 man days @ \$350	\$780.00 \$700.00	\$54.60 \$49.00	\$834.60 \$749.00
Room and	Board					
05-Aug-99	30-Aug-99	CJL Enterprises	camp @ \$40 per man day & meals @ \$25 per man day:			
			2 man days @ \$25 5 man days @ \$65	\$50.00 \$325.00	\$3.50 \$22.75	\$53.50 \$347.75

Start Date	End Date	Paid To	Description of Item	Base Cost	GST	Other Tax Total Cost
Laboratory	Services					
		TSL Assayers Van. TSL Assayers Van.	invoice 39527 re file 9V-0338 invoice 39543 re file 9V-0314	\$851.88 \$616.64	\$59.63 \$43.16	\$911.51 \$659.80
Helicopter	Flight Serv	vices				
22-Aug-99	23-Aug-99	Canadian Helicopters	invoices P196440 and P196445, 2 round trip flights from Pil Camp to Atty	\$2,916. 46	\$204.15	\$3,120.61
Commercia	al Carrier F	ares				
02-Sep-99	02-Sep-99	B.C. Ferry Corporation	two persons with vehicle returning home, 10%	\$5.00	\$0.35	\$5.35
Commerci	al Freight C	Charges				
01-Sep-99	01-Sep-99	Canadian Freightways	ship samples Smithers - Vancouver, 25%	\$20.23	\$1.42	\$21.64
17-Sep-99	17-Sep-99	Argus Carriers	deliver cut samples from lab to office, 25%	\$1.81		\$1.81
Hotels						
05-Aug-99	30-Aug-99	NCG Consultants	3 hotel stays enroute to/from field,10%	\$18.00	\$1.26	\$\$1.44 \$20.70
Meals						
04-Aug-99) 30-Aug-99) NCG Consultants	meals for 2 persons travelling to/from field by road, 10%	\$17.00	\$0.60	\$17.60

Start Date Charges fo	End Date or Use of Vehi	Paid To icles and Equipment	Description of Item	Base Cost	GST	Other Tax	Total Cost
04-Aug-99	30-Aug-99 N	CG Consulting	vehicle licence number 1776 AE; 4x4 PU truck & camper, \$2,000 per month x 2/31	\$129.03	\$9.03		\$138.06
05-Aug-99	30-Aug-99 C	JL Enterprises	Ford diesel 4x4, 10% of 3 weeks @ \$125	\$37.50	\$2 .63		\$40.13
			Ford diesel 4x4, 10% of 9 days @ \$75	\$67.50	\$4.73		\$72.23
			Ford diesel 4x4, 10% of 3,000 km @ \$0,25	\$75.00	\$5.25		\$80.25
05-Aug-99	30-Aug-99 C	JI Enterprises	Ford PU, 10% of 2 weeks @ \$125	\$25.00	\$1.75		\$26.75
00-//ug-00	00 / log 00 0	or Enterprises	Ford PU, 10% of 3 days @ \$75	\$22.50	\$1.58		\$24.08
			Ford PU, 10% of 2,250 km @ \$0.25	\$56.25	\$3.94		\$60.19
Vehicle O	peration						
04-Aug-99	02-Sep-99 N	ICG Consulting	vehicle licence number 1776 AE; pickup truck & camper, fuel & other consumables, 10%	\$43.00	\$2.48	\$0.43	\$45.91
Telephone	e Charges						
05-Aug-99	05-Aug-99 N	ICG Consulting	phone calls from hotel, 10%	\$0.15	\$0.01		\$0.16
07-Aug-99) 15-Aug-99 C	UL Enterprises	satellite phone rental, 10 % of 1 week @ \$50	\$5.00	\$0.3 5	5	\$5.35
15-Aug-99) 30-Aug-99 (UL Enterprises	satellite phone rental, 10 % of 2 weeks @ \$50	\$10.00	\$0.70)	\$10.70
07-Aug-99	9 30-Aug-99 (CJL Enterprises	satellite phone air time charges, 10%	\$70.03	\$4.90	\$4.90	\$79.84
Data Purc	hases						
15-Jul-99	9 03-Aug-99 N	NCG Consulting	purchase claim maps, paper topographic maps & digital topographic data	\$1,217.93	\$127.05	5 \$127.26	\$1,472.23

Start Date End Date Expendable Supplies	Paid To	Description of Item	Base Cost	GST	Other Tax ⁻	Total Cost
22-Jul-99 22-Jul-99 06-Aug-99 06-Aug-99 07-Aug-99 30-Aug-99 07-Aug-99 30-Aug-99 07-Aug-99 30-Aug-99	 NCG Consultants NCG Consultants CJL Enterprises CJL Enterprises CJL Enterprises CJL Enterprises 	field supplies groceries soil sample bags flagging tape plastic rock sample bags	\$5.00 \$5.00 \$25.00 \$33.00 \$50.00	\$0.35 \$1.75 \$2.31 \$3.50	\$0.35 \$0.35 \$1.75 \$2.31 \$3.50	\$5.70 \$5.35 \$28.50 \$37.62 \$57.00
		Total Project Cost				\$13,120.29

Appendix B: Analytical Results

The following pages contain print-outs of analytical results for samples collected in 1999. The data were received in electronic form from TSL Assayers Corp., and are stored in an electronic data base maintained by Finlay Minerals Ltd. Original, signed paper copies of the analytical certificates are available for inspection at the offices of Finlay Minerals Ltd. and TSL Assayers Corp.

Rock Sample Results 1999

Anniyses by TBL Assayers, 0202 Sherbreaks a Street, Vancouver, D.C., YEX 4EX, phone (004) 227-3430. This is a print-out of data received and a tored alcora initially. Brighed, signed contificates are an file with Finley Minerale Ltd. and with TSL. The symbol "-" Cunings algot indicates "loss tham"

Sample Name	Ag ppm	N %	As ppm	Ba pom	Be ppm	Bi ppm	Ca %	Çd ppm	Co ppm	Cr ppm	Fe %
TSL Assayers File Number	9V0341RJ										
A99-002A	6.4	0.42	25	390	-0.5	10	0.01	-1	-1	11 6	3.61
A99-003A	5.6	0.67	25	140	-0.5	-5	-0.01	-1	2	128	1.81
A99-005A	-0.2	1.15	5	90	-0.5	-5	1.67	-1	10	46	4.04
A99-006A	-0.2	1.33	5	80	-0.5	-5	1.98	-1	10	4 7	3.71
ATR-1	~0.2	1.53	-5	160	0.5	-5	0.25	-1	8	35	4 .1
ATR-10	13.6	1.65	-5	110	-0.5	25	1.45	7	28	233	10.17
ATR-11	1.6	1.33	-5	100	-0.5	-5	0.85	-1	63	137	4.13
ATR-12	0.2	0.88	10	80	-0.5	-5	0.9	-1	4 5	153	2.71
ATR-13	1.2	1.87	75	50	-0.5	-5	2.06	-1	154	159	9
ATR-14	3	1.07	35	50	-0.5	5	1.14	-1	216	104	15
ATR-15	0.6	0.84	-5	30	-0.5	-5	2.86	20	49	152	6.54
ATR-16	-0.2	1.14	-5	100	-0.5	-5	0.79	-1	18	117	3.53
ATR-17	0.2	1.4	-5	50	-0.5	-5	1.35	-1	34	166	6.51
ATR-18	4	0.22	5	50	-0.5	5	0.13	1	7	288	5.81
ATR-19	41.4	2.94	5	30	-0.5	70	0.26	100	20	214	9.56
ATR-2	0.6	1.58	25	2690	-0.5	-5	0.45	-1	14	165	3.83
ATR-20	46.8	1.25	-5	20	-0.5	75	0.5	100	14	140	10.52

Sample Name	Са ррпа	Gu %	K %	Mg X	Ma ppa	Mo ppm	Na %	Ni pynt	P ppm	Ph ppm	Se ppm
TSL Assayers File Number	9V0341RJ										
A99-002A	43		0.01	0.01	20	8	0.01	4	240	56	5
A99-003A	47		0.03	0.01	25	2	0.01	5	310	1 4 6	15
A99-005A	4		0.21	1.18	1185	-2	0.03	4	920	10	5
A99-006A	6		0.17	0.92	1675	-2	0.04	4	870	10	5
ATR-1	-1		0.2	1.25	920	-2	0.03	4	770	14	5
ATR-10	2232	0.21	0.12	0.73	2555	2	0.01	8	4 10	104	10
ATR-11	1802	0.172	0.26	0.82	540	10	0.04	12	500	18	5
ATR-12	251		0.16	0.68	300	2	Q.05	8	800	14	-5
ATR-13	1512	0.147	0.17	1.67	735	6	0.19	95	1030	36	5
ATR-14	1130	0.11	0.08	1.09	370	-2	0.03	66	1000	50	10
ATR-15	338		0.09	1	10000	-2	0.05	38	1040	2156	5
ATR-16	144		0.13	0.96	325	2	0.08	6	840	12	-5
ATR-17	324		0.12	1.09	395	-2	0.12	36	1000	14	5
ATR-18	358		0.02	0.07	115	6	0.01	12	130	38	5
ATR-19	3957	0.392	0.07	2.08	4185	30	-0.01	26	750	1816	10
ATR-2	55		0.11	1.14	650	-2	0.02	15	500	16	5
ATR-20	2968	0.276	0.05	0.71	1610	28	0.01	14	4 10	2650	10

Sample Name	Sc ppm	\$n ppm	Sr ppm	Π%	Y ppm	W yym	Y ppm	Zn ppm	Zr ppm	Au ppb	Au got
SL Assayers File Number	9V034	41RJ									
A99-002A	1	-10	51	-0.01	113	-10	-1	-1	6	9	
A99-003A	2	-10	66	0.01	205	-10	2	11	7	6	
A99-005A	5	-10	30	0.16	43	-10	12	92	15	8	
A99-006A	6	-10	30	0.18	50	-10	13	81	14	6	
ATR-1	2	-10	16	-0.01	37	-10	11	78	13	8	
ATR-10	1	-10	11	0.01	29	-10	4	865	9	863	0.83
ATR-11	3	-10	22	0.02	58	-10	5	109	5	25	
ATR-12	5	-10	29	0.15	65	-10	6	32	11	24	
ATR-13	7	-10	57	0.28	168	-10	7	41	15	22	
ATR-14	4	-10	9	0.03	105	-10	5	48	29	32	
ATR-15	5	-10	53	0.2	174	10	5	2542	10	8	
ATR-16	6	-10	54	0.22	108	-10	8	26	13	7	
ATR-17	3	-10	82	0.28	205	-10	5	33	9	6	
ATR-18	1	-10	7	0.01	45	-10	-1	151	4	96	
ATR-19	9	-10	3	0.06	147	50	3	10000	9	116	
ATR-2	6	-10	43	0.11	95	-10	2	75	7	8	
ATR-20	3	-10	7	0.03	68	20	1	10000	9	106	

Sample Name	Ag ppm	AI %	As por	Ba ppm	Be ppm	81 ppm	Ca X	Çd pym	Co ppm	îr pom	Fe %	
ATR-21	24.6	0.97	-5	40	-0.5	40	0.65	100	17	478	9.68	
ATR-22	1.2	3.32	45	10	-0.5	-5	0.68	-1	235	135	14.68	
ATR-23	0.2	1.57	-5	10	-0.5	-5	1.64	4	25	172	5.41	
ATR-24	3.8	0.47	295	30	-0.5	-5	0.02	-1	352	4 7	15	
ATR-3	6	1.67	750	170	-0.5	25	0.11	-1	120	15	15	
ATR-4	6.8	3.16	30	100	-0.5	-5	5.93	-1	35	422	7.18	
ATR-5	0.8	0.08	30	950	-0.5	-5	0.02	-1	2	128	1.31	
ATR-6	1.2	1.01	180	1050	-0.5	-5	0.32	-1	9	84	4.49	
ATR-7	16	1.54	-5	270	-0.5	-5	7.56	4	118	105	12.24	
ATR-8	3.2	1.38	-5	150	-0.5	10	0.43	-1	18	154	6.27	
ATR-9	5.2	0.71	5	110	-0.5	10	1.51	1	15	247	4.19	
NG-1	5.4	1.48	-5	70	-0.5	-5	0.1	2	10	42	4.81	
NG-2	0.6	2.33	-5	110	-0.5	-5	0.76	2	21	21	6.82	

Sample Name	Cu ppm	Cu %	K%	Mg %	Nin ppm	No ppm	Na %	N ppm	P ppm	Pb ppm	Sti pym
ATR-21	946		0.06	0.65	1655	-2	0.01	15	290	1994	15
ATR-22	140		0.04	3	1215	44	0.01	73	1120	58	10
ATR-23	90		0.03	1.9	615	-2	0.05	26	820	20	5
ATR-24	870		0.12	0.42	90	4	0.01	35	790	78	15
ATR-3	4782	0.482	0.1	0.7	300	16	0.01	36	860	112	10
ATR-4	6601	0.651	0.04	4.01	1655	-2	0.01	110	660	44	10
ATR-5	76		0.11	0.02	25	2	0.01	6	80	14	5
ATR-6	125		0.39	0.14	80	2	0.02	10	700	24	25
ATR-7	10000	2.55	0.03	1.32	970	4	0.01	75	1300	82	10
ATR-8	216		0.18	0.57	1620	8	0.01	6	430	90	5
ATR-9	203		0.14	0.24	825	8	0.01	6	250	114	5
NG-1	5		0.11	1.57	2005	-2	0.03	5	610	66	5
NG-2	18		0.08	2.57	2530	-2	0.07	5	1240	30	-5

Sample Name	Se ppm	\$n ppm	Sr ppn	ПХ	V ppm	W ppm	Y jupm	Zn ppm	Zr ppm	Au ppb	Au gypt
ATR-21	2	-10	5	0.01	43	250	2	10000	8	94	
ATR-22	5	-10	126	0.15	117	-10	-1	331	13	41	
ATR-23	4	-10	57	0.31	143	-10	6	391	9	5	
ATR-24	4	-10	5	0.25	240	-10	-1	24	19	97	
ATR-3	9	-10	31	0.12	206	-10	1	39	20	235	
ATR-4	15	-10	59	0.05	157	-10	5	100	7	67	
ATR-5	1	-10	285	0.01	11	-10	-1	-1	1	10	
ATR-6	6	-10	29	0.1	75	-10	2	38	6	7	
ATR-7	8	-10	301	0.13	17 4	-10	6	47	12		7.04
ATR-8	2	-10	11	0.02	29	-10	4	174	7	156	
ATR-9	1	-10	9	0.01	15	-10	4	151	5	220	
NG-1	6	-10	7	0.01	90	-10	7	178	10	28	
NG-2	17	-10	28	0.48	264	-10	13	279	12	6	

Soil Sample Results 1999

Analyses by TSL Aussynra, 6202 Shorbrooks a Straat, Vancouver, B.C., VGX 450, phone (804) 327-3430. This is a print-set of data received and sterad almotronically. Brighal, signed partificates are on file with Fiskay Minorals Ltd. and with TSL. The symbol "-" Unines sign) indicates "less them"

Sample Name	Ag ppre	AI %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cel ppm	Ca ppm	Cr ppn	Fe %
151. Assayers File Number 9	V0338SJ										
10+00 W 10+00 N	-0.2	1.77	-5	80	-0.5	-5	0.32	1	10	23	5.19
10+00 W 10+50 N	0.8	2.8	5	190	0.5	-5	1.31	1	16	19	5.55
10+00 W 11+00 N	-0.2	2.12	-5	180	-0.5	-5	0.4	1	11	26	4.42
10+00 W 11+50 N	0.4	1.96	-5	170	-0.5	-5	0.17	1	9	28	5.39
10+00 W 12+00 N	0.2	2.97	-5	120	-0.5	-5	0.21	1	13	29	7.79
10+00 W 12+50 N	0.4	2.88	-5	110	-0.5	-5	0.1	-1	9	28	5.75
10+00 W 4+00 N	0.4	4.37	5	50	-0.5	-5	1. 4 1	1	15	22	5.75
10+00 W 4+50 N	0.2	2.27	-5	100	-0.5	-5	0.13	-1	6	14	4.06
10+00 W 5+00 N	-0.2	4.22	-5	100	-0.5	-5	0.33	-1	7	20	5.15
10+00 W 5+50 N	0.6	5.46	-5	90	-0.5	-5	0.39	-1	7	24	5.3
10+00 W 6+00 N	-0.2	1.73	-5	90	-0.5	-5	0.16	-1	8	19	5.18
10+00 W 6+50 N	-0.2	2.19	-5	90	-0.5	-5	0.25	1	9	20	5.5
10+00 W 7+00 N	0.2	1.92	-5	90	-0.5	-5	0.17	1	9	23	6.54
10+00 W 7+50 N	0.2	1.83	50	110	0.5	-5	2.91	-1	13	29	3.52
10+00 W 8+00 N	1	3.52	5	250	1	-5	2.41	3	11	31	4.8
10+00 W 8+50 N	1.2	2.76	95	180	1	-5	2.56	7	12	64	3.05
10+00 W 9+00 N	-0.2	2.28	-5	90	-0.5	-5	0.21	1	10	22	3.67

Sample Name	Cuppn	K%	Mg %	Mn ppni	Mo ppm	Na X	Ni ppm	P ppm	Pb ppm	Sto ppm
Issayers File Number 9 ⁹	V0338SJ									
10+00 W 10+00 N	16	0.08	0.64	395	-2	0.01	14	850	14	-5
10+00 W 10+50 N	183	0.12	0.82	1760	-2	0.01	13	1180	22	5
10+00 W 11+00 N	252	0.06	0.56	700	-2	0.01	11	480	16	5
10+00 W 11+50 N	29	0.07	0.67	4 70	-2	0.01	10	660	16	5
10+00 W 12+00 N	48	0.05	0.7 9	800	-2	0.01	14	920	18	5
10+00 W 12+50 N	21	0.05	0.81	365	-2	0.01	11	960	14	5
10+00 W 4+00 N	63	0.09	0.75	760	2	0.03	15	1250	18	5
10+00 W 4+50 N	8	0.04	0.32	270	-2	0.02	6	600	18	-5
10+00 W 5+00 N	14	0.04	0.44	310	-2	0.01	10	780	8	5
10+00 W 5+50 N	19	0.04	0.46	315	-2	0.01	10	1020	8	5
10+00 W 6+00 N	12	0.04	0.54	355	-2	0.01	10	860	12	-5
10+00 W 6+50 N	16	0.04	0.62	410	-2	0.01	12	540	12	5
10+00 W 7+00 N	13	0.03	0.53	360	-2	0.01	12	480	16	5
10+00 W 7+50 N	85	0.05	0.45	405	6	0.02	12	1600	20	5
10+00 W 8+00 N	157	0.09	0.75	1950	4	0.01	19	3000	14	5
10+00 W 8+50 N	628	0.08	0,77	1710	6	0.02	17	2250	18	5
10+00 W 9+00 N	32	0.06	0.82	470	-2	0.01	14	340	10	5

Sample Name	Sc ppm	Sn ppm	Sr ppm	ПХ	V ppm	W ppm	Y ppm	Zn ppm	Zr ppet	Au ppb
Assayers File Namber	9V03	38SJ								
10+00 W 10+00 N	3	-10	34	0.17	143	-10	3	54	4	15
10+00 W 10+50 N	10	-10	66	0.08	139	-10	42	45	4	40
10+00 W 11+00 N	3	-10	32	0.07	128	-10	3	47	3	10
10+00 W 11+50 N	3	-10	17	0.05	135	-10	3	58	3	13
10+00 W 12+00 N	3	-10	39	0.11	228	-10	3	75	5	12
10+00 W 12+50 N	3	-10	13	0.02	143	-10	2	68	3	18
10+00 W 4+00 N	3	-10	125	0.11	17 4	-10	4	58	4	22
10+00 W 4+50 N	2	-10	28	0.14	121	-10	3	44	5	9
10+00 W 5+00 N	3	-10	41	0.14	120	-10	3	47	8	8
10+00 W 5+50 N	4	-10	46	0.15	128	-10	4	48	10	10
10+00 W 6+00 N	3	-10	25	0.21	168	-10	3	50	4	9
10+00 W 6+50 N	3	-10	31	0.18	168	-10	4	58	5	10
10+00 W 7+00 N	3	-10	29	0.2	217	-10	3	46	6	5
10+00 W 7+50 N	2	-10	99	0.03	46	-10	6	95	4	32
10+00 W 8+00 N	6	-10	80	0.04	77	-10	19	200	11	11
10+00 W 8+50 N	8	-10	86	0.04	80	-10	28	302	9	30
10+00 W 9+00 N	4	-10	25	0,12	93	-10	4	92	4	8

Sampio Name	Ag ppræ	Al %	As yom	Ba ppm	Be ppm	H ppm	Ca %	Ci ppm	Co ppm	Cr ppin	Fø %
10+00 W 9+50 N	-0.2	1.72	-5	120	-0.5	-5	0.38	1	9	21	5.24
10+50 W 4+00 N	0.8	4.34	25	30	-0.5	-5	3.84	4	28	63	3.92
11+00 W 4+00 N	0.4	4.91	20	40	0.5	-5	3.52	1	32	47	3.74
12+00 W 4+00 N	0.4	1.77	5	100	0.5	-5	0.78	5	10	22	2.65
12+50 W 4+00 N	0.8	1.22	15	50	-0.5	-5	2.56	23	23	28	2.11
13+00 W 4+00 N	1	3.24	65	40	-0.5	-5	1.16	5	44	131	6.84
13+50 W 4+00 N	1.8	3.31	125	50	-0.5	5	1. 48	6	47	73	5.77
14+00 W 4+00 N	6.6	4.79	185	60	-0.5	5	2.37	-1	38	79	6.09
14+50 W 4+00 N	0.8	2.04	15	120	0.5	-5	1.72	2	11	21	2.94
15+00 W 4+00 N	0.8	2.57	65	150	0.5	-5	1.81	-1	12	28	3.82
15+50 W 4+00 N	-0.2	3.96	-5	90	0.5	-5	1.02	1	10	17	4.23
16+00 W 4+00 N	-0.2	3.42	-5	80	0.5	-5	1.07	-1	7	12	3.62
16+50 W 4+00 N	0.4	1.84	-5	120	-0.5	-5	0.25	1	9	23	6.55
17+00 W 4+00 N	-0.2	0.94	-5	80	-0.5	-5	0.07	-1	3	8	2.01
17+50 W 4+00 N	-0.2	1.31	-5	80	-0.5	-5	0.13	-1	6	13	4.42
18+00 W 4+00 N	-0.2	2.19	-5	120	-0.5	-5	0.19	1	10	22	5.82
8+00 W 4+00 N	0.4	4.03	30	60	-0.5	-5	0.9	-1	22	27	6.43
8+50 W 4+00 N	0.4	4.37	25	70	-0.5	-5	0.62	-1	30	36	6.8
9+00 W 4+00 N	0.6	4.81	25	40	-0.5	-5	0.34	-1	19	31	5.94
9+50 W 4+00 N	0.2	3.69	15	70	-0.5	-5	0.76	-1	16	20	5.62

Sample Name	Cu ppm	K%	Mg X	Min ppm	Ne ppm	Na %	Ni ppen	P ppm	Pb ppm	Sb ppm
10+00 W 9+50 N	16	0.07	0.56	410	-2	0.01	11	1250	12	-5
10+50 W 4+00 N	271	0.15	1.23	1705	-2	0.02	27	1100	26	5
11+00 W 4+00 N	218	0.15	0.96	1765	-2	0.01	22	1410	22	5
12+00 W 4+00 N	93	0.09	0.27	810	-2	0.02	11	1850	28	-5
12+50 W 4+00 N	146	0.09	0.48	2710	-2	0.02	12	1450	100	-5
13+00 W 4+00 N	178	0.06	2.04	3315	-2	0.01	38	770	140	5
13+50 W 4+00 N	288	0.08	1.41	4345	-2	0.01	24	1280	136	5
14+00 W 4+00 N	398	0.06	1.77	2830	-2	0.02	27	1070	156	5
14+50 W 4+00 N	123	0.05	0.53	925	-2	0.01	12	1220	16	5
15+00 W 4+00 N	142	0.07	0.78	830	2	0.01	17	1290	18	-5
15+50 W 4+00 N	42	0.06	0.68	760	4	0.01	9	1020	16	5
16+00 W 4 +00 N	19	0.06	0.5	540	2	0.01	5	710	12	-5
16+50 W 4+00 N	25	0.05	0.54	435	2	0.02	9	830	18	-5
17+00 W 4+00 N	2	0.03	0.06	105	-2	0.01	2	190	10	-5
17+50 W 4+00 N	6	0.03	0.21	230	-2	0.01	5	400	12	-5
18+00 W 4+00 N	15	0.04	0.61	390	-2	0.01	12	740	12	-5
8+00 W 4 +00 N	55	0.06	1.12	1045	-2	0.02	20	1160	20	5
8+50 W 4+00 N	104	0.06	0.98	700	2	0.02	28	1020	18	5
9+00 W 4+00 N	117	0.04	0.85	600	-2	0.02	20	910	14	5
9+50 W 4 +00 N	58	0.09	0.61	455	2	0.03	17	750	18	5

Sample Name	Se ppm	Sn ppm	Sr ppn	ПХ	¥ ppm	W ppm	Y ppm	Zn ppm	۲ ppm	Au ppb
10+00 W 9+50 N	3	-10	41	0.16	145	-10	4	61	4	15
10+50 W 4+00 N	7	-10	206	0.11	101	-10	5	213	5	15
11+00 W 4+00 N	5	-10	221	0.06	95	-10	4	131	4	68
12+00 W 4 +00 N	-1	-10	74	0.01	86	-10	2	99	2	10
12+50 W 4+00 N	2	-10	55	0.02	43	-10	4	460	2	52
13+00 W 4 +00 N	11	-10	92	0.19	207	-10	4	623	6	66
13+50 W 4 +00 N	8	-10	104	0.12	135	-10	4	452	5	56
14+00 W 4+00 N	12	-10	155	0.13	146	-10	8	694	8	243
14+50 W 4+00 N	3	-10	63	0.05	69	-10	4	97	3	10
15+00 W 4+00 N	5	-10	67	0.05	83	-10	8	153	6	46
15+50 W 4+00 N	4	-10	110	0.08	103	-10	7	70	3	9
16+00 W 4+00 N	3	-10	121	0.1	90	-10	4	57	3	6
16+50 W 4+00 N	3	-10	60	0.2	213	-10	3	59	5	6
17+00 W 4+00 N	1	-10	20	0.13	83	-10	2	11	2	5
17+50 W 4+00 N	1	-10	29	0.16	155	-10	2	24	3	7
18+00 W 4+00 N	3	-10	27	0.22	146	-10	3	59	6	4
8+00 W 4+00 N	4	-10	103	0.14	174	-10	4	92	5	12
8+50 W 4+00 N	5	-10	74	0.15	153	-10	4	70	6	31
9+00 W 4 +00 N	5	-10	41	0.17	151	-10	4	70	6	31
9+50 W 4+00 N	4	-10	70	0.23	198	-10	3	79	6	96

Sample Name	Ag ppn	ALX	As per	Ba ppm	Be ppm	Bi ppm	Ca X	Cd ppm	Ĉo pom	Cr ppm	Fe %
A99-001A	0.2	2.35	20	230	0.5	-5	1.2	-1	22	26	4.91
A99-004A	1	1.89	5	270	0.5	-5	1.06	-1	11	12	4.93
A99-007A	1.2	1.89	5	240	0.5	-5	1.02	-1	12	12	4.68
A99-008A	0.4	2.56	-5	130	0.5	5	0.43	3	15	20	15
AT 0+00 S	0.2	1.91	-5	210	-0.5	-5	0.38	-1	12	49	6
AT 0+50 S	-0.2	2.36	-5	100	-0.5	-5	0.11	-1	10	49	6 .1
AT 1+00 S	-0.2	2.47	-5	90	0.5	-5	0.12	-1	11	69	6.85
AT 1+50 S	-0.2	2.7	-5	140	0.5	-5	0.55	1	22	83	6.99
AT 2+00 S	-0.2	2.22	-5	130	-0.5	-5	0.25	-1	10	52	6.14
AT 2+50 S	0.2	1.92	-5	140	-0.5	-5	0.38	1	7	38	4.83
AT 3+00 S	0.4	2.12	-5	170	0.5	-5	0.64	1	12	32	5.1
AT 3+50 S	0.2	2.05	-5	110	-0.5	-5	0.1	-1	7	31	4.13
AT 4+00 S	-0.2	2.37	-5	120	0.5	-5	0.11	-1	8	28	5.54
AT 4+50 S	-0.2	1.85	-5	140	-0.5	-5	0.17	1	7	33	5.09
AT 5+00 \$	2.2	2.7	5	410	0.5	-5	1.27	1	9	46	4
AT 5+50 S	2.6	2.52	5	330	0.5	-5	1.38	1	9	56	4.16
AT 6+00 S	0.2	2.4	-5	160	0.5	-5	0.15	1	10	60	5.64
AT 6+50 S	0.6	2.96	-5	140	0.5	-5	0.17	-1	10	42	5.39
AT 7+00 S	-0.2	1.76	5	190	0.5	-5	0.5	-1	8	26	4.1
AT 7+50 S	-0.2	1.79	5	120	-0.5	-5	0.2	-1	6	25	4.58

Sample Name	Cu ppm	K X	Ng X	Ma ppm	No ppm	Na X	N ppm	P ppm	Pb ppm	Sb ppn
A99-001A	80	0.12	1.03	1520	2	0.02	20	990	42	5
A99-004A	41	0.12	0.96	1195	-2	0.01	7	1160	28	5
A99-007A	25	0.11	0.95	1070	-2	0.01	8	980	24	5
A99-008A	191	0.05	0.73	525	12	0.02	1 4	1180	66	10
AT 0+00 S	30	0.07	0.82	970	-2	0.01	16	970	24	5
AT 0+50 S	15	0.06	0.88	470	-2	0.01	15	490	22	5
AT 1+00 S	20	0.07	0.98	500	-2	0.01	20	970	16	5
AT 1+50 S	4 1	0.08	1.44	1705	-2	0.01	28	1330	24	5
AT 2+00 S	22	0.1	0.71	605	-2	0.01	14	850	18	5
AT 2+50 S	23	0.09	0.61	325	-2	0.01	14	720	16	5
AT 3+00 S	38	0.12	0.73	1295	-2	0.01	14	1220	28	5
AT 3+50 S	8	0.09	0.55	710	-2	0.01	10	940	10	5
AT 4+00 S	12	0 .08	0.62	430	-2	0.01	12	800	16	5
AT 4+50 S	13	0.11	0.56	42 5	-2	0.01	12	990	16	5
AT 5+00 S	85	0.14	0.8	1120	-2	0.01	22	1300	18	5
AT 5+50 S	94	0.17	0.91	820	-2	0.01	23	1230	16	5
AT 6+00 S	54	0.09	0.72	655	-2	0.01	18	1030	16	5
AT 6+50 S	45	0.08	0.81	760	-2	0.01	15	1140	12	5
AT 7+00 S	18	Q.1	0.84	525	-2	0.01	13	610	14	5
AT 7+50 S	9	0.11	0.62	380	-2	0.01	11	1230	14	5

Sample Name	Se ppm	Sn ppm	\$7 त्राम	Π%	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppb
A99-001A	7	-10	62	0.04	102	-10	19	144	4	16
A99-004A	4	-10	57	0.02	93	-10	12	98	3	17
A99-007A	4	-10	58	0.02	89	-10	10	100	3	34
A99-008A	2	-10	67	0.06	91	-10	11	251	12	46
AT 0+00 S	2	-10	40	0.04	144	-10	4	102	3	33
AT 0+50 \$	4	-10	16	0.03	145	-10	3	67	5	9
AT 1+00 S	3	-10	13	0.02	165	-10	2	82	5	5
AT 1+50 S	5	-10	21	0.01	167	-10	5	95	5	8
AT 2+00 \$	3	-10	14	0.01	149	-10	2	82	4	10
AT 2+50 S	1	-10	24	0.01	111	-10	2	57	3	4
AT 3+00 S	2	-10	48	0.02	120	-10	5	83	3	7
AT 3+50 S	2	-10	16	0.01	103	-10	2	73	2	8
AT 4+00 S	2	-10	14	0.01	132	-10	3	81	3	15
AT 4+50 S	1	-10	19	0.01	122	-10	2	68	3	6
AT 5+00 S	6	-10	50	0.01	83	-10	33	92	3	17
AT 5+50 S	12	-10	51	0.01	91	-10	45	89	4	31
AT 6+00 S	3	-10	14	0.01	149	-10	5	75	3	6
AT 6+50 S	4	-10	17	0.01	114	-10	5	103	3	9
AT 7+00 S	3	-10	38	0.03	87	-10	11	88	2	41
AT 7+50 S	1	-10	22	0.01	96	-10	3	85	2	10

Appendix C: Descriptions of Rock Samples

The following descriptions of samples in the 50000 and A99 series are field descriptions by P.A. Ronning. Those in the AJB series are by J.J. Barakso, while those in the NG and ATR series are by L.W. Warren.

Sample Nu	mber <u>5</u> 2	265	U	TM Easting	:	637289	D. /		
Site Name	At	ty 98-01	U	TM Northin	ıg:	6328856	Date:	∠o-Jul-98	
Field Note:	s: On a n prome Also no downsi hornbio	ock promento ntory is comp oted is linely l ope from the ende porphyr	ory that follow oosed of pyro layered ash t nominal site y, not traced	vs the fall lir clastics don ruff. The be e. Between out in detai	ne up and o ninated by dding reco some tuffa I.	down slope f feldspar-hor orded is abou aceous layers	rom this p mblende c tt 50 mete s are bodie	oint. The rystal tuff. rs es of fresh	
	At the ground	nominal site i mass. Possi	is a coarse v bly laharic?	olcanic bred	cia with m	afic volcanio	: fragment	is in a mafic	
	Also at the nominal site is a minor copper showing. It is a local pod of vuggy silicification, about 20 cm. x 30 cm. x 50 cm., comprised of very irregular quartz stringers in a partially silicified groundmass. Chalcopyrite is disseminated and in 1 - 3 cm. blebs of ± 50% chalcopyrite. Overall within the pod, chalcopyrite is about 5%. Sub-centimetric quartz stringers are common in the surrounding ± 5 meter radius, but are not volumetrically significant or mineralized.								
Sample Description: grab consisting of several chips, about 1 kg. Selected for mineralization; not representative.									
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm	ו			
	10000	52	31.6	185	98				
Sample Nu	mber <u>52</u>	266	U.	TM Easting	:	637597	Data	25- 10-98	
Site Name	At	y 98-02	U	TM Northin	g:	6329120	Dale.	20-30-30	
Field Notes	: Ridge f	op site used	as an altime	ter check.					
	Outcro of 0.5 r alterati	p is complex mm to 2 mm on is commo	intermingling crystals of fe n along fract	g of hornble Idspar and I ures. Minor	nde porphy nornblende k-feldspar	yry flows and e and other n r veinlets are	l crystal tu ninerals. I e present.	ff, made up Epidote	
	Comme thick, o	on along the f calcite. The	ridge top are e calcite is co	anastomos barsely crys	ing veinlet talline and	s, less than o not visibly n	or equal to nineralized	9 5 cm 1.	
Sample De	scription	Grab of sev Roughly 1	veral chips o kg.	ver about 5	meters of	the length of	a calcite	veinlet.	
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm	•			
	41	23	1.2	26	12				

Descriptions of Rock Samples: 1 of 18 Pages

Sample Number	<u>52267</u>	UTM Easting:	637520	Dater	25- Jul-98
Site Name	Atty 98-03	UTM Northing:	6328836	buto.	20 00.00

Field Notes: At the north edge of a scree slope, about 30 meters upslope from a zone of reddish, gossanous scree. Here, the scree is grey, relatively unaltered volcanics (Takla?). However, in the grass at the edge of the scree, mounds of rubble dug out by ground squirrels are made of orange-red gossanous material. This indicates that the upper end of the alteration zone visible downslope extends at least this far uphill.

Most of the gossanous rubble is so oxidized that original textures are obscured. Remnant textures hint that the rocks originated as crystal tuff with with 0.5 mm to 2 mm crystals. Mafic crystals in the tuff may have been pyritized and then oxidized.

Sample Description: about 1 kg. of rubble collected from material dug out by ground squirrels.

	Си ррт	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	51	6	0.2	60	28			
Sample Nurr	ber <u>522</u>	68	U.	TM Easting:		637402	Date	25-Jul-98
Site Name	Atty	98-04	U	T M Northin g	J:	6328841	D 415.	20 00/00

Field Notes: At the site of a 1 m x 0.5 m rubbly gossanous outcrop surrounded by similar talus.

The gossanous material looks like a very finely to finely crystalline black basalt/andesite flow. It is made up of fine plagioclase, amphibole and biotite crystals in a felsic groundmass. Fresh material is strongly magnetic. Oxidized material is non-magnetic. The rock is finely fractured and rubbly. Orange-yellow iron oxides are concentrated along the fractures. Unfractured remnants show little oxidation. The fragments of rock are still relatively fresh and hard.

Sample Description: Grab sample of about 1 kg of chips of oxidized rock from outcrop.

Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm
25	34	-0.2	44	10

Sample Number	<u>52269</u>	UTM Easting:	637413	Date:	25-Jul-98
Site Name	Atty 98-05	UTM Northing:	6328681	oute.	20 001 00

Field Notes: On the upper edge of the broadest area of rusty scree. The dominant colour of the scree is a dark red-brown with some rusty red. The rock at this site may be fresher than in the center of the gossanous area, as more outcrop is present here.

The rock is finely crystalline, black and strongly magnetic. Under a hand lens, it is a finely crystalline, dense mixture of plagioclase feldspar (albite?) and black mafics which must be mainly magnetite. Coarse pyrite crystals are unevenly distributed along hairline fractures; overall the average pyrite grade is about 3%.

The rusty colour is probably produced by oxidation of both magnetite and pyrite along open hairline fractures.

Sample Description: grab of chips from outcrop within about a 2 m. radius.

	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	47	8	-0.2	38	10			
Sample Number 52270		UTM Easting:		637586	Date:	26- 101-98		
Site Name Atty 98-06		UTM Northing:			6328821	Date.	20-04-50	

Field Notes: On a promentory above the most prominent of the gossanous scree slopes. Hard, resistant, dominantly grey weathering andesitic homblende porphyry. Contains about 20% 0.5 mm to 3 mm ± equant hornblende crystals in a greenish grey aphanitic groundmass. The groundmass is variably saussuritized, giving it a waxy lustre. Epidote is present as blebs and lining some fractures, in the range 2% to 3%. The rock is strongly magnetic; magnetite is found as disseminated crystals and as hairline veinlets, amounting to about 3% of the rock. It must be at least in part secondary. Fresh white pyrite is found as disseminated crystals 1 mm to 2 mm in size. In part, the pyrite replaces the magnetite.

Sample Description: ± 1 kg random grab of chips from outcrop within a 5 meter radius.

	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	108	4	-0.2	59	12			
Sample Number <u>52271</u>		UTM Easting:			637696	Date:	26_101-08	
Site Name	Atty	98-07	U	TM Northing	j:	6328871	valt.	20-001-00

Field Notes: Up a spur along the fall line from 98-06.

The hornblende porphyry persists at this location, with alteration similar to that at 98-06. At this point is a calcite stringer veinlet about 10 cm. wide, white and coarsely crystalline.

Sample Description: Grab sample approximately representative of the veinlet width.

Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm
39	12	0.4	29	14

Descriptions of Rock Samples: 3 of 18 Pages
Sample Number	<u>52272</u>	UTM Easting:	637316	Date:	26-Jul-98
Site Name	Atty 98-09	UTM Northing:	6328686	Outo.	20 001 00

Field Notes: Location of 1997 picket 4N 600W. Picket is on a 2 m. x 1 m. outcrop barely exposed in the surrounding scree. The outcrop is volcanic (Takla?), probably originally a homblende porphyry. Now the homblende is chloritized, feldspar saussuritized to a waxy grey green. Pyrite is disseminated, shiney and fresh, amounting to about 5% of the rock. The outcrop is very rusty and all fracture surfaces are coated with orange-red iron oxide.

Quartz monzonite is present as float.

Sample Description: Random grab from outcrop descirbed.

	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	16	7	-0.2	26	4			
Sample Num	1 ber <u>522</u>	73	U1	TM Easting:		637131	Date:	26-Jul-98
Site Name	Atty	98-12	U	TM Northing	g:	6328942	Dal6.	20 Jui-30

Field Notes: About 30 meters at 342 deg. from L1025W 150N.

Cliff forming outcrops are of massive very finely crystalline crystal tuff. Layering is not evident. Tuff is non-magnetic, fresh and relatively unaltered. A few minor calcite veinlets are present.

A brittle fracture zone trending \pm 04/72 E, about half a meter wide, is followed by subcentimetric calcite veinlets and seams of pyrite over a slope distance of about 2 meters. Fracture surfaces are rusty coloured. Rare traces of malachite are present.

Sample Description: continuous chip across 50 cm. of the width of the mineralized fracture zone described.

Си ррт	Au ppb	Ag ppm	Zn ppm	Pb ppm
622	76	16.2	243	64

Sample Nun	nber <u>52</u>	274	U	TM Easting:		637117	Date:	26. Jul-98
Site Name	Att	y 98-15	U	TM Northin	g:	6329400	Udie.	20-501-50
Field Notes:	At site o one, giv	of picket L10 res 165 deg.	25W 400N.	A backsight	to the prec	ceding picke	t, the onl	y visible
	Picket i show ev	s in the lower vidence of re	r part of an a cent hand tri	area with nur enching and	nerous cop sampling.	oper showing	gs. The s	howings
	In the a intense	rea of the sho orange-red in	owings are a ron oxide sta	at least two b aining.	rittle shear	rs ± 1 meter	wide and	lexhibiting
	Shear s siliceou	ampled crop s boxwork, p	s out about r resumably th	10 meters ea he remnant l	ast of L102 eft after su	5W 400N. Iphides wer	The mate e leached	rial is a l out.
	Country so than	rock is horn similar rocks	blende porpi in a periphe	hyry andesite eral to the go	e, erraticall Issan zone	ly magnetic to the south	but overa 1.	all much less
	10 mete greyish	ers due south green, bande	of L1025W ed on a cent	400N is a sr imeter and n	nall exposi nillimeter s	ure of water cale. See n	lain ash [.] neasuren	tuff. It is nent.
Sample Des	cription:	Random gr	ab from oxid	le-stained bri	ittie shear	described.		
I	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	217	435	99.9	483	464			
Sample Nurr	ber <u>52</u> 2	278	U	TM Easting:		637834	Data:	26- 101-98
Site Name	Atty	/ 98-20	U	TM Northing	j :	6331792	Dale.	20-30-30
Field Notes:	At south has slou	neasternmost ughed in and	of two trend systematic s	ches on the to sampling is n	op of the A lot possible	wesome Sh e.	owing. T	he trench
	Rock is fluids th minerals not sign	felsic lithic a at deposited s very rare. 7 ificant.	nd crystal tu chalcedonic A few traces	ff breccia. If & vuggy cry of malachite	t has been stalline qu e copper st	hydrotherm artz. Visible ain are pres	ally brecc sulphide ent. Iron	ciated by or metallic oxides are
Sample Des	cription:	Random co of trench.	llection of vu	uggy quartz r	ubble from	n material sl	oughed ir	n to bottom
(Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	20	5	1.6	47	12			

Descriptions of Rock Samples: 5 of 18 Pages

Sample Num	1ber <u>52</u> 2	<u>279</u>	U	TM Easting	:	637834	Date:	26. Jul-08
Site Name	Att	y 98-20	U	TM Northin	ıg:	6331792	Date.	20-301-30
Field Notes:	At south has slou	neasternmos ughed in and	t of two trend systematic :	ches on the sampling is i	top of the <i>i</i> not possibl	Awesome S e.	Showing. T	he trench
	Rock is fluids th mineral not sign	felsic lithic a lat deposited s very rare. lificant.	and crystal tu I chalcedonic A few traces	iff breccia. I & vuggy cr of malachit	It has been ystalline qu e copper s	i hydrotherr Jartz, Visib tain are pre	nally brecc le sulphide sent. Iron	iated by or metallic oxides are
Sample Des	cription:	Random co of trench.	Silection of vi	uggy quartz	rubble fror	n material s	sloughed in	to bottom
(Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	62	134	25.2	53	74			
Sample Num	ber <u>522</u>	280		TM Easting:		637751	Date:	26, jul-98
Site Name	Atty	y 98-21	U	TM Northin	g:	6331857	Dale.	20-301-90
Field Notes:	At north northwe	westernmost st of 98-20.	t of two trend	thes on the <i>i</i>	Awesome (Showing, al	oout 50 me	ters
	The con minerals quartz.	idition and ge s not seen. S	eology of the Specks of jar	trench is sir osite are pro	milar to tha esent in roo	nt at 98-20. ok fragment	Sulphide o Is envelope	or metallic ed by
Sample Desc	cription:	Random co in bottom o	llection of ch f trench.	nips bearing	quartz veii	n material, i	collected fr	om rubble
C	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	51	1159	25.8	34				
				~	76			
Sample Num	ber <u>522</u>	.81	UT	M Easting:	76	637751		
Sample Num Site Name	ber <u>522</u> Atty	<u>81</u> 98-21	דט יט	M Easting:	76 	637751 6331857	Date:	 26-Jul-98
Sample Num Site Name Field Notes:	ber <u>522</u> Atty At north- northwes	2 <u>81</u> 7 98–21 westernmost st of 98–20.	UT U" of two trenc	M Easting: M Northing thes on the A	76 g: Awesome &	637751 6331857 Showing, ab	Date:	26-Jul-98 ters
Sample Num Site Name Field Notes:	ber <u>522</u> Atty At northe northwes The con minerals quartz.	281 98-21 westernmost st of 98-20. dition and ge a not seen. S	UT U" of two trenc ology of the pecks of jar	M Easting: TM Northing thes on the A trench is sir osite are pre	76 g: Awesome & milar to tha esent in roo	637751 6331857 Showing, ab t at 98-20. sk fragment	Date: oout 50 met Sulphide o s envelope	26-Jul-98 ters or metallic of by
Sample Num Site Name Field Notes: Sample Desc	ber <u>522</u> Atty At north- northwe: The con minerals quartz. cription:	281 98-21 westernmost st of 98-20. dition and ge not seen. S Random co in bottom of	UT U [*] of two trenc ology of the pecks of jan llection of ch trench.	M Easting: TM Northing thes on the A trench is sir osite are pre-	76 g: Awesome & milar to tha esent in roo quartz veir	637751 6331857 Showing, ab t at 98-20. k fragment n material, o	Date: Dout 50 met Sulphide o s envelope	26-Jul-98 ters or metallic od by om rubble
Sample Num Site Name Field Notes: Sample Desc	ber <u>522</u> Atty At northen northwes The con minerals quartz. cription:	281 98-21 westernmost st of 98-20. dition and ge not seen. S Random col in bottom of Au ppb	UT UT Sology of the Specks of jan llection of ch trench. Ag ppm	M Easting: TM Northing thes on the A trench is sir osite are pre- tips bearing Zn ppm	76 g: Awesome & milar to tha esent in roc quartz veir Pb ppm	637751 6331857 Showing, ab t at 98-20. k fragment n material, o	Date: Dout 50 met Sulphide o s envelope	26-Jul-98 ters or metallic od by om rubble
Sample Num Site Name Field Notes: Sample Desc	ber <u>522</u> Atty At northen northwes The con minerals quartz. cription: Cu ppm	281 98-21 westernmost st of 98-20. dition and ge not seen. S Random col in bottom of Au ppb 19	UT UT Sology of the Specks of jan llection of ch trench. Ag ppm 1.6	M Easting: TM Northing thes on the A trench is sir osite are pre- tips bearing Zn ppm 36	76 g: Awesome & milar to tha esent in roo quartz veir Pb ppm 12	637751 6331857 Showing, ab t at 98-20. k fragment n material, o	Date: bout 50 met Sulphide o s envelope collected fr	26-Jul-98 ters or metallic od by om rubble

Descriptions of Rock Samples: 6 of 18 Pages

Sample Number	<u>A99-002A</u>	UTM Easting:	635460	Date:	22-AHA-99
Site Name	A99-002	UTM Northing:	6335265	0010.	22-7 lug-00

Field Notes: In the headwall of a cirque, about 30 meters upslope to the north of a drill rod sticking out of the ground. Outcrop is typical of that seen in rubble throughout the cirque. Quartz-alunite breccia? Sub-centimetric, sub-angular fragments, randomly oriented, form 40% of rock. Groundmass or matrix is cream-coloured and powders under a knife. All boulders, outcrops and fracture surfaces are coated with orange and deep hematitic red iron oxides. Block, rubbly fracture.

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There are a few remnants of the country rock present in the outcrop. It is a fine feldspar crystal ash tuff.

Sample Description: grab sample of random chips within about a 5 meter radius

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	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	43	9	6.4	-1	56			
Sample Nu	mber <u>A99</u>	-0 <u>03A</u>	U	TM Easting	:	635576	Date:	22-Aun-99
Site Name	A99	-003	U	TM Northin	g:	6335086		EE / 10g 00
Field Notes	: Sample : of feldsp The outo and alun shards ir rubbly.	site encoun ar crystal as rop is grey- ite as at 000 a very fine Does not ap	tered while d sh tuff as sec buff to orang 2. Approxim ly crystalline pear mineral	lescending o en in the less ge weatherin ately 30% o e, buff colour lized, but a g	Irainage SE s altered pa g; it doesn't f the rock is red groundr grab sample	of A99-002 ints of the out t exhibit bre s 0.5 to 3 m mass of ash e was colled	2. Outcrop atcrop at cciation, m feldspa . Weathe ted as a	p 5m x 5m A99-002. silicification ar crystal ering is check.
Sample De	scription:	grab of sev	eral chips fro	om outcrop				
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	47	6	5.6	1 1	146			

Sample Number	A99-006A	UTM Easting:	635950	Date:	22-Aun-99
Site Name	A99-006	UTM Northing:	6334235	Duty.	22,109,00

Field Notes: An outcrop forms a wooded bluff about 10 m x 10 m. It is tuff similar to that described at A99-005:

It is coarse feldspar-quartz crystal tuff, dull maroon-brown. It consists of 20% 1 - 3 mm feldspar crystal shards, crearny brown. The buff colour comes from the finely crystalline groundmass.

GPS reading not possible at this site. It is about 150 meters downslope from A99-005, at the point where contours start to angle in to a creek gulley.

Sample Description: grab sample of several random chips from outcrop

Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm
6	6	-0.2	81	10

Descriptions of Rock Samples: 7 of 18 Pages

······								
Sample Num	ber <u>AJE</u>	<u>3-1</u>	Ű	TM Easting		637397	Data [,]	26-101-98
Site Name	AJE	3-1	U	TM Northin	g:	6328813	Date.	20.001-00
Field Notes:								
Sample Dese	cription:	volcanic; p	yrite, goethit	e stains				
(Cu ppm	Au ppb	Ag ppm	Zn ppm	РЬ ррт			
	74	9	0.2	46	12			
Sample Num	ber <u>AJB</u>	<u>3-10</u>	U'	TM Easting		637834	Date:	26- 04-98
Site Name	Atty	98-20	U	TM Northin	g:	6331792	Date.	20-00-00
Field Notes:	At south has slou	easternmosi ghed in and	t of two trend systematic s	ches on the t sampling is r	op of the A tot possible	wesome Sl e.	howing. T	he trench
Sample Desc	Rock is f fluids tha minerals not signi cription:	felsic lithic a at deposited very rare. ficant. grab sample	nd crystal tu chalcedonic A few traces e of drusy qu	ff breccia. I & vuggy cry of malachite lartz; comple	t has been istalline qu e copper st etely leach	hydrotherm artz. Visibl ain are pres ed	nally brecc e sulphide sent. Iron	iated by or metallic oxides are
C	Cu ppm	Au ppb	Ag ppm	Zn ppm	Р6 ррт			
	56	7	0.4	16	10			
Sample Num	ber <u>AJB</u>	<u>-11</u>	U	M Easting:		637834	Date:	26-Jul-98
Site Name	Atty	98-20	ហ	TM Northing	j :	6331792	Dutc.	
Field Notes:	At southe has slou	easternmost ghed in and	of two trend systematic s	hes on the t ampling is r	op of the A ot possible	wesome Sh e	nowing. TI	ne trench
	Rock is f fluids tha minerals not signif	elsic lithic a at deposited very rare. <i>I</i> ficant.	nd crystal tu chalcedonic A few traces	ff breccia. If & vuggy cry of malachite	: has been stalline qu e copper st	hydrotherm artz. Visible ain are pres	ally brecci e sulphide ænt. Tron (ated by or metallic oxides are
Sample Desc	ription:	grab sample	e; sintery qua	artz in volca	nic with so	me hematite	e staining.	
C	u ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			

Sample Num	ber <u>A</u>	<u>IB-12</u>	U	TM Easting	:	637751	Date:	26, 101-98
Site Name	At	ty 98-21	U	TM Northin	g:	6331857	Dute.	20 00.00
Field Notes:	At nort northw	hwesternmos est of 98-20.	st of two trend	ches on the <i>i</i>	Awesome	Showing, a	bout 50 me	eters
	The co minera quartz.	ndition and g Is not seen.	eology of the Specks of jai	e trench is si rosite are pro	milar to tha esent in ro	at at 98-20. ck fragmen	Sulphide ts envelop	or metallic ed by
Sample Desc	ription	NW of tren observed.	ich. Hematite	e rich brecci	a with 50%	sintery sili	ca. No su	phides
c	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	63	928	100	50	232			
Sample Num	ber <u>A.</u>	<u>B-13</u>	U	M Easting:		637751	Date:	26-Jul-98
Site Name	At	ty 98-21	U	TM Northin	g:	6331857	Date.	20 00, 00
	The co	ndition and a	oplagy of the				.	
Sample Desc C	minera quartz. ríption:	Is not seen.	Specks of jar ch. Grab sar Ag ppm	rosite are pre mple contain Zn ppm	milar to tha esent in roo ns radial ve Pb ppm	it at 98-20. ck fragmeni sinlets of sir	Sulphide ts envelop ntery, vugg	or metallic ed by ly quartz.
Sample Desc C	minera quartz. ription: tu ppm 36	NW of tren Au ppb	ch. Grab sar Ag ppm 25.6	mple contain Zn ppm 36	milar to tha esent in roo ns radial ve Pb ppm 84	it at 98-20. ck fragment	Sulphide ts envelop ntery, vugg	or metallic ed by ly quartz.
Sample Desc C Sample Numl	minera quartz. rríption: Cu ppm 36 ber <u>AJ</u>	NW of tren Au ppb 83 B-14	ch. Grab sar Ag ppm 25.6	mple contain Zn ppm 36	milar to tha esent in roo ns radial ve Pb ppm 84	in at 98-20. k fragmeni inlets of sir 637751	Sulphide ts envelop ntery, vugg	or metallic ed by ny quartz. 26Jul-98
Sample Desc C Sample Numi Site Name	minera quartz. cription: cu ppm 36 ber <u>AJ</u>	NW of tren Au ppb 83 <u>B-14</u> y 98-21	ch. Grab sar Ag ppm 25.6 UT	Trench is sin rosite are pre mple contain Zn ppm 36 M Easting:	milar to tha esent in roo ns radial ve Pb ppm 84 g:	inlets of sir 637751 6331857	Sulphide ts envelop ntery, vugg Date:	or metallic ed by y quartz. 26-Jul-98
Sample Desc C Sample Numl Site Name Field Notes:	minera quartz. ription: 36 ber <u>AJ</u> Att Att northwe	NW of tren Au ppb 83 <u>B-14</u> y 98-21 hwesternmos est of 98-20.	t of two trenc	The french is sin tosite are pre- mple contain Zn ppm 36 M Easting: TM Northing thes on the A	milar to tha esent in roo Pb ppm 84 g: Awesome S	inlets of sir 637751 6331857	Sulphide ts envelop ntery, vugg Date: Date: bout 50 me	or metallic ed by y quartz. 26-Jul-98 ters
Sample Desc C Sample Numl Site Name Field Notes:	minera quartz. ription: 36 ber <u>AJ</u> Att Att north northwo The co mineral quartz.	NW of tren Au ppb 83 <u>B-14</u> y 98-21 hwesternmos est of 98-20. hdition and gi is not seen.	eology of the Specks of jar ch. Grab sar Ag ppm 25.6 UT UT t of two trend eology of the Specks of jar	Trench is sin rosite are pre- mple contain Zn ppm 36 M Easting: TM Northing thes on the A trench is sin osite are pre-	milar to that esent in roo ns radial ve Pb ppm 84 g: Awesome S milar to that esent in roo	inlets of sir 637751 6331857 Showing, at t at 98-20.	Sulphide ts envelope ntery, vugg Date: Date: Sulphide of s envelope	or metallic ed by y quartz. 26-Jul-98 ters or metallic ed by
Sample Desc C Sample Numi Site Name Field Notes: Sample Desc	minera quartz. ription: 20 ppm 36 36 ber <u>AJ</u> Att Att north northwo The co mineral quartz. ription:	NW of tren Au ppb 83 <u>B-14</u> y 98-21 nwesternmos est of 98-20. Indition and g is not seen.	eology of the Specks of jar ch. Grab sar Ag ppm 25.6 UT UT t of two trend eology of the Specks of jar ntaining volca matrix fragm	Trench is sir posite are pre- mple contain Zn ppm 36 M Easting: IM Easting: thes on the A trench is sir osite are pre- anic fragmer ents.	milar to that esent in roo ns radial ve Pb ppm 84 g: Awesome S milar to that esent in roo	inlets of sir 637751 6331857 Showing, at t at 98-20. k fragment	Sulphide ts envelope ntery, vugg Date: Date: Sulphide (s envelope quartz. S	or metallic ed by y quartz. 26-Jul-98 ters or metallic ed by ome
Sample Desc C Sample Numi Site Name Field Notes: Sample Desc	minera quartz. ription: 20 ppm 36 ber <u>AJ</u> Att Att north northwo The co mineral quartz. ription: 20 ppm	NW of tren Au ppb 83 <u>B-14</u> y 98-21 hwesternmos est of 98-20. Indition and g is not seen. S Breccia cor hematized Au ppb	eology of the Specks of jar Ag ppm 25.6 UT UT t of two trend eology of the Specks of jar ntaining volca matrix fragm Ag ppm	Trench is sin rosite are pre- mple contain Zn ppm 36 TM Easting: TM Northing thes on the A trench is sin osite are pre- anic fragmen ents. Zn ppm	milar to the esent in roo Pb ppm 84 g: Awesome S milar to the esent in roo nts in veinte Pb ppm	inlets of sir 637751 6331857 Showing, at t at 98-20. k fragment	Sulphide ts envelope ntery, vugg Date: Date: Sulphide (s envelope quartz. S	or metallic ed by ny quartz. 26-Jul-98 ters or metallic ed by

Descriptions of Rock Samples: 9 of 18 Pages

Sample Nu	mber <u>AJ</u>	<u>B-15</u>	U	TM Easting:	:	637751	Date:	26_101-08
Site Name	Att	y 98-21	U	TM Northin	g:	6331857	Date.	20-301-30
Field Note:	s: At north	nwesternmos est of 98-20.	t of two tren	ches on the A	Awesome S	Showing, al	bout 50 m	eters
	The co minera quartz.	ndition and g Is not seen.	eology of the Specks of ja	e trench is sil rosite are pre	milar to tha esent in roc	t at 98-20. k fragmen	Sulphide ts envelop	or metallic bed by
Sample De	scription:	SW of tren drusy quar	ch. Litholog tz.	ically similar	to AJB-13.	Hematite	stains fre	quent; some
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	15	17	0.6	31	14			
Sample Nu	mber <u>AJ</u>	<u>B-2</u>	U.	TM Easting:	<u>.</u>	637301		
Site Name	AJ	B-2	U	TM Northing	g:	6328774	Date:	20-301-98
Field Notes	5:							
Sample De	scription:	as AJB-1, t oxidized m upslope fro	out highly ox agnetite. So m gossanou	idized and la me jarosite i s area	ced with go n cavities o	ethite vier created by	ilets, prob leaching.	ably Just
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	194	76	0.2	42	24			
Sample Nu	mber <u>AJ</u>	<u>B-3</u>	 U"	FM Easting:		637316	Date:	26, Jul.98
Site Name	Att	y 98-09	U	TM Northing	g:	6328686	Date.	20-30-30
Field Notes	s: Locatio the surr hornble waxy gr the rock iron oxi	n of 1997 pic ounding scre nde porphyny ey green. P k. The outcro de.	ket 4N 600V e. The outc . Now the h yrite is disse op is very rus	V. Picket is o rop is volcan omblende is minated, shir sty and all fra	on a 2 m. x ic (Takla?) chloritized ney and fre acture surfa	1 m. outer , probably , feldspar sh, amoun ices are co	rop barely originally s saussuritiz ting to abo ated with	exposed in a zed to a out 5% of orange-red
	Quartz	monzonite is	present as f	loat.				
Sample De	Quartz scription:	monzonite is Grab samp	present as f le by J. Bara	loat. kso. Approx	. 30 m at 0	40 deg. fro	om 98-09	
Sample De	Quartz scription: Cu ppm	monzonite is Grab samp Au ppb	present as f le by J. Bara Ag ppm	loat. kso. Approx Zn ppm	. 30 m at 0 Pb ppm	40 deg. fro	om 98-09	

Descriptions of Rock Samples: 10 of 18 Pages

Sample Nun	nber <u>AJ</u>	<u>B-4</u>	U	TM Easting		637316	Date	26. Jul. 09
Site Name	Att	y 98-09	U	TM Northin	ng:	6328686	Date.	20 001 00
Field Notes:	Locatio the surr hornble waxy gi the rocl iron oxi Quartz	n of 1997 pic rounding scre nde porphyn rey green. P k. The outon de. monzonite is	cket 4N 600V ee. The outo y. Now the h yrite is disse op is very ru present as t	V. Picket is crop is volca nornblende is minated, sh sty and all fi float.	on a 2 m. nic (Takla? s chloritize iney and fr acture surf	x 1 m. outc), probably d , feldspar esh, amour faces are co 084 dog fro	rop barely originally saussuriti nting to ab bated with	exposed in a zed to a out 5% of orange-red
Sample Des	Cu nom	Au nnh	Ag ppm	7n nom	Ph nnm	oon deg no	in 90-09.	
	21	11	0.2	35	12			
Sample Nur	nber <u>AJ</u>	<u>B-5</u>	U	TM Easting	:	637270		00.00
Site Name	AJI	3-5	U	TM Northin	g:	6328660	Date:	20-Jui-90
	28	11	0.2	45	10			
Sample Num	nber <u>AJ</u>	<u>B-6</u>		TM Easting	:	637138	Deter	
Site Name	AJI	3-6	U	TM Northin	g:	6329134	Dale.	20-301-30
Field Notes:	at site o	f soil sample	e 1025W, 1+	75 N				
Sample Des	cription:	Shear vein of chalcopy	with calcite a rrite.	and quartz o	rystals. Co	ontains pyri	te veinlets	with blebs
•	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	10000	443	49.4	253	80			
Sample Num	ber <u>AJ</u>	<u> </u>	U1	TM Easting	:	636997	Date:	
Site Name	AJE	3-7	U	TM Northin	g:	6329136	Duw.	20 00.00
Field Notes:	100 met	ters downslo	pe from AJB	-6, in creek	bed.			
Sample Des	cription:	Shear vein staining.	material; 75	% pyrite witl	n a mangai	nese coating	g and som	ie azurite
(Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	1347	148	9.8	145	232			

Descriptions of Rock Samples: 11 of 18 Pages

Sample Nurr	nber <u>AJP</u>	<u>1-8</u>	U ⁻	TM Easting	:	636980	Date:	26-Jul-9
Site Name	AJE	-8	U	TM Northin	g:	6329110		20 001 0
Field Notes:	Small ve	ein 60 meter	s downslope	from AJB-7	7.			
Sample Des	cription:	small vein	containing m	lagnetite, py	rite and ch	alcopyrite.		
ł	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	10000	5926	100	52	330			
Sample Nur	nber <u>AJB</u>	1-9	U	rm Easting	:	637834	Date:	26-Jul-9
Site Name	Atty	98-20	U	T M Northi n	g:	6331792		
Field Notes:	At south has slou	easternmos ghed in and	t of two trend systematic s	ches on the sampling is	top of the A not possible	wesome Sl e.	howing. T	he trench
	Rock is f fluids tha minerals not signi	elsic lithic a at deposited very rare. ficant.	ind crystal tu chalcedonic A few traces	ff breccia. I & vuggy cr of malachit	t has been ystalline qu e copper st	hydrotherm artz. Visibl ain are pres	nally breco e sulphide sent. Iron	ciated by e or metallic oxides are
Sample Des	cription:	grab sampl	e; oxidized r	naterial with	criss-cross	ing quartz	veinlets	
•	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	123	12	1.4	31	8			
Sample Nur	ıber <u>ATF</u>	<u>₹-1</u>	יט	FM Easting	:	638391	Date:	23-Aug-9
Site Name	ATF	≀-1	U	TM Northin	g:	6329094	Dato.	201 mg 0
Field Notes:	In cirque	, south-cent	tral AT991 cl	aim.				
	Sample	contains cha	alcopyrite.					
		selected an	ab containin	a chalconvri	to			
Sample Des	cripuon:	J		g onchoopyn	(C			
Sample Des	cripuon: Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
Sample Des	Cu ppm -1	Au ppb 8	Ag ppm -0.2	Zn ppm 78	Pb ppm			
Sample Des	Cu ppm -1 iber <u>ATF</u>	Au ppb 8 <u>8-10</u>	Ag ppm -0.2	Zn ppm 78 	Pb ppm 14	638267	Date:	
Sample Des	Cuppm -1 Iber <u>ATF</u> ATF	Au ppb 8 <u>-10</u> 8-10	Ag ppm -0.2 UT	Zn ppm 78 M Easting	Pb ppm 14 : g:	638267 6328935	Date:	23-Aug-9
Sample Des Sample Num Site Name Field Notes:	Cuppm -1 Iber <u>ATF</u> ATR In cirque	Au ppb 8 <u>-10</u> -10 , south-cent	Ag ppm -0.2 U1 U1 tral AT991 cl	Zn ppm 78 TM Easting TM Northin aim.	Pb ppm 14 : g:	638267 6328935	Date:	23-Aug-9
Sample Des Sample Num Site Name Field Notes:	-1 iber ATF In cirque Southwe	Au ppb 8 <u>-10</u> - south-cent - south-cent	Ag ppm -0.2 UT UT tral AT991 cl.	Zn ppm 78 TM Easting TM Northin aim.	Pb ppm 14 : g:	638267 6328935	Date:	23-Aug-9
Sample Des Sample Num Site Name Field Notes: Sample Des	Cuppm -1 Iber <u>ATF</u> ATR In cirque Southwe cription:	Au ppb 8 <u>R-10</u> south-cent st of ATR-9 grab sample	Ag ppm -0.2 UT ur tral AT991 cl.	Zn ppm 78 TM Easting TM Northin aim.	Pb ppm 14 : g:	638267 6328935	Date:	23-Aug-9
Sample Des Sample Num Site Name Field Notes: Sample Des	Cuppm -1 iber <u>ATF</u> ATR In cirque Southwe cription: Cuppm	Au ppb 8 8 8-10 9 south-cent 9 south-cent 9 grab sample Au ppb	Ag ppm -0.2 UT UT tral AT991 cl. e Ag ppm	Zn ppm 78 [M Easting TM Northin aim. Zn ppm	Pb ppm 14 : g: Pb ppm	638267 6328935	Date:	23-Aug-99

Descriptions of Rock Samples: 12 of 18 Pages

Sample Nur	nber <u>AT</u>	<u>R-11</u>	U	TM Easting	1	638202	Bates	23 Aug 00
Site Name	ATI	२-11	ι	JT M Northi r	ıg:	6328916	Date.	20-7 tug-00
Field Notes	: In cirque	e, south-cen	itral AT991 c	laim.				
	Intrusive Specime	e rock; mala ens containi	chite. Quarl ng chalcopy	z(ite??) veir rite are very	ning. Disse magnetic.	minated cha	alcopyrite	
Sample Des	cription:	selected gi	rab sample					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	1802	25	1.6	109	18			
Sample Nur	nber <u>ATI</u>	<u>R-12</u>	U	TM Easting	:	638176	Date	23-Aug-90
Site Name	ATF	R-12	U	TM Northin	ıg:	6328910	Date.	20-Aug-98
Field Notes:	: In cirque	e, south-cen	tral AT991 c	laim.				
	Dissemi	nated chalc	opyrite.					
		ined intrucio	ve mek					
Sample Des	cription:	selected ar	ab sample					
	Cu pom	Au ppb	Aa oom	Zn pom	Pb ppm			
	251	24	0.2	32	14			
Sample Nun	nber <u>AT</u>	<u>R-13</u>	- <u> </u>	TM Easting	:	638141		
Site Name	ATF	R-13	Ų	TM Northin	g:	6328906	23-Aug-98	
Field Notes:	In cirque	, south-cen	tral AT991 c	laim.				
	No desc	ription provi	ded.					
Sample Des	cription:	grab sampl	le					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	1512	22	1.2	41	36			
Sample Nun	nber <u>AT</u> f	<u>-14</u>	U	TM Easting	:	638117	Data	
Site Name	ATF	₹-14	U	TM Northin	g:	6328914	Date.	20 / lug-00
Field Notes:	In cirque	, south-cent	tral A⊤991 cl	laim.				
	Center o	f basin; sm	all vein of m	assive chalc	opyrite.			
Sample Des	cription:	selected gr	ab sample					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	1130	32	3	48	50			

Descriptions of Rock Samples: 13 of 18 Pages

	mper <u>An</u>	<u>R-15</u>	U	TM Easting	:	638060	Date:	23-Aua-99
Site Name	ATI	₹-15	U	TM Northin	g:	6328960		
Field Notes	s: In cirque	e, south-cen	tral AT991 c	laím.				
Sample De	Very ma scription:	ific, highly n selected gr half meters	nagnetic rocl ab sample. s)	ks containg l (samples A ⁻	blobs of ch [R-15 to A]	alcopyrite. FR-17 are a	ll within o	ne and a
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	338	8	0.6	2542	2156			
Sample Nu	mber <u>AT</u> f	<u>₹-16</u>	U	TM Easting	:	638035	Deter	22 Aug O
Site Name	ATE	र-16	ມ	TM Northin	g:	6328964	Date:	23-Aug-9
Field Notes	s: In cirque	, south-cen	tral AT991 c	laim.				
Sample De	Medium scription:	grained sys selected gr half meters	nite porphyr ab sample. :)	y. (samples A1	R-15 to A	FR-17 are al	l within o	ne and a
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	144	7	-0.2	26	12			
Sample Nu	mber <u>AT</u>	<u>₹-17</u>	U.	TM Easting		638012	Data	23 Aug_0
Site Name	ATF	₹-17	U	TM Northin	g:	6328970	Dale.	20-Aug-0.
	e In cirque	, south-cent	iral AT991 cl	aim.				
Field Notes	n in onque							
Field Notes	Dry fract	ures contair	n chalcopyrit	e.				
Field Notes Sample Des	Dry fract	ures contain selected gr	n chalcopyrit ab (samples	e. ATR-15 to A	TR-17 are	all within o	ne and a l	half meters)
Field Notes	Dry fract scription: Cu ppm	tures contair selected gr Au ppb	n chalcopyrit ab (samples Ag ppm	e. ATR-15 to A Zn ppm	TR-17 are Pb ppm	all within o	ne and a l	half meters)
Field Notes Sample De	Dry fract scription: Cu ppm 324	tures contail selected gr Au ppb 6	n chalcopyrit ab (samples Ag ppm 0.2	e. ATR-15 to A Zn ppm 33	\TR-17 are Pb ppm 14	all within o	ne and a l	half meters)
Field Notes	Dry fract scription: Cu ppm 324 mber <u>ATF</u>	tures contail selected gr Au ppb 6 <u></u>	n chalcopyrit ab (samples Ag ppm 0.2 UT	e. ATR-15 to A Zn ppm 33 FM Easting:	ATR-17 are Pb ppm 14	all within or 637982	ne and a l	half meters)
Field Notes Sample Des Sample Nur Sample Nur	Dry fract scription: Cu ppm 324 mber <u>ATF</u>	tures contain selected gr Au ppb 6 <u></u>	n chalcopyrit ab (samples Ag ppm 0.2 UT	e. ATR-15 to A Zn ppm 33 FM Easting: TM Northing	ATR-17 are Pb ppm 14 g:	all within or 637982 6328985	ne and a l	half meters) 23-Aug-99
Sample Des Sample Nur Sample Nur Site Name Field Notes	Dry fract scription: Cu ppm 324 mber <u>ATF</u> ATF	tures contail selected gr Au ppb 6 <u>-18</u> -18 , south-cent	n chalcopyrit ab (samples Ag ppm 0.2 UT UT Tal AT991 cl	e. ATR-15 to A Zn ppm 33 TM Easting: TM Northing aim.	ATR-17 are Pb ppm 14 g:	all within or 637982 6328985	ne and a l Date:	half meters) 23-Aug-98
Sample Des Sample Nur Sample Nur Site Name Field Notes	Dry fract scription: Cu ppm 324 mber <u>ATF</u> ATF c: In cirque Quartz V	tures contain selected gr Au ppb 6 <u>2-18</u> 3-18 , south-cent ein contains	n chalcopyrit ab (samples Ag ppm 0.2 UT UT ral AT991 cl	e. ATR-15 to A Zn ppm 33 TM Easting: TM Northing aim. aim.	ATR-17 are Pb ppm 14 g: rite.	all within or 637982 6328985	ne and a l Date:	half meters) 23-Aug-99
Sample Des Sample Nur Site Name Field Notes	Dry fract scription: Cu ppm 324 mber <u>ATF</u> ATF : In cirque Quartz v scription:	tures contain selected gr Au ppb 6 <u>2-18</u> 3, south-cent ein contains selected gra	n chalcopyrit ab (samples Ag ppm 0.2 UT UT ral AT991 cl sphalerite a ab sample	e. ATR-15 to A Zn ppm 33 FM Easting: TM Northing aim. aim.	ATR-17 are Pb ppm 14 g: rite.	all within or 637982 6328985	ne and a l Date:	half meters) 23-Aug-99
Sample Des Sample Nur Site Name Field Notes	Dry fract scription: Cu ppm 324 mber <u>ATF</u> ATF : In cirque Quartz v scription: Cu ppm	tures contain selected gr Au ppb 6 <u>2-18</u> 3 south-cent ein contains selected gra Au ppb	n chalcopyrit ab (samples Ag ppm 0.2 UT uT ral AT991 cl sphalerite a ab sample Ag ppm	e. ATR-15 to A Zn ppm 33 FM Easting: TM Northing aim. aim. aim. aid chalcopy Zn ppm	ATR-17 are Pb ppm 14 g: rite. Pb ppm	all within or 637982 6328985	ne and a l	half meters) 23-Aug-99

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Sample Nu	mber <u>ATF</u>	<u>≀-19</u>	U	TM Easting	:	637940	Date:	23 <u>-</u> Δυα-00
Site Name	ATR	≀ -19	U	TM Northin	g:	6329014	Date.	20-Aug-01
Field Notes	s: In cirque	, south-cen	tral AT991 c	laim.				
	Shear ve and mala	ein in west v achite.	vall of cirque	e, strike/dip 2	85/80NE.	Contains sp	halerite, (chalcopyrite
Sample De	scription:	selected gr	ab sample.					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	3957	116	41.4	10000	1 816			
Sample Nu	mber <u>ATF</u>	<u>}-2</u>	U	TM Easting:		638498	Data:	23.40.00
Site Name	ATR	≀-2	U	TM Northin	g:	6329021		20-Aug-36
Field Notes	: In cirque	, south-cent	ral AT991 c	laim.				
	Quartz v	eining and (epidote alter	ation.				
Sample De	scription:	selected gr	ab sample					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	5 5	8	0.6	75	16			
Sample Nu	mber ATR	<u></u>	U	TM Easting:	;	637846		
Site Name	ATR	!- 20	U	TM Northing	g:	6329016	Date:	23-Aug-99
Field Notes	: In cirque	, south-cent	ral AT991 cl	laim.				
	Shear ve	ein.						
Sample De	scription:	selected gr	ab sample.					
	Cu ppm	Аи ррв	Ag ppm	Zn ppm	Pb ppm			
	2968	106	46.8	10000	2650			
Sample Number ATR-21			U	TM Easting:		637824	Bata	22. Aug. 00
		:-21	U	T M Northin s	g:	6329011	Date.	20-Aug-38
Site Name	~ ~ ~							
Site Name Field Notes	: In cirque	, south-cent	ral AT991 cl	aim.				
Site Name Field Notes	In cirque	, south-cent hin shear ve	ral AT991 cl eins.	aim.				
Site Name Field Notes Sample Des	Zone of t scription:	, south-cent hin shear ve selected gra	ral AT991 cl eins. ab sample.	aim.				
Site Name Field Notes Sample Des	Zone of t Zone of t scription: Cu ppm	, south-cent hin shear ve selected gra Au ppb	ral AT991 cl eins. ab sample. Ag ppm	aim. Zn ppm	Pb ppm			

Descriptions of Rock Samples: 15 of 18 Pages

Sample Nu	mber <u>ATF</u>	<u>R-22</u>	U	TM Easting	•	637842	Data:	23_ <u>Aun_</u> 00
Site Name	ATF	R-22	L	TM Northin	g:	6329134	Date.	20-7 tug-00
Field Note:	s: In cirque	, south-cen	tral AT991 c	laím.				
	15 cm to	20 cm she	ar vein conta	ains chalcop	yrite.			
Sample De	scription:	selected gr	ab sample.					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	140	41	1.2	331	58			
Sample Nu	mber <u>AT</u> F	<u>}-23</u>	U	TM Easting		637921	Date:	23-Aug-99
Site Name	ATF	R-23	u	TM Northin	g:	6329230	Date.	20-Aug-00
Field Notes	s: In cirque	, south-cen	tral AT991 c	laim.				
	Skam(?)	containing	chalcopyrite					
Sample De	scription:	selected gr	ab sample.					
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	90	5	0.2	391	20			
Sample Nu	mber <u>ATR</u>	- <u></u>	U.	TM Easting:		638133	Data:	23-440-00
Site Name	ATR	-24	υ	TM Northin	g:	6329280	Date.	20-7-lug-00
Field Notes	: In cirque	, south-cent	iral AT991 cl	laim.				
	Vein, 4 c	m to 5 cm v	vide, striking	110 deg.				
Sample Des	scription:	selected gra	ab from vein	I				
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	870	97	3.8	24	78			
Sample Nu	nber <u>ATR</u>	-3	U	TM Easting:		638623	Date:	23-Aug-99
Site Name	ATR	-3	U	T M Nort hing	g:	6328990	Date.	LU AUG UU
Field Notes	: In cirque,	south-cent	ral AT991 cl	aim.				
	Highly lin	nonitic rock						
Sample Des	scription:	grab sample	e of limonitic	material				
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	4782	235	6	39	112			

Descriptions of Rock Samples: 16 of 18 Pages

Sample Nur	nber <u>A</u> T	<u>R-4</u>	U	TM Easting	:	638646	Data	22 Aug 00
Site Name	AT	R-4	U	TM Northin	g:	6328991	Udle.	23-Aug-98
Field Notes	: in cirqu	e, south-cen	tral AT991 c	laim.				
	Visible ı	malachite on	i surface.					
Sample Des	cription:	grab sampl	e selected fo	or malachite.				
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	6601	67	6.8	100	44			
Sample Nun	nber <u>AT</u>	<u>R-5</u>	U	TM Easting:		638713	Date:	23-Aug-99
Site Name	ATI	₹-5	U	TM Northin	g:	6329002	Date.	20-7109-00
Field Notes	: In cirque	e, south-cent	tral AT991 c	laim.				
	Barite-q	uartz vein tr	ends 160 de	g. 30 cm to	60 cm wid	e.		
Sample Des	cription:	grab sampl	e selected fr	om vein				
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	76	10	0.8	-1	1 4			
Sample Nun	nber <u>ATI</u>	<u>R-6</u>	 U ⁻	TM Easting:		638706	Date:	23-Aug-99
Site Name	ATE	२-6	U	TM Northing	g:	6328970	Buto.	20, 109 00
Field Notes:	: In cirque	e, south-cent	ral AT991 cl	aim.				
	Sample	contains vis	ible malachit	te and limoni	ite.			
Sample Des	cription:	grab sample	e selected fo	or visible min	eralization			
	Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm			
	125	7	1.2	38	24			
Sample Num	nber <u>ATF</u>	<u>R-7</u>	U	IM Easting:		638354	Date:	23-Aug-99
Site Name	ATE	R-7	U.	TM Northing	g:	6329000		
Field Notes:	In cirque	e, south-cent	ral AT991 cl	aim.				
	Dook oo	ntains visible	e malachite.					
Comple Dee		arah comet	a colocted fo	r malachita				
Sample Des	cription:	grab sample	e selected fo	r malachite. Zn ppm	Pb nnm			
Sample Des	cription: Cuppm 10000	grab sample Au ppb	e selected fo Ag ppm 16	er malachite. Zn ppm 47	Pb ppm 82			

Descriptions of Rock Samples: 17 of 18 Pages

Sample Number	ATR-8	UTM Easting:	638317	Date:	23-Aug-99
Site Name	ATR-8	UTM Northing:	6328985	Date.	207 log 00

Field Notes: In cirque, south-central AT991 claim.

Chalcopyrite, vein zone 1 meter wide in talus, on footwall of dyke 3 meters wide. North side of (vein or dyke?) has a dip of 85 deg to the north.

Sample Description: grab sample selected from quartz vein.

216 156 3.2	174	90	

Sample Number	ATR-9	UTM Easting:	638323	Date:	23-Aua-99
Site Name	ATR-9	UTM Northing:	6328946		

Field Notes: In cirque, south-central AT991 claim.

Vein zone 10 m south of ATR-8.

Sample Description: grab sample selected from vein

Cu ppm	Au ppb	Ag ppm	Zn ppm	Pb ppm
203	220	5.2	151	114