REPORT ON THE 2002 ENTRANCE PEAK PROJECT:

POLY PROPERTY, SKEENA MINING DIVISION,

STEWART MINING CAMP,

NTS 104A/04E

NORTHWESTERN BRITISH COLUMBIA

BY

GEOFINE EXPLORATION CONSULTANTS LTD.

NOVEMBER, 2002

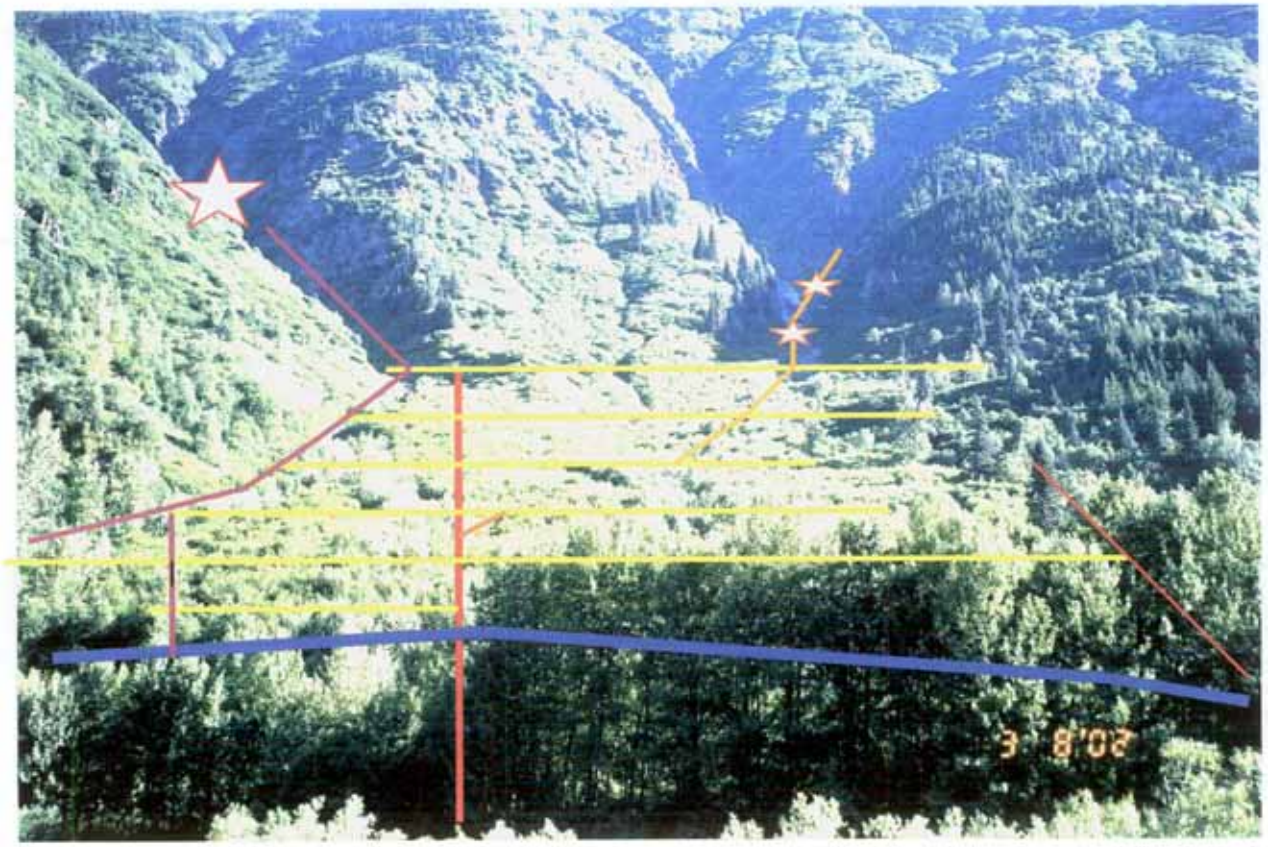

PHOTO 1:
MAIN AREA OF 2002 EXPLORATION PROGRAM, POLY PROPERTY
LOOKING NORTH FROM HWY 37A:

IDEALIZED CONTROL LINES:
OLD HWY 37A & CONTROL LINE
BL50E & CL 345°
HIGHWAY ZONE CREEK CONTROL LINE
EAST CREEK CONTROL LINE
GRID LINES
HIGHWAY ZONE CREEK SHOWING
ICE AND UPPER ICE SHOWINGS

SCALE: VARIABLE

REPORT ON THE 2002 ENTRANCE PEAK PROJECT:

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SUMMARY:

The Poly Property is situated about 42 km east of Stewart or about 18 km west of Meziadin Lake, in the Entrance Peak Area of Northwestern British Columbia. The Poly 1-7 Claims are located in the Skeena Mining Division of the Stewart Gold Camp, and are bisected by old Hwy 37A, Hwy 37A and the Stewart power line.

Interest in the area was generated in 1991 as a result of the application of the same exploration rationale used to discover the Red Mountain deposit i.e., favourable structural fabric and altered Hazelton pyroclastic rocks, intruded by a quartz monzonite pluton. Sulfidized boulders (Type 1 mineralization, as defined below) with metal contents of up to 56.85 g Au/t, 520 g Ag/t, and 15.2% Zn were soon discovered near the shoulder of old Hwy 37A, below the apparent target area.

Follow-up activities in 1992 located the Highway Zone Creek Showing, a quartz-ankerite vein system, situated about 900 m north of old Hwy 37A in upper Highway Zone Creek. Chip samples of Type 1 mineralization returned up to 9.85 g Au/t, 1163 g Ag/t, 0.33% Cu, 0.54% Pb and 0.33% Zn across a 3 m width. Sampling of a sulfide rich section of a quartz vein returned 123.3 g Au/t; 1897 g Ag/t; 0.85% Cu, 5.79% Pb and 0.47% Zn over 15 cm. Encouraging stream sediment anomalies and mineralization were also found in East Creek and Highway Zone Creeks.

An apparent extension of the favorable exploration environment, the Highway 37A Zone Showing ("the Highway Showing"), was discovered between and to the south of old Hwy 37A and Hwy 37A in 1999. In 2000, detailed geochemical and geological surveys expanded the Highway Showing target area to an additional 200 m to the south and 500 m to the southeast.

Interest in the Entrance Peak area has been recently stimulated by Teuton Resources Corp.'s discovery of gold and polymetallic mineralization on its Del Norte Property, about 9 km south of the Poly Property. As a result, new claim staking activity has encompassed much of the Entrance Peak area, including the Poly Property.

Exploration activities carried out on the Poly Property by Geofine in the summer of 2002 attempted to ascertain the various types, bedrock source areas, extent and controls of the high-grade polymetallic mineralization. The field work included the installation of grid and control lines in the lower target area and control lines in the upper target area; and, the carrying out of stream sediment, soil and rock geochemical surveys; vegetation and geological surveys; and, a vertical field magnetic survey.

The results of the stream sediment survey (28 samples) indicate that East Creek and Highway Zone Creek have consistently anomalous multi element signatures (MES i.e., Au, Ag, Cd, Cu, Pb, Zn, As, Sb) that warrant detailed follow-up. The Highway Zone Creek signature is of particular interest in view of the stronger gold values (up to 349 ppb) that occur over a 750 m strike length, which remains open to the north – towards the Highway Zone Creek Showing, and to the south.

The results of the detailed soil survey (162 samples) are interpreted to confirm the results of the stream sediment survey i.e., one of the principal target areas on the grid is located mainly on the west end of all the grid lines in the lower target area i.e., proximal to Highway Zone Creek. Locally, the target area extends to

the east to beyond BL50E, to East Creek. Anomalous soil Au, Ag, Cd, Cu, Pb, Zn and As zones show good correlation and trend north in the general area of Highway Zone Creek, along a strike length of over 600 m. The zones remain open for delineation and broaden in the southwest area of the grid, where the structural fabric appears particularly favourable for sulfide deposition.

The stream sediment and soil geochemical results are also indicative of a second, lower priority target area, in the Middle and East Creek areas, generally between L54N and L56N on the northern area of the grid. Anomalous soil gold, silver, copper, lead and arsenic values, along with some stream sediment anomalies, delineate the target.

The rock geochemical survey focused mainly on representative sampling of the ubiquitous sulfidized, angular float and sub crop boulders in creeks and on grid lines, and mineralized outcrop where available, to classify mineralization types and their host rocks; and, to determine their relative importance. The mineralization types and corresponding MES so identified in the 134 samples are:

Mineralization Type:	Elemental Signature:
Type 1: Highway Zone (pyrite, arsenopyrite, sphalerite, chalcopyrite, galena):	Au, Ag, Cd, Cu, Pb, Zn, As, Sb
Type 2: Pyrite, arsenopyrite:	Au, Ag, As, Sb +/- Cu, Pb, Zn
Type 3: Pyrrhotite +/-chalcopyrite:	Cu +/- Au, Ag, As
Type 4: Specular Hematite or Spec:	+/- Au, Cu

Based on MES threshold criteria (MESTC) developed by Geofine in Hazelton Group terrain in the Stewart Camp, 28% of the rock samples contain anomalous Au; 74% anomalous Ag; 17% anomalous Cd; 56% anomalous Cu; 16% anomalous Pb; 10% anomalous Zn; 32% anomalous As; and, 27% anomalous Sb.

Type 3 is the most abundant (49%) of the mineralized samples collected and accounts for 27% of the anomalous gold values. However, it usually lacks anomalous arsenic and antimony, thus explaining its generally weaker gold contents (up to 795 ppm). However, chalcopyrite is often associated with it, and individual samples do contain up to 4660 ppm copper.

Type 2 is also rather abundant (45% of the samples) and since anomalous arsenic and antimony are usually associated with it, so are most of the anomalous gold values (59%). This type can have significant gold and silver contents e.g., sample 683795RF from Upper Highway Zone Creek has a MES of 9560 ppb Au (average of 2 Chemex analyses), 126 ppm Ag, 2.1 ppm Cd, 265 ppm Cu, 124 ppm Pb, 280 ppm Zn, 195 ppm As and 77 ppm Sb. Most anomalous gold values in mineralized samples from East Creek are associated with Type 2 mineralization (up to 840 ppb Au).

Type 1 mineralization comprises only 4% of the samples, but accounts for 14% of the anomalous gold values. Most of it discovered to date on the grid has been found in angular boulders in and near Highway Zone Creek. As demonstrated by the results obtained from the higher-grade Type 1 samples collected in Highway Zone Creek in 2002, the mineralization can have a range of multi element signatures:

Sample No.	*Multi Element Signatures of Type 1 Mineralization:*							
	Au (ppb)	Ag (ppm)	Cd (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
683782RF*	9287	604	4.4	1070	335	162	539	198
683793RF	14750	791	218.0	4070	444	15200	3310	368
683943RF*	7050	209	30.8	869	406	2460	590	111

*Au values based on average of Chemex analyses and check analyses.

Type 4 comprises only 2% of the samples, which have one weakly anomalous gold value (24 ppb), and one anomalous copper value of 133 ppm.

The results of the rock geochemical survey suggest that mineralization Types 1 and 2 are the most important exploration targets, although Type 3 should not be overlooked; and, that the main target areas are lower and upper Highway Zone Creek and Upper East Creek. As indicated by the stream sediment and soil surveys, *the results also suggest that the strongest gold mineralization and polymetallic mineralization is located in* and proximal to Highway Zone Creek

The rock geochemical and geological surveys indicate that the mineralization types can be found in most of the altered (silicified, sulfidized +/- ankerite, sericite, fuchsite, chlorite, tetrahedrite, calcite, epidote) rock types observed on the grid: ash tuff is the host of 2% of the mineralized samples collected; crystal tuff, 7%; crystal tuff breccia, 51%; rhyolite, 1%; argillite, 8%; and, a variety of quartz veins and breccia vein types found in argillite, crystal tuff and crystal tuff breccia or as vein material, 31%. However, 40% of the anomalous Au values are associated with the quartz vein material; 13% are found in crystal tuff or crystal tuff breccia with associated quartz vein material; and 42% are associated with altered and sulfidized crystal tuff breccia. Forty-two percent of the rock samples with anomalous gold values were collected in Highway Zone Creek and 33% in East Creek.

The geological, structural and topographic information indicates that the creeks and their often-linear tributaries are mainly controlled by fractures that generally strike between 270 ° to 20° and dip vertically to 75° east. Such structures and their junctions and splays are interpreted to control the epithermal-mesothermal hydrothermal mineralization on the property. For example, Type 2 mineralization observed at the Ice Showings in Upper East Creek and Types 1 and 2 found in Highway Zone Creek generally comprise quartz-ankerite-sulfide fracture fillings hosted by altered crystal tuff breccia. The mineralization is often associated with fuchsite, with evidence of multi-phase activity (e.g., brecciation, flow banding).

Evidence of such structures and conjugate fractures are found in the few outcrops in the lower target area in Highway Zone Creek, and in the upper target area in Highway Zone Creek and East Creek. The southwest branch of lower Highway Zone Creek appears to follow a warp or inflection in the structural fabric. This structural environment appears amenable to the concentration of sulfide mineralization in fracture openings, as suggested by the results of the soil geochemical survey – i.e., the anomalous MES zones in vicinity of Highway Zone Creek tend to broaden in the area between the southwest trending creek and BL50E.

Based on the geological and magnetic surveys on the grid, a generally north-south trending, arcuate contact of the quartz monzonite pluton and Hazelton Group rocks has been interpreted to be located east of East Creek. Coarse crystal tuff breccia of the Unuk River Formation is the main apparent rock type, other than the quartz monzonite pluton. As evidenced in outcrops in the upper and lower target areas, such rocks in the vicinity of the structures have been silicified, sulfidized, sericitized, and oxidized (limonite, jarosite/alunite). More distal rocks have been epidotized, chloritized and carbonated.

The results of the vertical field magnetometer survey carried out on the lower target area indicate that magnetic relief on the grid lines and highway control lines increases from west to east towards the pluton and ranges up to about 400 nT on the grid lines, and up to about 1000 nT on control lines along the old and new Hwy 37A. The area of lowest magnetic relief is generally correlative with, or flanking to the main target area outlined by the soil geochemical soil survey i.e., in the vicinity of Highway Zone Creek and east to BL50E. The weak magnetic high, near the east end of the Hwy 37A and old Hwy 37A control lines, is interpreted to be associated with altered, pyrrhotized crystal tuff breccia in the area of the Highway Showing.

Numerous north-south magnetic high trends and magnetic low trends can be interpreted from the vertical field magnetic gradient. Disruptions in the magnetic high trends i.e., magnetic lows exhibiting line-to-line correlation, have been interpreted as fault zones by JVX Ltd. North trending faults include F-1, which has generally good correlation with most of the Highway Zone Creek structure as interpreted by Geofine. F-2 has a flanking to cross cutting association with East Creek. F-3 has direct correlation with upper East Creek,

but generally has up to a 60m, east flanking association with most of the creek structure, as interpreted by Geofine.

In the southwest area of the grid, F-1 and F-3 are warped to the southwest, suggesting the interpreted flexure in the bedrock. Northwest-southeast structures (F-4 and F-5) appear to disrupt the north-south trending magnetic highs. F-4 is located near the interpreted axis of the apparent flexure. The F-1 and F-4 structures and the areas of the structural junctions, along with the interpreted flexure area are deemed to offer priority targets for the high-grade, polymetallic mineralization.

The areas where in situ Type 1 mineralization had been located by historical surveys, (i.e., the important Highway Zone Creek Showing and upper East Creek, west branch) remained snow covered during the duration of the 2002 surveys. However, a much more assessable, high priority target area appears to have been delineated in proximity to lower Highway Zone Creek, particularly in the vicinity of old Hwy 37A.

The rationale for the target, as described above, includes stream sediment and soil geochemical anomalies in and in proximity to Highway Zone Creek, and the favourable geology and structural fabric. The geological and rock geochemical data suggest that epithermal-mesothermal hydrothermal quartz-sulfide veins and altered wall rock (mainly crystal tuff breccia) in and proximal to the structures host the high-grade Type 1 polymetallic mineralization and the Type 2 gold-silver mineralization. The importance of the Highway Zone Creek target area is further indicated by the average of the analytical results obtained from the 18 highest-grade, historical and 2002 samples of Type 1 and 2 mineralization collected from angular boulders in the creek. The samples were procured along a strike length of over 800 meters and have an average uncut grade of 15.74 g/t Au, 532.1 g/t Ag, 0.29% Cu, 0.11% Pb, and 0.74% Zn (Table A3.3)

It is recommended that a two phase, detailed follow-up exploration program totalling about $255,000 be carried out in 2003. The Phase 1 work should include a spectral induced polarization/resistivity survey, which will define both sulfides (high chargeability values) and alteration/silicification (high resistivity values) and assist in prioritizing drill targets.

Expanded magnetic, geological and geochemical surveys are also proposed. The 2002 grid lines installed at 100 m spacing will have to be restored after the 2003 winter snow accumulations destroy the picketed stations. They will also have to be lengthened, since the main target area is located on the west end of most of the lines. Infill grid lines should also be installed to achieve a 50 m line spacing on the grid, where feasible. It is anticipated that the IP survey could be carried out on old Hwy 37A, and on L49+50N to L54N, and possibly on Hwy 37A, if the power line does not interfere. Chargeability and resistivity anomalies in proximity to Highway Zone Creek and the Highway Showing should offer high priority drill targets.

As noted above, snow conditions during the 2002 field program negated work on the Highway Zone Creek Showing and the west upper East Creek area. The topography of the upper target area is not amenable to IP surveying. However, an offset base line to BL50E, i.e., BL50+75E, should be installed to the north from L56N, and grid lines cut initially at a100 m spacing. The geochemical and geological surveys on the small grid would attempt to evaluate the rather prospective area between upper Highway Zone Creek and East Creek.

The proposed 2003 program includes provision for a Phase 2 drill program, which should entail at least 600 m of diamond drilling or more, depending on the cost of helicopter support. The Highway Zone Creek Showing continues to offer one of the most prospective drill targets on the property, and it should consitute one of the initial drill tests.

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REPORT ON THE 2002 ENTRANCE PEAK PROJECT

POLY PROPERTY, SKEENA MINING DIVISION,

NORTHWESTERN BRITISH COLUMBIA

1. INTRODUCTION:

The following report reviews the 2002 exploration program carried out in the Highway Zone Creek and East Creek area of the Poly Property (Photo 1, Map 1). The Poly 1-7 claims are located in the Entrance Peak Area of the Stewart Gold Camp (Figures 1, 2, 2A), Northwestern British Columbia. The property was staked in 1999 to cover a favourable geological setting, which includes altered Hazelton Group rocks intruded by a quartz monzonite pluton.

The exploration target is high-grade, epithermal-mesothermal hydrothermal gold and polymetallic mineralization, generally with a multi element signature (MES) of Au, Ag, Cd, As, Sb +/-, Cu, Pb, and Zn. The target mineralization is associated with silica flooded and sulfidized, north striking and steeply east dipping structures, and with altered wall rock. The mineralization generally comprises pyrite +/- arsenopyrite, sphalerite, chalcopyrite and galena. It mainly occurs as disseminations, stringers and semi massive sulfide veins and lenses in quartz-ankerite-fuchsite stockworks and veins, and in silicified and pyritized crystal tuff breccia wall rock.

An indication of the potential of the target is provided by the analytical results obtained from the 18 higher-grade historical and 2002, Type 1 polymetallic and Type 2 gold-silver samples collected in Highway Zone Creek: the samples have an average uncut grade of 15.74 g/t Au, 532.1 g/t Ag, 0.29% Cu, 0.11% Pb, and 0.74% Zn (Table A3.3). Larger concentrations of such mineralization are postulated to be located at structural junctions and inflections in the structural fabric.

Relevant Stewart Camp exploration models hosted by altered Hazelton Group rocks include aspects of the historical Silbak-Premier deposit (Figure 2), which produced 56,000 kg of Au and 1,281,400 kg of Ag from 1918 to 1976; and, of the Marc Zone, Red Mountain deposit (Figure 2) type mineralization (auriferous pyrite and chalcopyrite in fracture controlled, often brecciated zones associated with a quartz monzonite intrusion), which totals about 0.75 M oz grading about 10 g Au/t.

2. POLY PROPERTY:

The Poly 1-7 mineral claims comprise 93 units (about 23 square km) on British Columbia Mineral Titles Map 104A04E (Figure 2A, Map 1, Table 1). The claims are registered in the name of Geofine Exploration Consultants Ltd, as Nominee for Geofund, a private investment group, which owns the property. Island Arc Exploration Inc. holds an option on the property and can earn a 100% ownership interest, by fulfilling escalating work conditions and option and share payments.

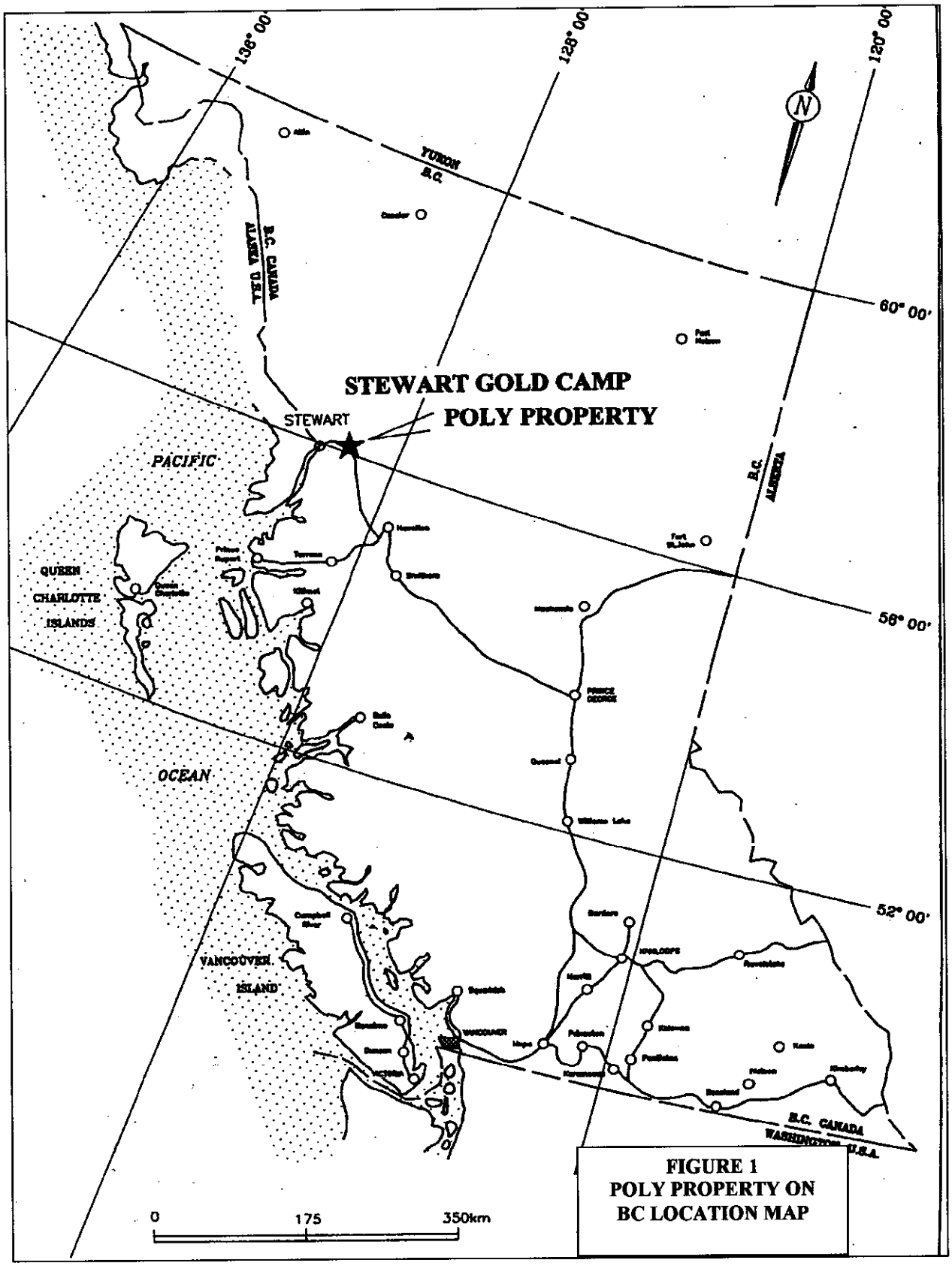


FIGURE 1
POLY PROPERTY ON BC LOCATION MAP

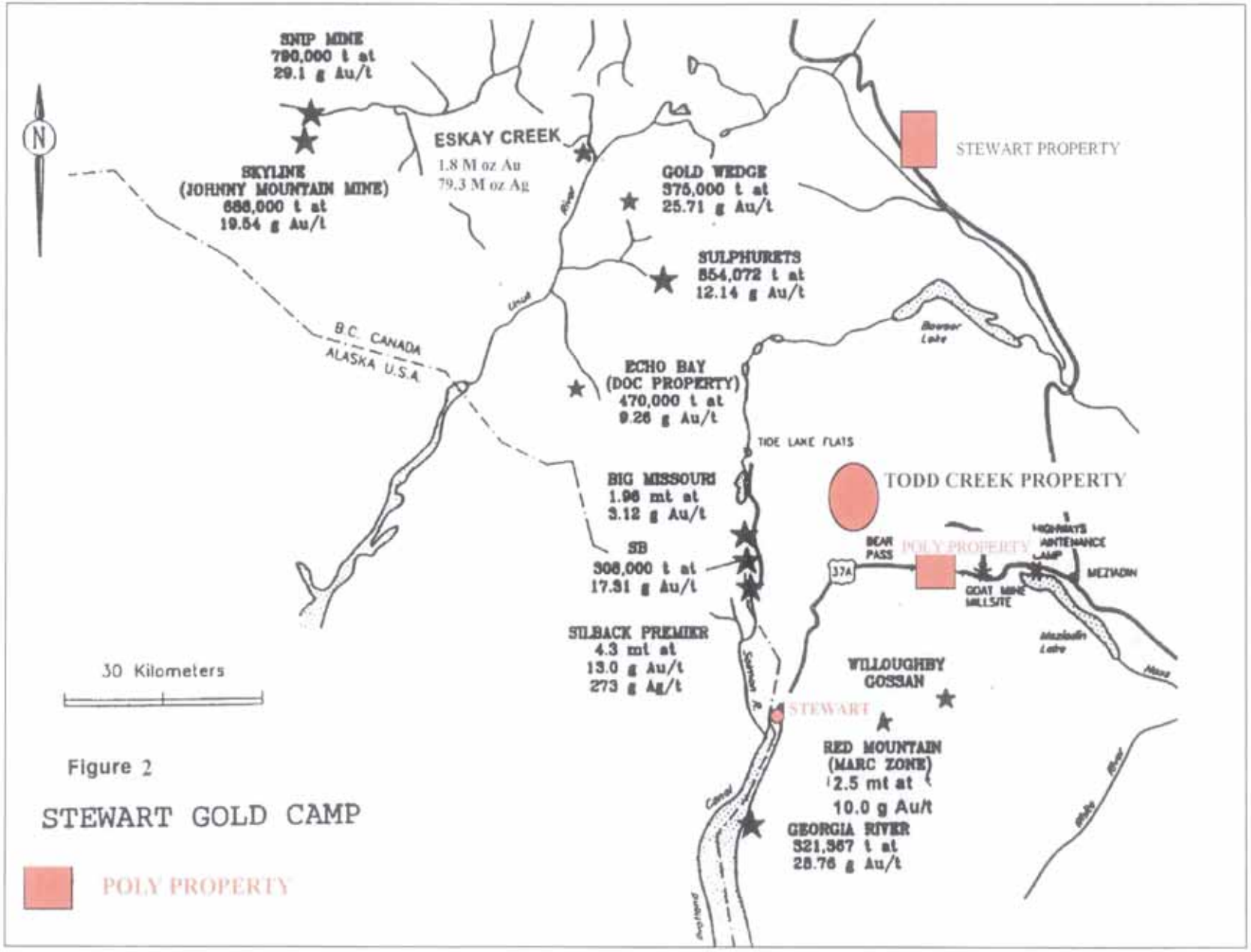
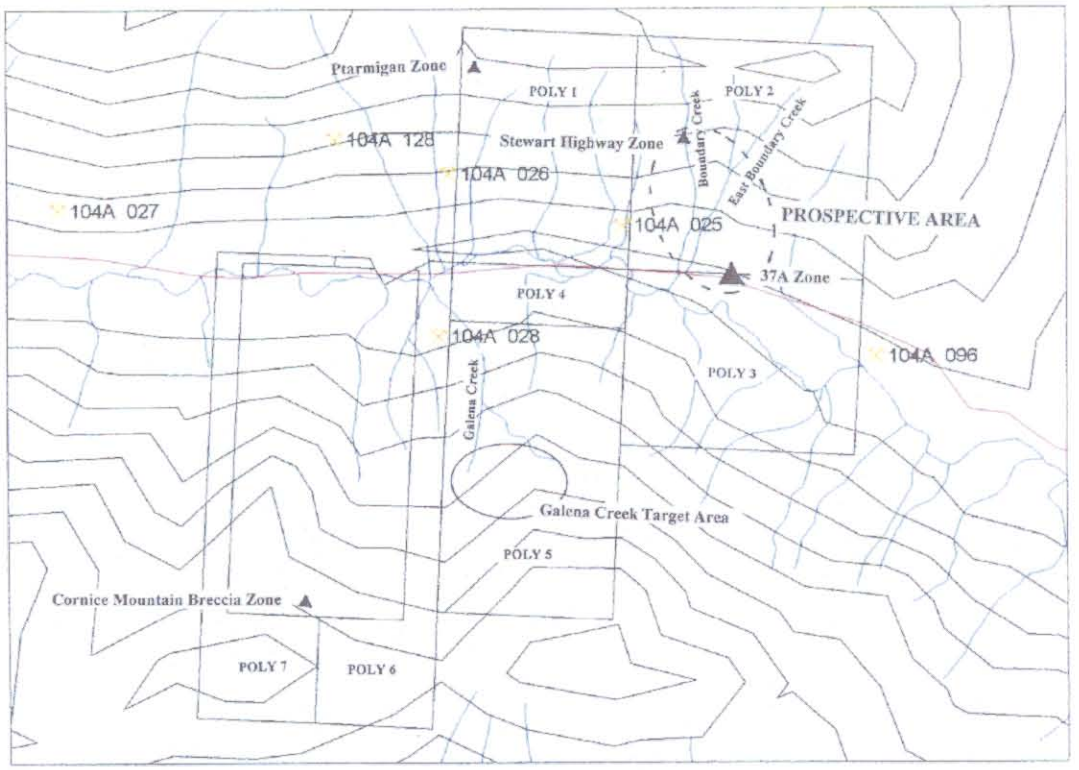


Figure 2

STEWART GOLD CAMP

B.C. Ministry of Energy and Mines



Minfile Number Label
- Developed Prospect
- Past Producer
- Producer
- Prospect
- Showing
- All Others

ROADS (250)
Contours (250)
Streams (1:50k)

FIGURE 2A
(AFTER KENNEDY, 2000)

POLY PROPERTY MINERAL CLAIMS AND AREA MINFILE SHOWINGS

TABLE 1

POLY CLAIMS, ENTRANCE PEAK PROJECT:

CLAIM	UNITS	TENURE NO.	EXPIRY DATE
POLY 1	12	370975	JULY 17, 2004
POLY 2	16	370976	JULY 17, 2003
POLY 3	12	370977	JULY 17, 2003
POLY 4	3	370978	JULY 17, 2003
POLY 5	18	378755	JULY 17, 2003
POLY 6	16	378756	JULY 17, 2003
POLY 7	16	378757	JULY 17, 2003

TOTALS: 7 CLAIMS; 93 UNITS

3. LOCATION AND ACCESS:

The Poly Claims (Figures 1-3) are located in the Skeena Mining Division of Northwestern British Columbia, about 42 km east of Stewart or about 18 km of west of Meziadin Lake, in the Entrance Peak Area of the Stewart Gold Camp. Stewart is located on the Portland Canal (Figure 2) and has the distinction of being Canada's most northerly, ice-free seaport.

The Poly Property is part of the Entrance Peak Project, which is centred at about Latitude 56° 07'N, Longitude 129° 32'W on NTS Map 104A/04E (Map 2). The old and new segments of Hwy 37A (Photo 2) trend generally west through the centre area of the Poly Claims, and provide excellent year round access. The Stewart Power Line also trends west through the property south of Hwy 37A (Photo 2). The power line corridor and various trails to it provide access to the southern part of the property. A road to the Windy Point avalanche station, located north of Strohn Creek, provides some access to the southeastern area of the property i.e., on the Poly 3 Claim.

4. TOPOGRAPHY, DRAINAGE, CLIMATE, WILDLIFE & VEGETATION:

The Poly Property straddles the Strohn Creek Valley (Photo 2), which trends generally east west. Elevations range from over 400 m above sea level in the valley, to over 2100 m on Entrance Peak (Figure 4; Map 2). The mountain terrain is incised with young, deep valleys, which extend south and north from Hwy 37A. High-energy creeks flow south and north into the main valley, which is drained to the east by Strohn Creek. The creeks often have thick boulder beds (Photo 3), such that during dry summer periods, weak flow is internal in the otherwise apparently dry creeks. The narrow mountain valleys are conducive to the development of avalanche conditions in the winter months.

The 2002 field activities were located north of Hwy 37A on the north side of the Strohn Creek Valley (Photo 1, Map 2) at elevations ranging between 425 and 1050 m. The south facing mountain slopes average about 25°. The exploration area is located immediately to the west of the much steeper topography associated with the Entrance Peak Pluton.

The exploration field season in the Stewart Camp generally extends from late June to October. However, with their good access and lower elevations, the Poly Property exploration targets can be pursued for much of the year. In the spring of 2002, the Stewart area experienced some heavy snowfalls, which remained at higher elevations until late August.

Winters have been getting milder and glaciers are receding rapidly in the Stewart area. However, snow can cover higher evaluations in early September and accumulations can total several meters in a 24-hour period. Recorded mean annual snowfalls in the area range from 520 cm at Stewart (sea level) to 1,500 cm at Tide Lake Flats (915 m elevation). Summers are usually mild but the proximity to the ocean and relatively high mountains can make for highly changeable weather, including dense morning fog and rain along the coast.

The weather systems are often channelled through the Bear Pass on Hwy 37A into the Strohn Valley where they often dissipate on contact with the much more stable air mass to the east. A climatic phenomenon often exists on the Poly Property, such that rain can fall all day on the west side of the property (west of Highway Zone Creek), while the east side remains sunny and completely dry.

Wildlife on and in the area of the Poly Property can include skunks, mountain goats, moose, foxes, black bears, grizzly bears, wolves, coyotes, lynx, marmots, martins, ptarmigan, eagles, hawks, jays, gulls, and crows. Swarms of bees and flocks of migrating robins are not uncommon. Vegetation in the valleys and on their sides ranges from dense tag alders, devil's club, ferns and fireweed to areas of spruce, pine and poplar forest. Sub-alpine spruce thickets, with heather and alpine meadows, occur at higher elevations. Bare rock, talus slopes and glaciers with occasional islands of alpine meadow prevail above tree line, at approximately 1,200 m.

The main area of the 2002 grid on the Poly Property is covered by dense tag alders (Photos 1, 4), which have been further compacted and oriented down slope by snow accumulations. Any small openings in the alders are filled with mature devil's club. As such, the dominant MV1 cover is rather formidable and budgets have to make allowance for extra costs involved in linecutting.

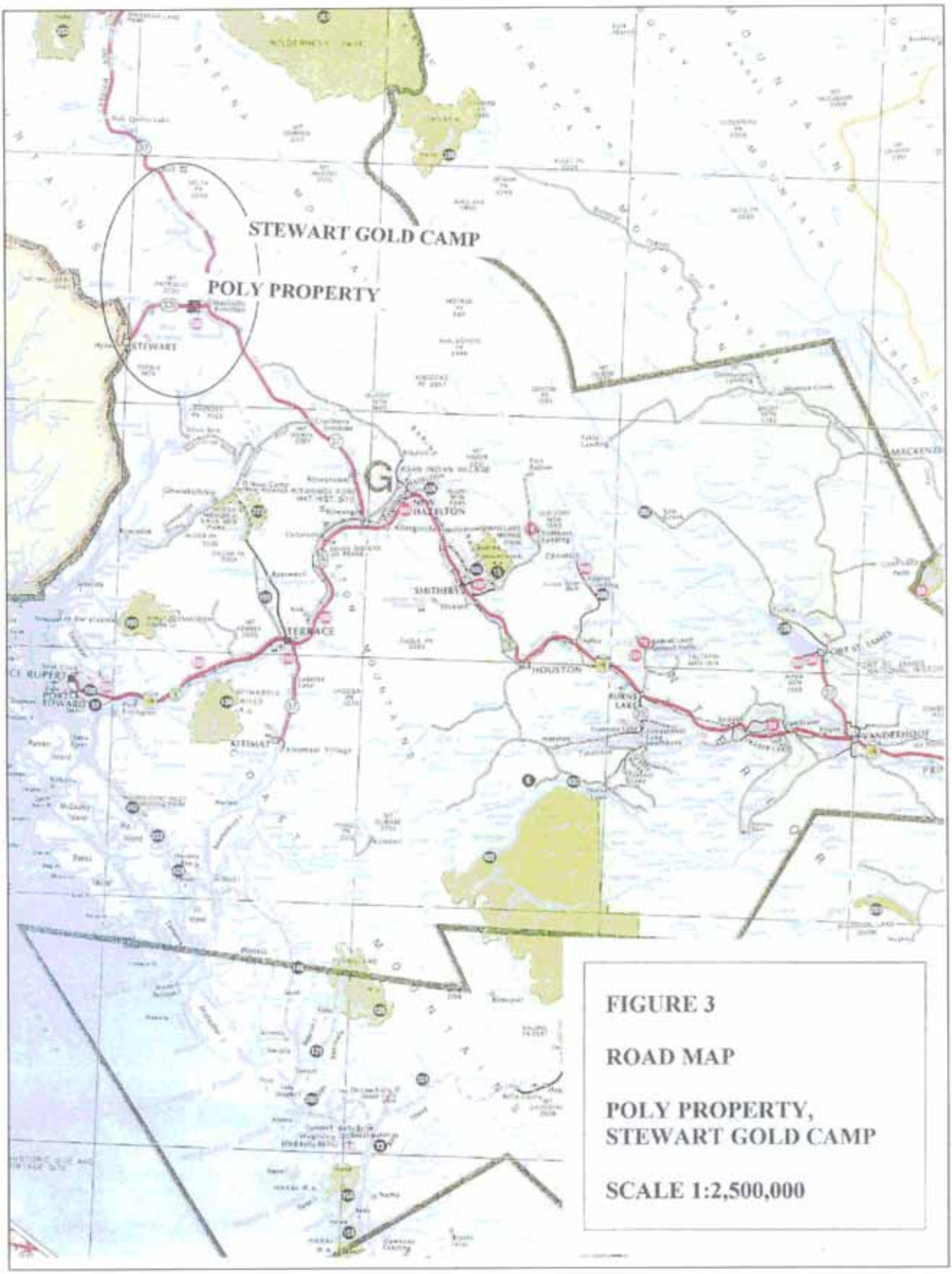


FIGURE 3

ROAD MAP

POLY PROPERTY,
STEWART GOLD CAMP

SCALE 1:2,500,000

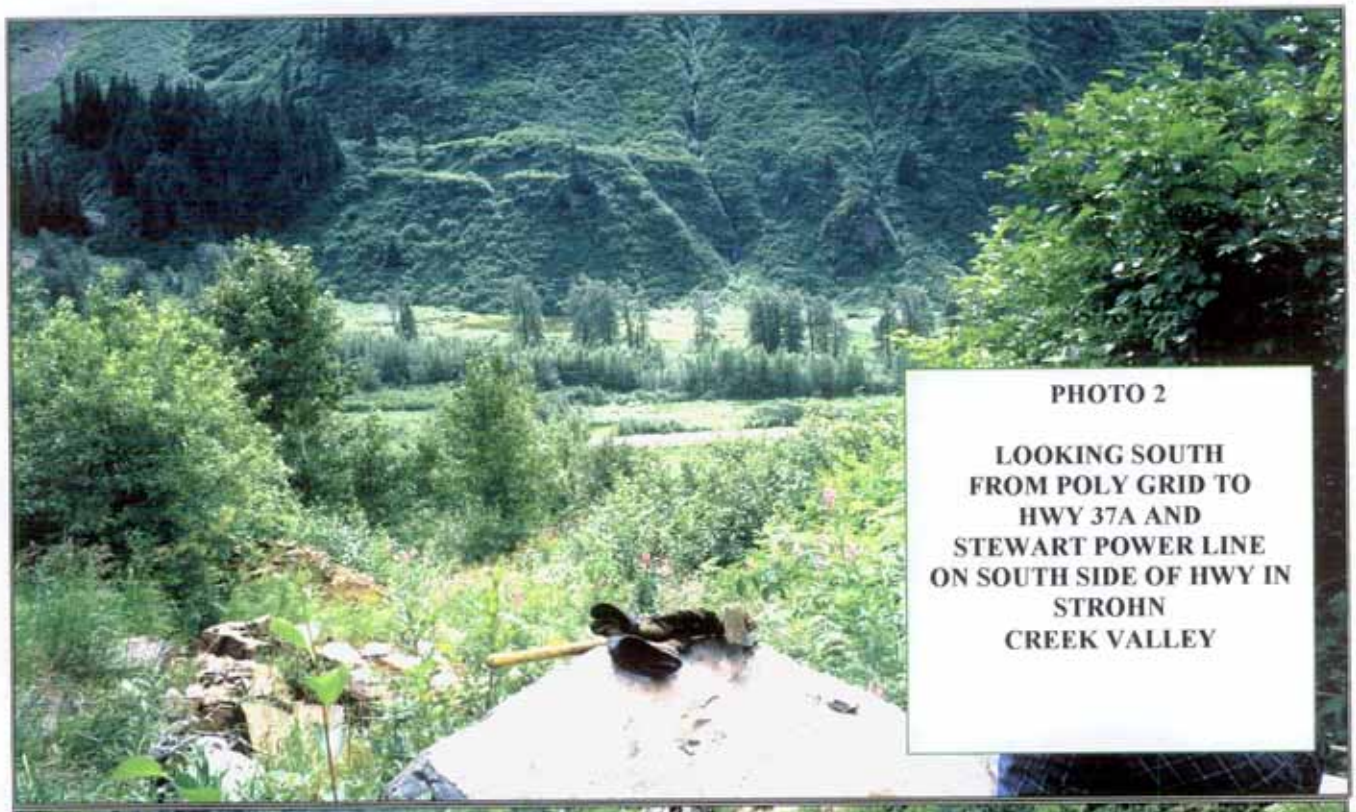


PHOTO 2

LOOKING SOUTH FROM POLY GRID TO HWY 37A AND STEWART POWER LINE ON SOUTH SIDE OF HWY IN STROHN CREEK VALLEY

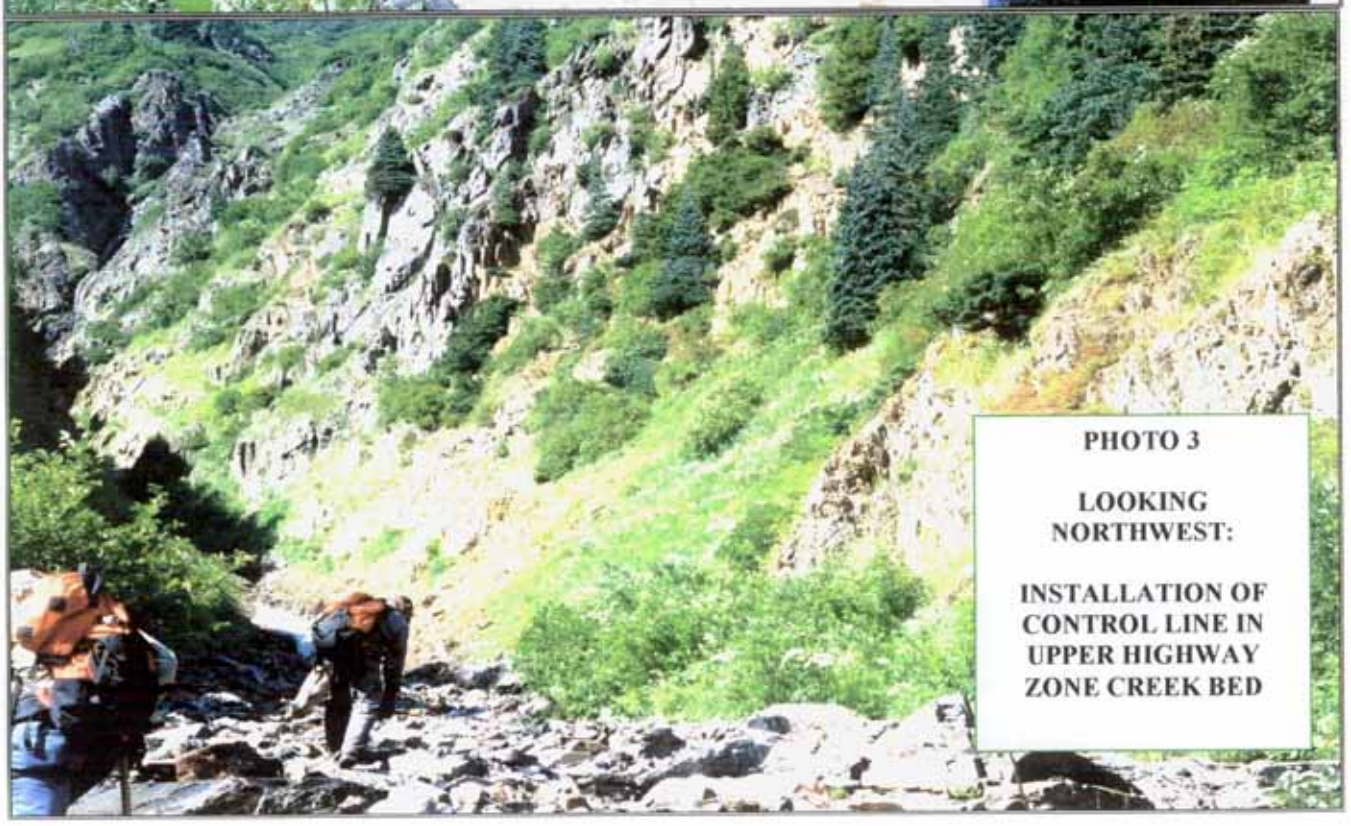


PHOTO 3

LOOKING NORTHWEST:

INSTALLATION OF CONTROL LINE IN UPPER HIGHWAY ZONE CREEK BED

PHOTO 4

LOOKING E ALONG L56N

VEGETATION TYPES:
MV1 TAG ALDERS AND DEVIL'S CLUB
MV2 FIR AND POPLAR IN BACKGROUND

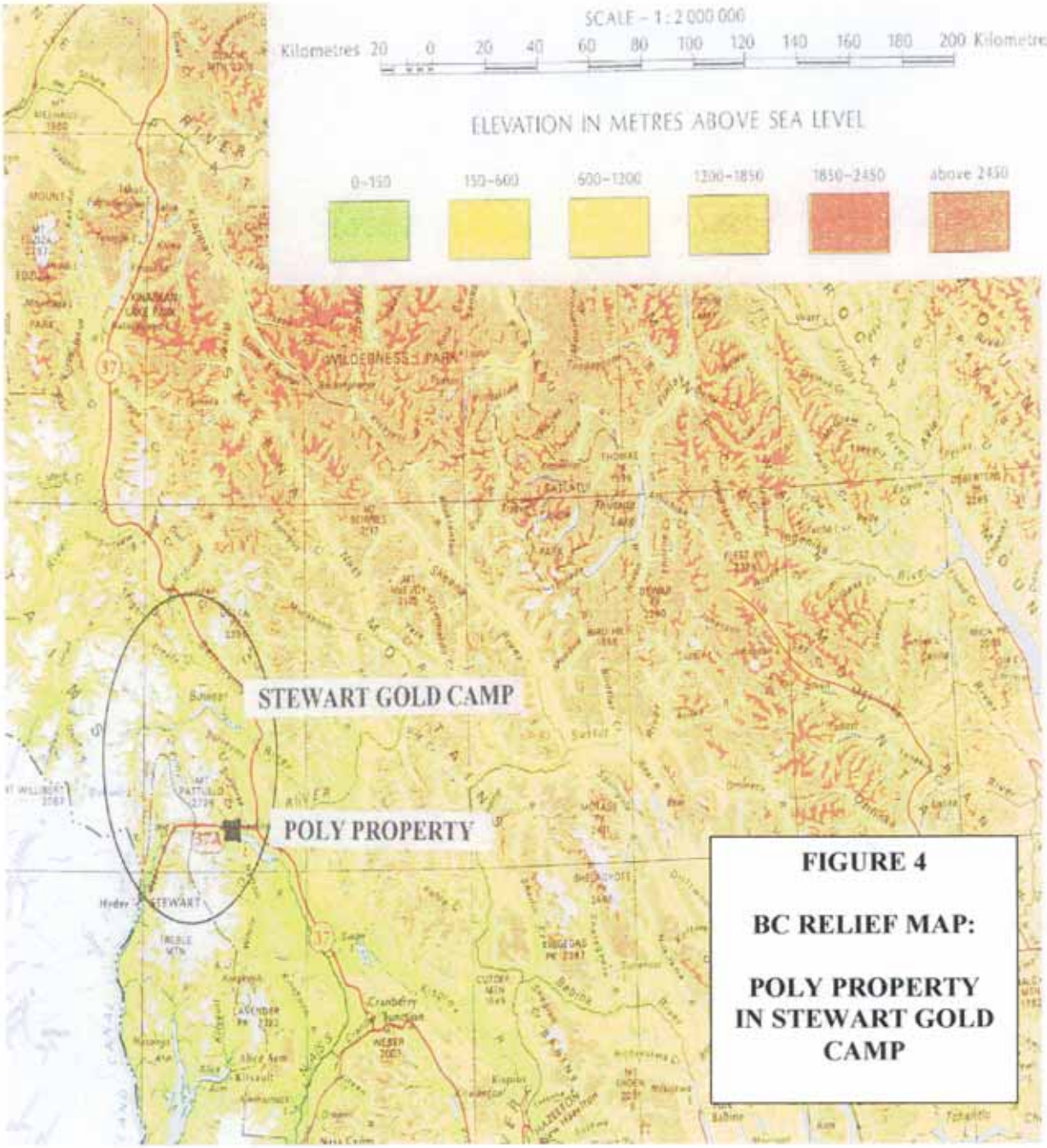


FIGURE 4

BC RELIEF MAP:

POLY PROPERTY IN STEWART GOLD CAMP

5. STEWART CAMP GEOLOGY:

The Poly Property is located in the Stewart Gold Camp (Figure 2), which is characterized by a broad, north-northwest trending volcanogenic-plutonic belt consisting of the Upper Triassic Stuhini Group and the Upper Triassic to Lower Middle Jurassic Hazelton Group. This belt has been termed the "Stewart Complex" (Figures 5, 6) by Grove (1986) and forms part of the Stikinia Terrain. The Stikinia Terrain, together with the Cache Creek and Quesnel Terrains, constitute the Intermontaine Superterrane, which was accreted to North America in Middle Jurassic time (Monger et al, 1982). To the west, the Stewart Complex is bordered by the Coast Plutonic Complex. Sedimentary rocks of the Middle to Upper Jurassic Bowser Lake Group overlay the Stewart Complex in the east.

The Jurassic stratigraphy was established by Grove (1986, Figure 5) during regional mapping conducted from 1964 to 1968. Formational subdivisions have been made and are currently being modified and refined as regional work continues, most notably by the Geological Survey Branch of the British Columbia Ministry of Energy, Mines and Petroleum Resources (Alldrick, 1984, 1985, 1989); and, by the Geological Survey of Canada (Anderson, 1989; Anderson and Thorkelson, 1990; Lewis, et al, 1993; Creig, et al, 1995). The sedimentological, structural, and stratigraphic framework of the area is being established with some degree of precision.

The Hazelton Group represents an evolving (alkalic/calc-alkalic) island arc complex, capped by a thick turbidite succession (Bowser Lake Group). Grove (1986) divided the Hazelton into four litho-stratigraphic units (time intervals defined by Alldrick, 1987):

1. The Upper Triassic to Lower Jurassic Unuk River Formation (Norian to Pliensbachian).

2. The Middle Jurassic Betty Creek Formation (Pliensbachian to Toarcian).

3. The Middle Jurassic Salmon River Formation (Toarcian to Bajocian).

4. The Middle to Upper Jurassic Nass Formation (Toarcian to Oxfordian - Kimmeridigian).

Alldrick assigned formational status (Mt. Dilworth Formation, Figure 6A) to a Toarcian rhyolite unit (Monitor Rhyolite) overlying the Betty Creek Formation. Rocks of the Salmon River Formation are transitional between the mostly volcanic Hazelton Group and the wholly sedimentary Bowser Lake Group and are presently regarded as the uppermost formation of the Hazelton or the basal formation of the Bowser Lake Group.

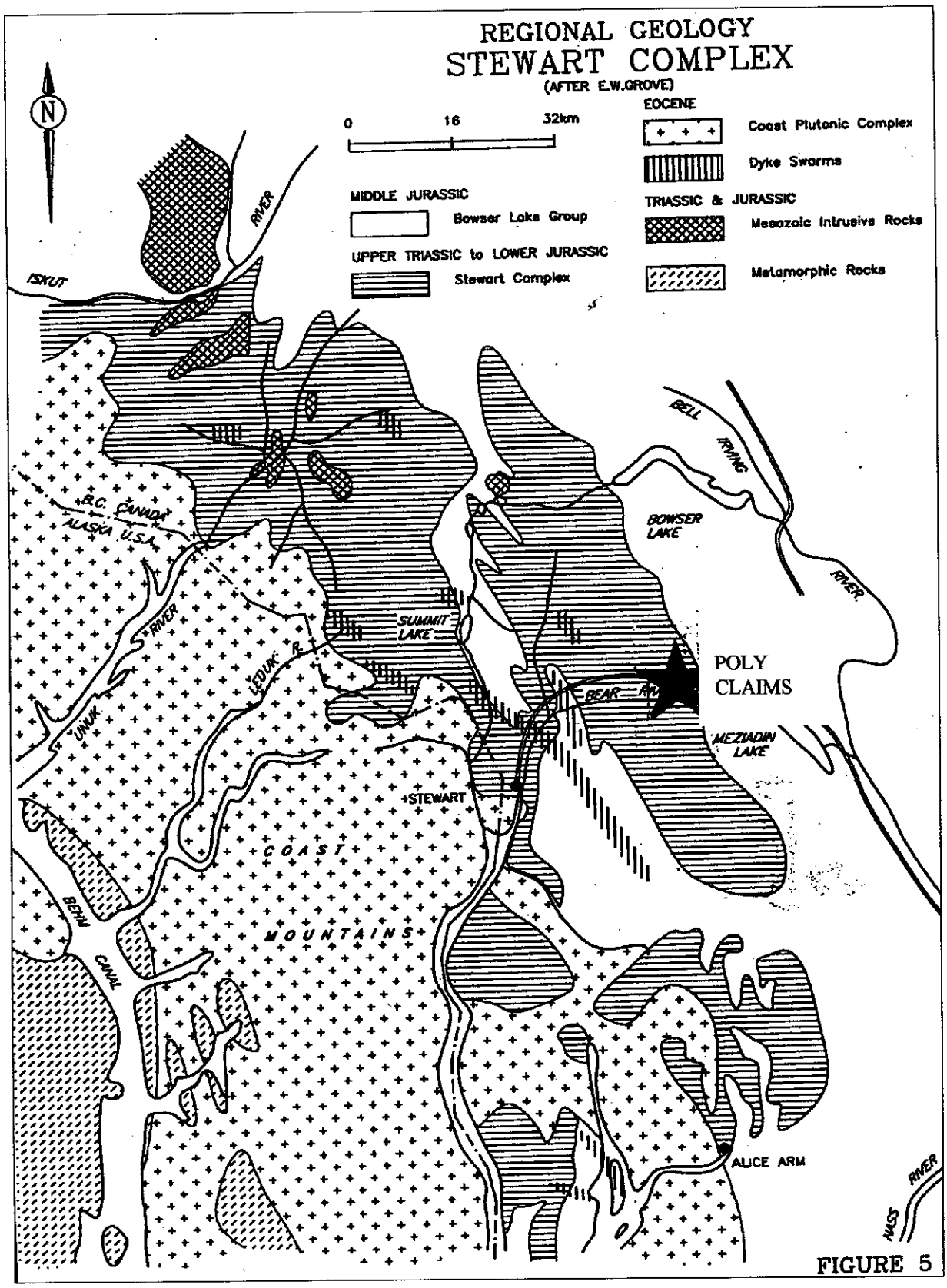

REGIONAL GEOLOGY
STEWART COMPLEX
(AFTER E.W.GROVE)
N
0
16
32km
EOCENE
Coast Plutonic Complex
Dyke Swarms
TRIASSIC & JURASSIC
Mesozoic Intrusive Rocks
Metamorphic Rocks
MIDDLE JURASSIC
Bowser Lake Group
UPPER TRIASSIC to LOWER JURASSIC
Stewart Complex
ISKUT
RIVER
BELL
IRVING
B.C. CANADA
ALASKA U.S.A.
BOWSER LAKE
RIVER
SUMMIT LAKE
LEDUC R.
UNUK
RIVER
POLY CLAIMS
BEAR ARM
MEZIADIN LAKE
STEWART
COAST
MOUNTAINS
BEAR
CANAL
ALICE ARM
NASS
RIVER

FIGURE 5

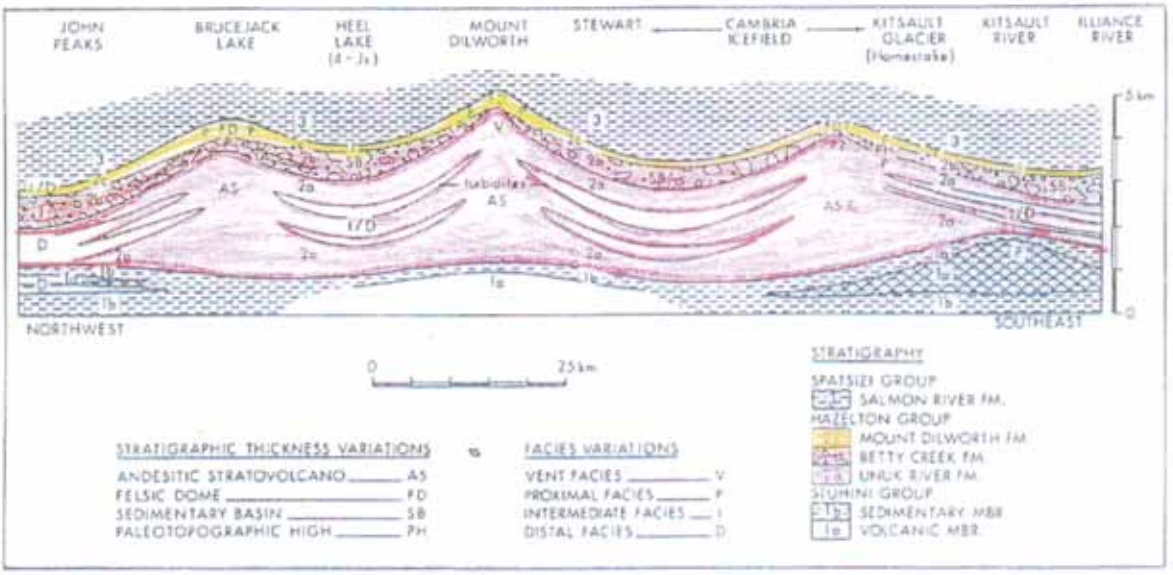


Figure 1-27-4. North-south schematic reconstruction through the Stewart complex.

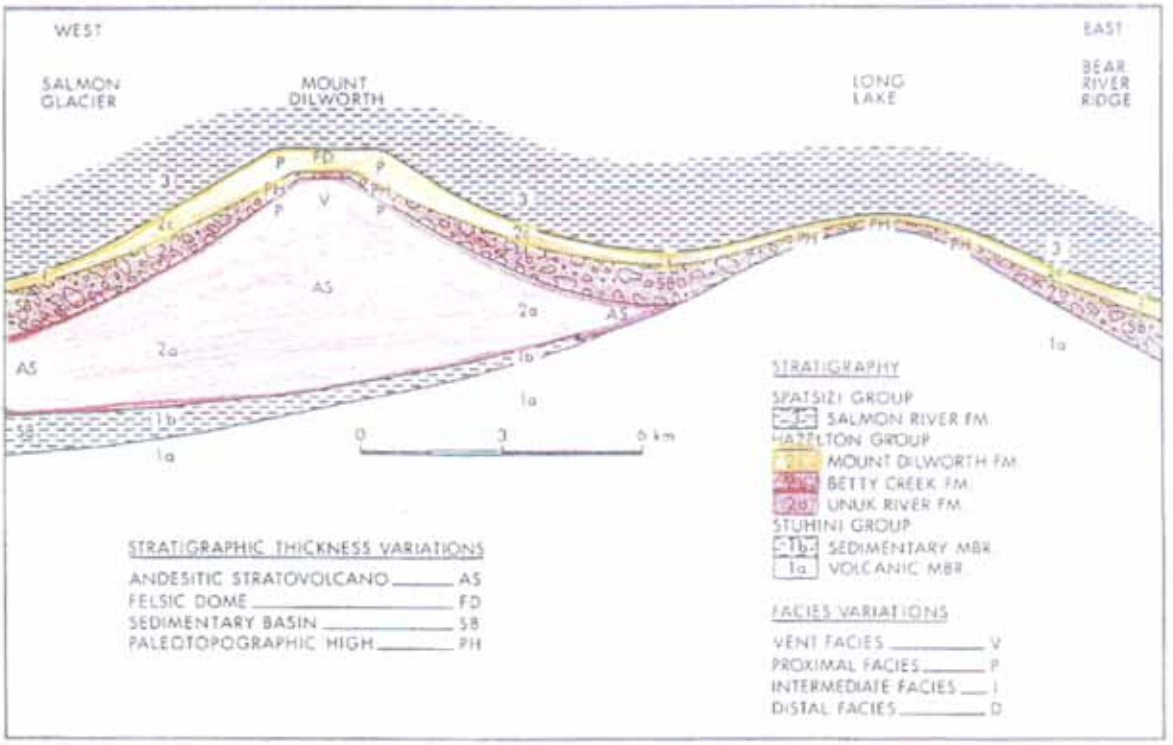


Figure 1-27-5. West-east schematic reconstruction through the Stewart complex.

FIGURE 6A

DILWORTH FORMATION IN STEWART COMPLEX STRATIGRAPHY

The Unuk River Formation (Figure 6A), a thick sequence of andesite flows and pyroclastic rocks with minor interbedded sedimentary rocks, hosts a number of major gold deposits in the Stewart Camp (Figure 2). The unit is unconformably overlain by heterogeneous, maroon to green, epiclastic volcanic conglomerates, breccias, greywackes and finer grained clastic rocks of the Betty Creek Formation. Felsic flows, tuffs and tuff breccias characterize the Mt. Dilworth Formation (Figure 6A). This formation represents the climatic and penultimate volcanic event of the Hazelton Group volcanism and forms an important regional marker horizon. The overlying Salmon River Formation has been subdivided in the Iskut area into an Upper Lower Jurassic and a Lower Middle Jurassic member (Anderson and Thorkelson, 1990). The upper member has been further subdivided into three north trending facies belts: the eastern Troy Ridge facies (starved basin), the medial Eskay Creek facies (back-arc basin) and the western Snippaker Mountain facies (volcanic arc).

Sediments of the Bowser Lake Group rest unconformably on the Hazelton Group rocks and they include shales, argillites, silt and mudstones, greywackes and conglomerates. The contact between the Bowser Lake Group and Hazelton Group passes between Strohn Creek in the north and White River in the south. The contact appears to be a thrust zone with the Bowser Lake Group sediment "slices" occurring within and overlying the Hazelton Group pyroclastics to the west.

Two main intrusive episodes occurred in the Stewart area: a Lower Jurassic suite of diorite to granodiorite porphyries (Texas Creek Suite) that are comagmatic with extrusive rocks of the Hazelton Group; and, an Upper Cretaceous to Early Tertiary intrusive complex (Coast Plutonic Complex and satellite intrusions). The early Jurassic suite is characterized by the occurrence of coarse hornblende, orthoclase and plagioclase and phenocrysts and locally potasium feldspar megacrysts. The Eocene Hyder quartz-monzonite, comprising a main batholith, several smaller plugs and a widespread dyke phase, represents the Coast Plutonic Complex.

Middle Cretaceous regional metamorphism (Alldrick et al., 1987) is predominantly of the lower greenschist facies. This metamorphic event seems to be related to compression and concomitant crustal thickening at the Intermontaine - Insular superterrane boundary (Rubin et al. 1990). Biotite hornfels zones are associated with a majority of the quartz monzonite and granodiorite stocks.

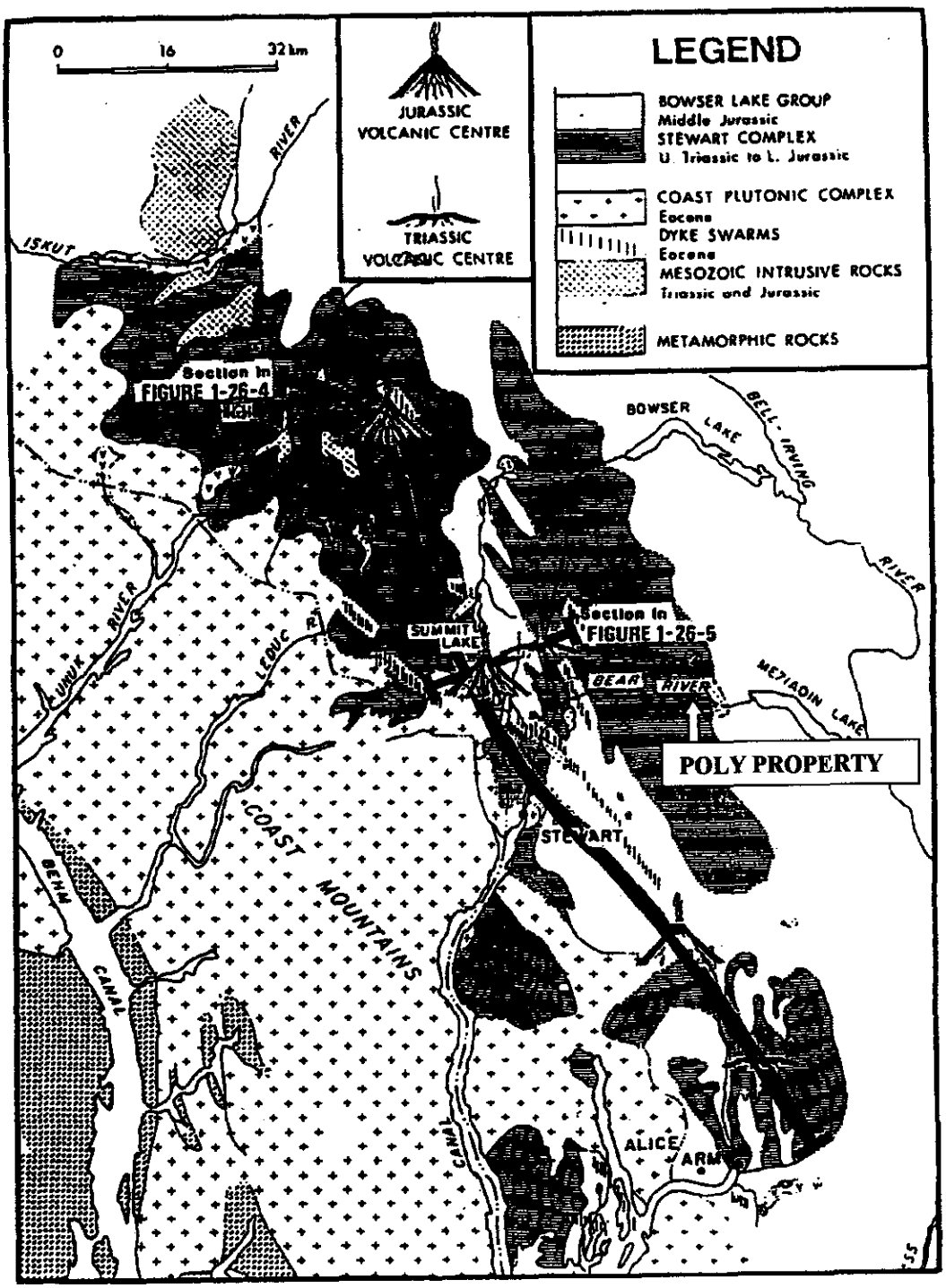
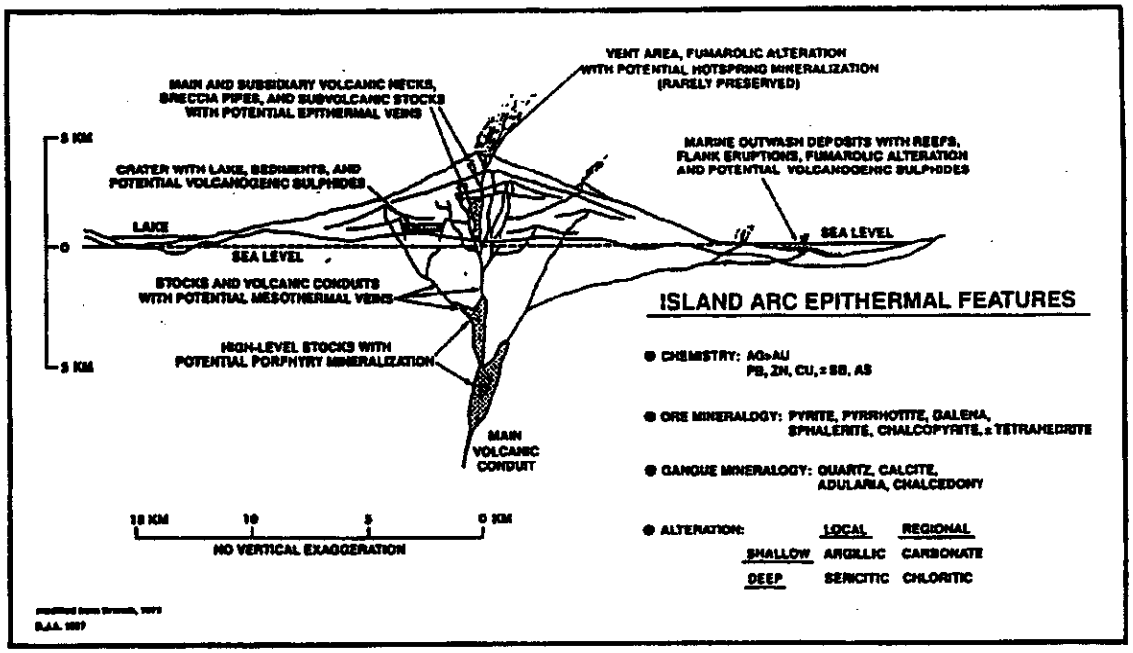


Figure 1-27-3. Distribution of the Stewart complex showing the locations of section lines for Figures 1-27-4 and 1-27-5.

FIGURE 6B

STEWART VOLCANIC BELT



Distribution of ore deposits within a stratovolcano (modified from Branch, 1976).

FIGURE 6C

MINERALIZATION TYPES
STEWART CAMP

6. STEWART CAMP MINERALIZATION AND EXPLORATION ACTIVITY:

The Stewart Complex is the setting for the Stewart (Silbak-Premier, Silver Butte, Big Missouri, Red Mountain, Snip, Johnny Mountain, Eskay Creek), Sulphurets, and Kitsalt (Alice Arm) gold/silver mining camps (Figure 2). Mesothermal to epithermal, depth persistent gold-silver veins form one of the most significant types of economic deposit. There appears to be a spatial as well as a temporal association of gold deposits to Lower Jurassic Calc-alkaline intrusions and volcanic centres (Figures 6B, C). These intrusions are often characterized by 1-2 cm sized, potassium feldspar megacrysts and correspond to the top of the Unuk River Formation.

The most prominent example of this type of mineralization is the historical Silbak-Premier gold-silver mine, which has produced 56,000 kg of gold and 1,281,400 kg of silver in its original lifetime from 1918 to 1976. The mine was re-opened by Westmin in 1988 with reserves quoted at 5.9 million tonnes grading 2.16 g gold/t and 80.23 g silver/t (Randall, 1988). The mine was closed in the summer of 1997 and the mill is currently up for sale.

The ore is hosted by Unuk River Formation andesites and comagmatic Texas Creek porphyritic dacite sills and dykes. The ore bodies comprise a series of en echelon lenses, which are developed over a strike length of 180 m and through a vertical range of 600 m (Grove, 1986; McDonald, 1988). The mineralization is controlled by northwesterly and northeasterly trending structures and their intersections, but also occurs locally concordant with andesitic flows and breccias.

Two main vein types occur: silica-rich, low-sulfide precious metal veins and sulfide-rich base metal veins. The precious metal veins are more prominent in the upper levels of the deposit and contain polybasite, pyrargyrite, argentiferous tetrahedrite, native silver, electrum and argentite. Combined sulfides of pyrite, sphalerite, chalcopyrite and galena are generally less than 5%. The base metal veins crosscut the precious metal veins and increase in abundance with depth. They contain 25 to 45% combined pyrite, sphalerite, chalcopyrite and galena, with minor amounts of pyrrhotite, argentiferous tetrahedrite, native silver, electrum and arsenopyrite.

Quartz is the main gangue mineral, with lesser amounts of calcite, barite, and some adularia being present. The mineralization is associated with strong silicification, feldspathization, and pyritization. A temperature range of 250 to 260 degrees C has been determined for the deposition of the base and precious metals (McDonald, 1990).

Middle Eocene silver-lead-zinc veins are characterized by high silver to gold ratios and by spatial association with molybdenum and/or tungsten occurrences. They are structurally controlled and lie within north, northwest, and east trending faults. This mineralization has been less significant in economic terms.

Porphyry molybdenum deposits are associated with Tertiary Alice Arm Intrusions, a belt of quartz-monzonite intrusions parallel to the eastern margin of the Coast Plutonic Complex. An example of this type of deposit is the BC Molybdenum Mine at Lime Creek.

The world class Eskay Creek Mine (Figure 2; December 2001 total reserves of 1.8 M oz of gold and 79.3 M oz of silver; and, total deposit size of about 7.10 M oz gold equivalent) was obtained by Barrick Gold in a merger with Homestake in 2001. The deposit is hosted within Contact Unit carbonaceous mudstone and breccia, as well as the underlying rhyolite breccia. Two styles of mineralization are present. The first is a visually striking assemblage of disseminated to near massive stibnite and realgar within the Contact Unit. The second style occurs in the adjacent footwall rhyolite, and features a stock work style quartz-muscovite-chlorite breccia mineralized with sphalerite, tetrahedrite and pyrite. Highest gold and silver values are obtained where the Contact Unit is thickest and the immediately underlying rhyolite breccia is highly fractured and altered. Drilling continues to expand the original, approximately 280 m by 100 m zone that has an average thickness of 10 m.

The Eskay Creek 21B deposit is approximately 900 m long, from 60 to 200 m wide and locally in excess of 40 m thick. Contact Unit mineralization comprises a continuous stratiform sheet of banded high-grade gold and silver bearing base metal sulfide layers, from 2 to 12 m thick. Mineralization appears to be bedding parallel. Sulfide minerals present include sphalerite, tetrahedrite, boulangerite, bornite plus minor galena and pyrite. Gold and silver are associated with electrum, which occurs as abundant grains associated with sphalerite. Peripheral and footwall to the banded sulfide mineralization, are areas of microfracture, veinlet hosted, disseminated tetrahedrite, pyrite and minor boulangerite mineralization.

In 2002, the Wheaton River Group sold its interest in the Red Mountain deposit to Seabridge Gold Inc., which also purchased the Kerr and Sulphurets projects in the Stewart Camp (Figure 2). At the Red Mountain deposit, the Marc Zone and its northerly extension, the AV Zone, occur as sulfide lenses or cylinders associated with a structural junction and the brecciated contact of the Goldslide Intrusion. The mineralization consists of densely disseminated to massive pyrite and/or pyrite stringers and veinlets and variable amounts of arsenopyrite, tetrahedrite and various tellurides. Several phases of mineralization and deformation are indicated by the presence of different generations of pyrite and breccia fragments consisting of pyrite. High-grade gold values are usually associated with the semi massive, coarse-grained pyrite aggregates, but also with stock works of pyrite stringers and veinlets. Gold occurs as native gold, electrum and as tellurides. Approximately 1 M ounces have been outlined to date, with an average grade of about 10 g Au/t.

Seabridge has recently signed an agreement, which allows Noranda to earn a majority interest in Kerr-Sulphurets Deposit (Figure 2; Northern Miner, Sept 23, 2002).

As summarized by Seabridge, the Kerr-Sulphurets Project

consists of two distinct deposits which have been modeled separately by Placer Dome (CLA) Limited ("Placer Dome"). At the two deposits, Placer Dome has estimated a total indicated gold resource of 2.1 million ounces, with an additional 1.3 million ounces of gold in the inferred resource category.

The Kerr deposit was modeled by Placer Dome as a copper-gold porphyry system with total measured, indicated and inferred resources estimated at 140.8 million tonnes grading 0.75% copper (2.3 billion pounds of copper) and 0.36 grams of gold (1.6 million ounces of gold) per tonne at a 0.40% copper grade cut-off. Of this resource, Placer Dome has classified 74.0 million tonnes grading 0.34 grams of gold per tonne and 0.74% copper as drill-indicated.

The Kerr deposit is a pyrite-rich copper-gold system that has been developed in strongly altered and deformed monzonitic intrusions in Stuhini Group sedimentary and volcaniclastic rocks. Alteration and mineralization are characterized primarily by variable amounts of sericite, chlorite, quartz, anhydrite, pyrite and chalcopyrite. The most important mineralization type is quartz stock work with associated pyrite, chalcopyrite, bornite, tetrahedrite and rare enargite. The strongest copper-gold mineralization is associated with a core of chlorite-bearing alteration and quartz stock work. Strong phyllic alteration with quartz and disseminated pyrite flanks the core zone (Seabridge website, 2002).

Other developments in 2002 in the Stewart Camp included reports that Teck drilled an Eskay Creek type target south of the Red Mountain deposit and the Cambria Icefield, on the Newmont Plateau. Results are unknown.

In the fall of 2002 Teuton Resource Corp recently announced a new discovery on its Del Norte Property, located approximately 9 km south of the Poly Property. The mineralization is reported to be located near a volcanic-sedimentary contact, and is hosted by sediments of the lower member of the Salmon River Formation (Teuton website, October, 2002). The zone was found via the follow-up of float samples mineralized with galena and sphalerite. Assays from the first chip samples taken from various locations within the zone are reported to have returned values ranging from 0.125 to 3.412 oz/ton gold and 2.95 to 155.73 oz/ton silver.

On October 18, 2002, the company reported the following results from the first drill hole, DDH#2002-1:

Interval (meters)	Width (meters)	Gold oz/ton)	Silver (oz/ton)	Gold Equiv. * (oz/ton)
11.9-43.0	31.1	0.104	5.61	0.185
including				
36.0-43.0	7.0	0.133	15.96	0.361
42.0-43.0	1.0	0.324	45.66	0.989

*Based on 70-1 ratio between current gold and silver prices.

The assays are awaited from 3 additional holes drilled on the zone. The discovery has stimulated considerable staking activity, which has extended up to and beyond the Poly Property (Map 1).

Teuton also reports that Heritage Explorations has raised $1.2 million for the first phase of a $4 million program on its 117,000-acre land package surrounding the Eskay Creek mine (Teuton website, October 21/02). The work will evaluate Teuton's Bonsai and Treaty Creek properties, currently under option to Heritage Explorations. Heritage recently announced that 3-D modeling incorporating the Fractal Graphics technology has identified 9 targets with geological attributes similar to the Eskay Creek gold mine (Northern Miner, October 7, 2002). One of these targets is on land optioned from Teuton.

7. EXPLORATION HISTORY, GEOLOGY, MINERALIZATION: POLY PROPERTY AND ENTRANCE PEAK TARGET AREA:

7.A. EXPLORATION HISTORY:

The MINFILE occurrences in the Entrance Peak Project Area are shown in Figure 7, and the individual MINFILE descriptions are provided in the following pages. The mineral occurrences on and in the vicinity of the Poly Claims include molybdenum associated with the Entrance Peak quartz monzonite intrusion; gold, silver and zinc mineralization on historical claims west of the Highway Creek Zone Showing e.g., the Ptarmigan Zone; and, narrow quartz veins mineralized with sphalerite and galena, which were investigated with open cuts and adits by Bear Pass Mining. The Ptarmigan Zone may be the old Montreal 1-8 Showing (Minfile 104A-026; see attached), where short tunnels investigated mineralized breccia and veins and open cuts at various elevations.

The MINFILE occurrences do not appear to reference the Highway Zone Creek Showing, which was apparently first discovered in 1991 via the reconnaissance evaluation of color anomalies and structural fabric in the vicinity of intrusive rocks. Talus blocks originating from shear zones in creek valleys on the south facing mountain valley side returned up to 56.85 g Au/t, 520 g Ag/t, and 15.2% Zn (Map 3; Kennedy, 1992). The mineralized zone of interest was located in situ, about 900 m to the north of the old Hwy 37A.

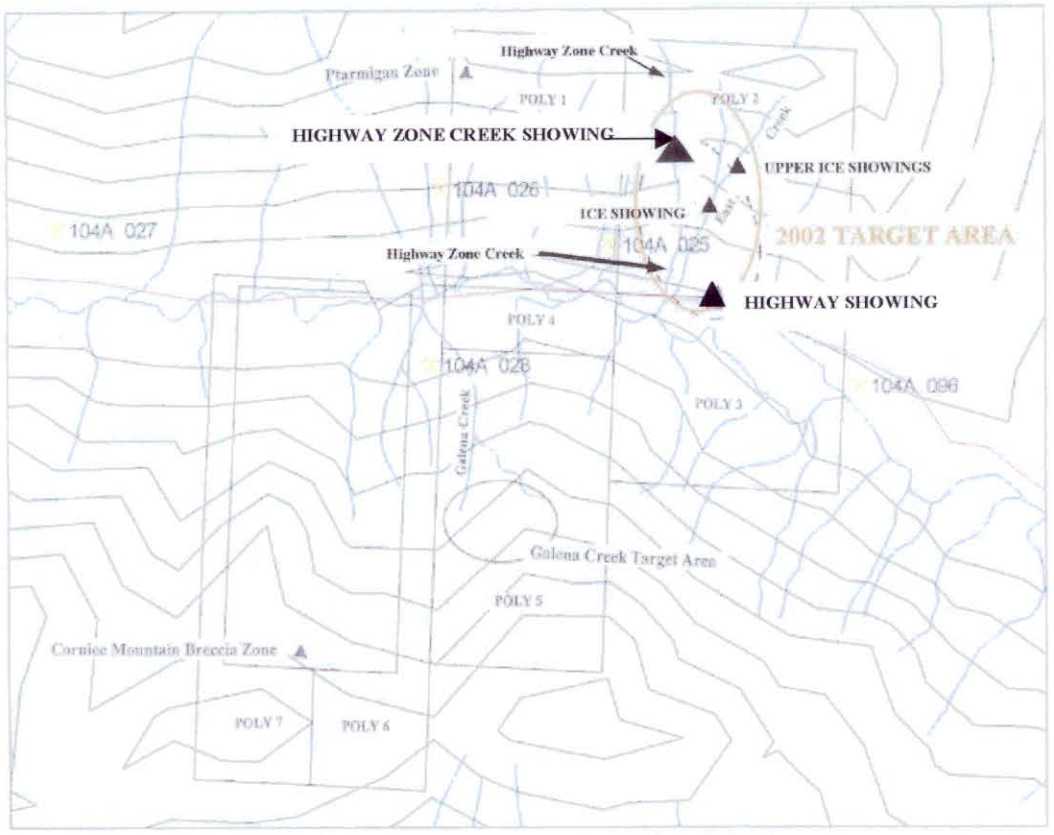
In 1992, the Highway Zone Creek Showing was explored with geological and geochemical surveys funded by Cameco Corp. (Map 3; Kennedy, 1992). Quartz-ankerite veins and stock works mineralized with galena and sphalerite returned up to 9.85 g Au/t, 1163 g Ag/ t, 0.33% Cu, 0.54% Pb and 0.33% Zn across a 3 m width in chip samples. Selective sampling over a 15 cm width of a sulfide rich section of a quartz vein returned 123.3 g Au/t; 1897 g Ag/t; 0.85% Cu, 5.79% Pb and 0.47% Zn. Sediment sampling revealed rather anomalous gold and arsenic values in both creeks as shown on Map 3. The planned drill program was not carried out because of an inadequate land package.

Other Entrance Peak area historical exploration targets are shown on Map 4. They include the Cornice Mountain Breccia Zone, where chip sampling returned 6.78 g Au/t and 2.24% Zn across 14.5 m; and, 11.1 g Au/t over 6 m on another sample line (Kennedy, 1992). Drill testing by Cameco in 1993 failed to intersect significant mineralization and it was concluded the sulfide target was associated with a dip slope (Kennedy, 1993).

Float boulders and in situ quartz-carbonate veins found in the Galena Creek target area (Map 4) were mineralized with sphalerite, galena and chalcopyrite. The generally narrow veins have yielded assays up to 7.88 g Au/t, 54.1 g Ag/t; 0.49% Cu, 1.65% Pb and 10.6% Zn (Kennedy, 1992). The importance of the target was confirmed by the 1999 program stream sediment sample 160226 (Molloy, 1999) which returned interesting As, Au, Ag, Cu, Pb and Zn values.

B.C. Ministry of Energy and Mines

(Modified by Geofine, 2002)



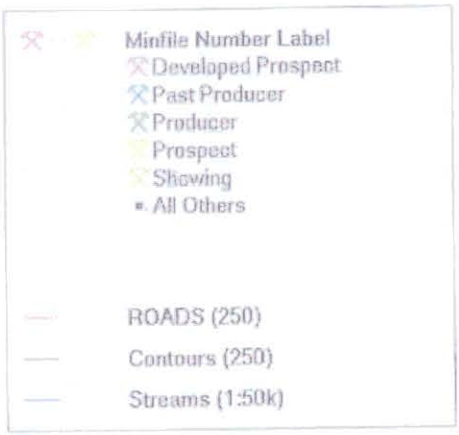


FIGURE 7

POLY PROPERTY SHOWINGS, AREA MINFILES SHOWINGS

MINFILE 104A 025:

MINFILE NUMBER: 104A 025 NATIONAL MINERAL INVENTORY: 104A4 Mo1

NAME(S): FITZGERALD

STATUS: Showing MINING DIVISION: Skeena
REGIONS: British Columbia
NTS MAP: 104A04E UTM ZONE: 09 (NAD 27)
LATITUDE: 56 06 33 N NORTHING: 6218140
LONGITUDE: 129 33 08 W EASTING: 465650
ELEVATION: 457 Metres
LOCATION ACCURACY: Within 1 KM
COMMENTS: Approximate centre of the Strohn Creek pluton (Bulletin 63).

COMMODITIES: Molybdenum

MINERALS
SIGNIFICANT: Molybdenite
ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT
CHARACTER: Vein Stockwork
CLASSIFICATION: Hydrothermal Epigenetic Porphyry
TYPE: L05 Porphyry Mo (Low F- type)

HOST ROCK
DOMINANT HOST ROCK: Plutonic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Middle Jurassic Tertiary	Hazelton	Salmon River	Coast Plutonic Complex

LITHOLOGY: Porphyritic Quartz Monzonite
Sediment/Sedimentary

HOST ROCK COMMENTS: The Strohn Creek pluton is a satellite pluton that lies east of the Coast Plutonic Complex.

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1917
SAMPLE TYPE: Bulk Sample

COMMODITY	GRADE
Molybdenum	6.0000 Per cent

COMMENTS: A sample, weighing several hundred kilograms (200 assumed), averaged 6 per cent molybdenite.
REFERENCE: Minister of Mines Annual Report ,1917, page 68.

CAPSULE GEOLOGY

The exact location of the Fitzgerald showing is not known. The property is described as being about 9.7 kilometres east of the Bear River divide (Minister of Mines Annual Report, 1917).

Three claims were located over the showing by the Fitzgerald brothers in 1917.

The area is underlain by the porphyritic Tertiary(?) Strohn Creek pluton (Bulletin 63), which intrudes Hazelton Group sediments of the Middle Jurassic Salmon River Formation. The Strohn Creek pluton is a massive, coarse-grained quartz monzonite that contains large phenocrysts of potash feldspar, minor biotite, lesser hornblende and accessory apatite, zircon and magnetite. Mineralization in the pluton consists of molybdenite, typically associated with quartz, along joint surfaces and fractures (Bulletin 63, p. 80).

The Fitzgerald showing consists of a 1 to 2-metre wide quartz vein, in the quartz monzonite, that contains molybdenite (Minister of Mines Annual Report, 1917, p. 68). A sample, weighing several hundred kilograms, was reported to average about 6 per cent molybdenite (Minister of Mines Annual Report, 1917, p. 68).

BIBLIOGRAPHY

EMPR AR *1917-68; 1921-72
EMPR BULL 9, p. 91; 63
EMPR MAP 8
GSC MAP 307A; 315A; 9-1957; 1418A

BIBLIOGRAPHY

GSC OP 2582

DATE CODED: 850724
DATE REVISED: 911021

CODED BY: GSB
REVISED BY: WC

FIELD CHECK: N
FIELD CHECK: N

MINFILE 104A 026:

MINFILE NUMBER: 104A 026 NATIONAL MINERAL INVENTORY: 104A4 Ag14

NAME(S): MONTREAL 1-8, MURDOCK (L. 3440-3446), DOUVILLE

STATUS: Showing MINING DIVISION: Skeena
REGIONS: British Columbia
NTS MAP: 104A04E UTM ZONE: 09 (NAD 27)
LATITUDE: 56 06 45 N NORTHING: 6218550
LONGITUDE: 129 34 35 W EASTING: 464150
ELEVATION: 762 Metres
LOCATION ACCURACY: Within 1 KM
COMMENTS: The location given lies immediately east of the Murdock (104A 128) claim group (L. 3440-3446) (Minister of Mines Annual Report, 1928).

COMMODITIES: Silver Zinc Lead

MINERALS
SIGNIFICANT: Sphalerite Galena Pyrite
COMMENTS: Trace gold.
ALTERATION: Silica
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

DEPOSIT
CHARACTER: Shear Disseminated
CLASSIFICATION: Replacement
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
COMMENTS: North-striking, west-dipping zone in greenstone.

HOST ROCK
DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Triassic-Jurassic	Hazelton	Unuk River	
Middle Jurassic	Hazelton	Salmon River	

LITHOLOGY: Greenstone
Volcanic Breccia

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1928
SAMPLE TYPE: Grab

COMMODITY	GRADE	
Silver	68.6000	Grams per tonne

COMMENTS: Sample from silicified zone in greenstone. Trace gold.
REFERENCE: Minister of Mines Annual Report, 1928, page 111.

CAPSULE GEOLOGY

The location of the Montreal showings is not known exactly. Several showings are reported on the Montreal 1-8 claims, which are reported to lie immediately east of the Murdock claims (Minister of Mines Annual Report 1925, p. 94). The claims are assumed to have been staked on the north side of Strohn Creek, about 4.5 kilometres east of the Bear River Pass.

The claims were located in 1925 by Douville and others. Four veins, 1.8 to 7.6 metres wide, were reported that year. During 1925-29, the owners emplaced several opencuts and at least 2 tunnels.

The area is underlain by north-striking Hazelton Group rocks. The Upper Triassic to Lower Jurassic Unuk River Formation is unconformably overlain to the east by the Middle Jurassic Salmon River Formation (Bulletin 63). The Salmon River Formation rocks are intruded by an Eocene(?) stock of quartz monzonite to the east of the showings. Several showings have been reported on the Montreal claims.

At about 594 metres elevation (immediately below the old camp) several opencuts expose disseminations and stringers of galena and sphalerite in volcanic breccia. A chip sample assayed trace gold, 13.7 grams per tonne silver, nil lead and 1.5 per cent zinc across 4.6 metres (Minister of Mines Annual Report 1928, p. 111).

At about 617 metres elevation, argentiferous galena occurs in a shear zone in a 6-metre long tunnel.

At 640 metres elevation, a silicified zone in greenstone carries minor pyrite, sphalerite and rare galena stringers. The zone strikes north, dips west and is up to 10 metres wide. A grab sample from a

CAPSULE GEOLOGY

tunnel, 13.7 metres long, assayed 68.6 grams per tonne silver and trace gold (Minister of Mines Annual Report 1928, p. 111).

At 732 metres elevation, a 6-metre wide pyritic silicified zone is exposed in a creek.

Float samples of highly leached material, containing quartz and galena, assayed 0.7 grams per tonne gold, 1,542.9 grams per tonne silver and 43 per cent lead (Minister of Mines Annual Report 1928, p. 111).

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EMPR AR 1925-94; 1926-95; *1928-111; 1929-102
EMPR BULL 63
EMPR MAP 8
EMPR ASS RPT 20200
GSC MEM 175, p. 132
GSC MAP 307A; *315A; 9-1957; 1418A
GSC OF 2582

DATE CODED: 850724 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 911021 REVISED BY: WC FIELD CHECK: N

MINFILE 104A 027:

MINFILE NUMBER: 104A 027 NATIONAL MINERAL INVENTORY: 104A4 Cu5

NAME(S): SOUTHERN CROSS

STATUS: Showing MINING DIVISION: Skeena
REGIONS: British Columbia
NTS MAP: 104A04E UTM ZONE: 09 (NAD 27)
LATITUDE: 56 06 30 N NORTHING: 6218100
LONGITUDE: 129 37 46 W EASTING: 460850
ELEVATION: 762 Metres
LOCATION ACCURACY: Within 5 KM
COMMENTS: Exact location unknown; the Southern Cross claim group is reported to be on the east side of the Bear River glacier (now Strohn Lake?) at 762 metres elevation (Minister of Mines Annual Report 1929, p. 102).

COMMODITIES:	Copper	Gold	Silver	Zinc	Lead
MINERALS SIGNIFICANT:	Chalcopyrite Pyrite	Tetrahedrite	Sphalerite	Silver	Galena
ASSOCIATED:	Quartz	Hematite	Magnetite		
MINERALIZATION AGE:	Unknown				

DEPOSIT
CHARACTER: Vein
CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK
DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Triassic-Jurassic	Hazelton	Unuk River	

LITHOLOGY: Volcanic
Tuff
Breccia
Argillite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1972
SAMPLE TYPE: Grab

COMMODITY	GRADE	
Gold	1.1000	Grams per tonne
Copper	0.6200	Per cent

COMMENTS: This sample, collected just east of the Bear River Pass, about 30 metres from the highway, may have been from this showing.
REFERENCE: Assessment Report 6303.

CAPSULE GEOLOGY

The exact location of the Southern Cross showing is not known. The Southern Cross claims are reported to lie on the east side of the Bear River glacier. The former position of the glacier in the Bear River valley is now occupied by Strohn Lake.

Morris and Lake carried out stripping and open cutting on the Southern Cross claims during 1929-30. In 1972, Keith Copper Mines Ltd. conducted a geophysical survey on the nearby Nina claims.

The area is underlain by Hazelton Group volcanics of the Upper Triassic to Lower Jurassic Unuk River Formation. These rocks strike east-southeast and dip north (Bulletin 63).

Several showings have been reported on the claims. One of the showings comprises quartz veinlets carrying chalcopyrite, tetrahedrite and minor sphalerite and native silver(?). These occur across a width of 6 metres in tuffs, breccias and argillites (Minister of Mines Annual Report, 1930).

Elsewhere on the claims, 4 parallel veins contain hematite, magnetite, pyrite and some galena along small fractures (Minister of Mines Annual Report, 1930).

A rock sample collected just east of the Bear River Pass, about 30 metres from the highway, may have been from the Southern Cross showing. The sample assayed 0.62 per cent copper and 1.1 grams per tonne gold (Assessment Report 6303).

BIBLIOGRAPHY

EMPR AR 1929-102; *1930-108

MINFILE NUMBER: 104A 027 NATIONAL MINERAL INVENTORY: 104A4 Cu5

NAME(S): SOUTHERN CROSS

STATUS: Showing
REGIONS: British Columbia
NTS MAP: 104A04E
LATITUDE: 56 06 30 N
LONGITUDE: 129 37 46 W
ELEVATION: 762 Metres
LOCATION ACCURACY: Within 5 KM
COMMENTS: Exact location unknown; the Southern Cross claim group is reported to be on the east side of the Bear River glacier (now Strohn Lake?) at 762 metres elevation (Minister of Mines Annual Report 1929, p. 102).

MINING DIVISION: Skeena
UTM ZONE: 09 (NAD 27)
NORTHING: 6218100
EASTING: 460850

COMMODITIES:	Copper	Gold	Silver	Zinc	Lead
MINERALS SIGNIFICANT:	Chalcopyrite Pyrite	Tetrahedrite	Sphalerite	Silver	Galena
ASSOCIATED:	Quartz	Hematite	Magnetite		
MINERALIZATION AGE:	Unknown				

DEPOSIT
CHARACTER: Vein
CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK
DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Triassic-Jurassic	Hazelton	Unuk River	

LITHOLOGY: Volcanic
Tuff
Breccia
Argillite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1972
SAMPLE TYPE: Grab

COMMODITY	GRADE	
Gold	1.1000	Grams per tonne
Copper	0.6200	Per cent

COMMENTS: This sample, collected just east of the Bear River Pass, about 30 metres from the highway, may have been from this showing.
REFERENCE: Assessment Report 6303.

CAPSULE GEOLOGY

The exact location of the Southern Cross showing is not known. The Southern Cross claims are reported to lie on the east side of the Bear River glacier. The former position of the glacier in the Bear River valley is now occupied by Strohn Lake.

Morris and Lake carried out stripping and open cutting on the Southern Cross claims during 1929-30. In 1972, Keith Copper Mines Ltd. conducted a geophysical survey on the nearby Nina claims.

The area is underlain by Hazelton Group volcanics of the Upper Triassic to Lower Jurassic Unuk River Formation. These rocks strike east-southeast and dip north (Bulletin 63).

Several showings have been reported on the claims. One of the showings comprises quartz veinlets carrying chalcopyrite, tetrahedrite and minor sphalerite and native silver(?). These occur across a width of 6 metres in tuffs, breccias and argillites (Minister of Mines Annual Report, 1930).

Elsewhere on the claims, 4 parallel veins contain hematite, magnetite, pyrite and some galena along small fractures (Minister of Mines Annual Report, 1930).

A rock sample collected just east of the Bear River Pass, about 30 metres from the highway, may have been from the Southern Cross showing. The sample assayed 0.62 per cent copper and 1.1 grams per tonne gold (Assessment Report 6303).

BIBLIOGRAPHY

EMPR AR 1929-102; *1930-108

BIBLIOGRAPHY

EMPR BULL 63
EMPR MAP 8
GSC MEM 175, p. 147
GSC MAP 307A; *315A; 9-1957; 1418A
GSC OP 2582

DATE CODED: 850724 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 911021 REVISED BY: WC FIELD CHECK: N

MINFILE 104A 028:

MINFILE NUMBER: 104A 028 NATIONAL MINERAL INVENTORY: 104A4 Ag15

NAME(S): BEAR PASS MINING

STATUS: Showing MINING DIVISION: Skeena
REGIONS: British Columbia
NTS MAP: 104A04E UTM ZONE: 09 (NAD 27)
LATITUDE: 56 06 00 N NORTHING: 6217140
LONGITUDE: 129 34 36 W EASTING: 464120
ELEVATION: 457 Metres
LOCATION ACCURACY: Within 5 KM
COMMENTS: South side of Strohn Creek, about 4.8 kilometres east of the Bear River Pass (Minister of Mines Annual Report, 1928).

COMMODITIES: Silver Lead Zinc Gold

MINERALS
SIGNIFICANT: Sphalerite Galena Pyrite
ASSOCIATED: Quartz
ALTERATION: Silica
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

DEPOSIT
CHARACTER: Unknown
CLASSIFICATION: Unknown
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
COMMENTS: One mineralized zone trends north.

HOST ROCK
DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Triassic-Jurassic	Hazelton	Unuk River	

LITHOLOGY: Greenstone
Andesite
Feldspar Porphyry

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

INVENTORY

ORE ZONE: MAIN REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1928
SAMPLE TYPE: Chip

COMMODITY	GRADE
Silver	82.3000 Grams per tonne

COMMENTS: Across 2.4 metres. Trace gold.
REFERENCE: Minister of Mines Annual Report, 1928, page 111.

CAPSULE GEOLOGY

The exact location of the Bear Pass Mining showing is not known. The showing is reported to lie at an elevation of 457 metres on the south side of Strohn Creek, about 4.8 kilometres east of the Bear River Pass.

The Bear Pass Mining Syndicate held the property in 1928. Exploration work consisted of open cutting and 2 short adits.

The area is underlain by north(?)-striking, steeply dipping andesites(?) of the Upper Triassic to Lower Jurassic Unuk River Formation (Hazelton Group) (Bulletin 63). Small stocks of feldspar porphyry intrude the volcanics.

Several silicified zones, carrying quartz stringers and minor pyrite, sphalerite and galena, occur in greenstone. A chip sample from the 7.6 metres wide, north-trending main zone assayed trace gold and 82.3 grams per tonne silver across 2.4 metres (Minister of Mines Annual Report, 1928).

BIBLIOGRAPHY

EMPR AR *1928-111
EMPR BULL 63
EMPR MAP 8
GSC MEM 175, p. 107
GSC MAP 307A; *315A; 9-1957; 1418A
GSC OF 2582

DATE CODED: 850724 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 911016 REVISED BY: WC FIELD CHECK: N

MINFILE 104A 096:

MINFILE NUMBER: 104A 096 NATIONAL MINERAL INVENTORY:

NAME(S): STEWART

STATUS: Showing MINING DIVISION: Skeena
REGIONS: British Columbia
NTS MAP: 104A04E UTM ZONE: 09 (NAD 27)
LATITUDE: 56 06 00 N NORTHING: 6217115
LONGITUDE: 129 31 00 W EASTING: 467858
ELEVATION: 330 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Pegmatitic phase in a small pluton on the Stewart highway (Geological Survey of Canada Paper 79-1A).

COMMODITIES: Uranium Thorium

MINERALS
SIGNIFICANT: Uraninite Cyrtolite
ASSOCIATED: Pyrite Quartz Feldspar Muscovite Biotite
MINERALIZATION AGE: Unknown

DEPOSIT
CHARACTER: Disseminated
CLASSIFICATION: Pegmatite
TYPE: 002 Rare element pegmatite - NYF family

HOST ROCK
DOMINANT HOST ROCK: Plutonic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Tertiary			Coast Plutonic Complex

LITHOLOGY: Quartz Feldspar Biotite Pegmatite
Porphyritic Quartz Monzonite

HOST ROCK COMMENTS: The host is a pegmatitic phase of the Tertiary(?) Strohn Creek pluton, a satellite pluton of the Coast Plutonic Complex.

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1979
SAMPLE TYPE: Grab

COMMODITY	GRADE	
Thorium	0.0200	Per cent
Uranium	0.0988	Per cent

REFERENCE: Geological Survey of Canada Paper 79-1A, page 398.

CAPSULE GEOLOGY

The Stewart uranium-thorium occurrence lies about 33 kilometres northeast of Stewart, about 7.5 kilometres east of the Bear River Pass and along the Stewart highway (37A).

The area has been explored since about 1917, when an adjacent area was staked over the Fitzgerald molybdenum showing (104A 025). The occurrence was discovered in 1978 during a car-borne scintillometer survey along the highway.

The Tertiary(?) Strohn Creek porphyritic quartz monzonite pluton cuts Jurassic Hazelton Group sediments. The pluton contains radioactive coarse quartz-feldspar muscovite-biotite pegmatitic phases containing pyrite, uraninite and cyrtolite.

A selected sample assayed 0.0988 per cent uranium and 0.02 per cent thorium (Geological Survey of Canada Paper 79-1A).

BIBLIOGRAPHY

EMPR MAP 8
EMPR OF 1990-32, p. 27
GSC OF 551
GSC P 79-1A, pp. 397-399
GSC MAP 307A; 315A; 9-1957; 1418A
GSC OF 2582

DATE CODED: 870901 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 920129 REVISED BY: WC FIELD CHECK: N

MINFILE 104A 128:

MINFILE NUMBER: 104A 128 NATIONAL MINERAL INVENTORY: 104A4 Ag14

NAME(S): MURDOCK (L. 3440-3446), HUGH 9-10, HUGH 4

STATUS: Showing
REGIONS: British Columbia
NTS MAP: 104A04E
LATITUDE: 56 06 53 N
LONGITUDE: 129 35 32 W
ELEVATION: 1219 Metres
LOCATION ACCURACY: Within 1 KM
COMMENTS: Approximate centre of Murdock claims (L. 3440-3446) (Mineral Titles Reference Map 104A/4E).

MINING DIVISION: Skeena
UTM ZONE: 09 (NAD 27)
NORTHING: 6218800
EASTING: 463180

COMMODITIES: Lead

MINERALS
SIGNIFICANT: Galena
MINERALIZATION AGE: Unknown

DEPOSIT
CHARACTER: Unknown
CLASSIFICATION: Unknown
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK
DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Triassic-Jurassic	Hazelton	Unuk River	

LITHOLOGY: Volcanic

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane
TERRANE: Stikine
PHYSIOGRAPHIC AREA: Boundary Ranges

CAPSULE GEOLOGY

The Murdock showing is located on the Murdock claims (L. 3440 to 3446 inclusive), on the north side of Strohn Creek about 3 kilometres east of the Bear River Pass.

The Murdock claims were staked in 1921 by McHugo and Douville. Work was reported on the claims during 1923-25. No further activity has been reported.

The area is underlain by Hazelton Group volcanics of the Upper Triassic to Lower Jurassic Unuk River Formation (Bulletin 63). The volcanics strike north to northeast and dip to the west.

An occurrence of galena is reported on the claims (Minister of Mines Annual Report, 1923, 1925). No details on the mineralization are available.

BIBLIOGRAPHY

EMPR ASS RPT 22040
EMPR AR 1923-75; *1925-94
EMPR BULL 63
EMPR MAP 8
GSC MAP 307A; 315A; 9-1957; 1418A
GSC OF 2582

DATE CODED: 911021 CODED BY: WC FIELD CHECK: N
DATE REVISED: 920217 REVISED BY: WC FIELD CHECK: N

As described in the Report on the 1999 Prospectors Assistance Program (Molloy, 1999), the Highway Showing (or Highway 37A Zone Showing; Figure 7) was discovered during a regional geochemical survey. The showing comprises an area of oxidized soil and altered (oxidized, silicified, sulfidized, sericitized) angular float boulders and large blocks, located in tag alders between the old Hwy 37A and the new Hwy 37A. It had an apparent north-northwest trend and a width of up to over 50 m. The Poly 1-4 Claims (Map 1) were staked in August 1999 to cover the Highway Showing, the Highway Zone Creek Showing and the favourable geological environment north of Entrance Peak.

In 1999, a small grid was established on the Highway Showing and initial prospecting, and geological and geochemical surveys carried out. The soil samples returned rather anomalous Au, Cu, Pb, Zn and As values, along with anomalous Ag, Cd, Mo, Ni, Co contents; and, some anomalous Sb, Hg and Ba values. Thirteen of the 15 composite sub crop samples of altered crystal tuff breccia had weakly anomalous gold contents ranging up to 70 ppb. All the rock samples had strongly anomalous copper contents, averaging 198 ppm. They also had weakly anomalous Ag contents, and some anomalous Mo and Sb contents, ranging up to 23 ppm and 10 ppm, respectively.

In 2000, two Prospectors Assistance Programs were carried out on separate areas of the property (Molloy, 2001; Kennedy, 2000). The geochemical signature of the Highway Showing was traced via prospecting and reconnaissance geochemical rock float and soil sampling for an additional 200 m to the southeast to beyond the power line corridor above Strohn Creek Valley. The signature has an east-west component north of the new Hwy 37A of up to over 350 m that remains open for delineation. It has also been traced an additional 500 m to the east-southeast, to beyond the avalanche station at Windy Point. The target area was defined by multi element signature threshold criteria (MESTC) established by Geofine's regional work in the Stewart Camp:

2000 POLYMETALLIC GEOCHEMICAL ANOMALIES:
A. SOIL ANOMALIES:

- Soil Cu regional threshold value of 45 ppm: 132 of the 137 soil samples collected, have anomalous Cu values ranging between 45 and 317 ppm and averaging 148 ppm; this is one of the largest and apparently most consistent Cu anomalies Geofine has encountered basis on exploration activities carried out in Stewart Camp;

- Soil Au regional threshold value of 10 ppb: 97 of 106 soil samples have anomalous Au values ranging between 10 and 390 ppb, and averaging 43 ppb; another 28 samples analyzed with a detection limit of 30 ppb have Au values of "<30 ppb": it is suspected, as has happened on other properties, that many of these <30 ppb values will yield anomalous Au values when re-analyzed with a detection limit of 5 ppb);

- Soil As regional threshold value of 24 ppm: 121 of 137 soil samples have anomalous As values ranging between 24 and 150 ppm and averaging 71 ppm; the As anomaly along

with the correlating Au and Cu anomalies are excellent confirmation of the target rationale;

- Soil Zn regional threshold value of 130 ppm: 120 of the 137 soil samples have anomalous Zn values ranging between 130 and 358 ppm and averaging 217 ppm;

- Soil Pb regional threshold value of 15 ppm: 107 of the 137 soil samples have anomalous Pb values ranging between 15 and 144 ppm and averaging 30 ppm; as noted above, the Zn and Pb anomalies are considered very important attributes of the target rationale.

The analytical results for the 2000 rock samples are also indicative of the of the polymetallic target:

2000 POLYMETALLIC GEOCHEMICAL ANOMALIES:
B. ROCK ANOMALIES:

- Rock Cu Anomalies: Of the 50 samples of sub crop and float rock, and one sample of bedrock, 48 of the them have anomalous Cu contents ranging between 74 and 14200 ppm. Excluding the latter value, the 47 samples average 205 ppm Cu.

- Rock Au Anomalies: Of the 50 samples of sub crop and rock float, and one sample of bedrock, 27 have anomalous Au contents ranging between 10 and 33220 ppb. Excluding the 2 highest values (33220 and 9930 ppb) the remaining 25 samples have average gold contents of 63 ppb.

- Rock As, Zn, Pb Anomalies: Of the 50 samples of sub crop and float rock, and one sample of bedrock, 6 samples have anomalous As contents ranging between 40 and >10,000 ppm; 18 have anomalous Pb contents ranging between 16 and 4570 ppm; and 19 samples have anomalous Zn contents ranging between 136 and 11900 ppm.

The analytical results of the 2000 stream sediment samples are readily definitive of the Highway Showing target area:

2000 THE POLYMETALLIC GEOCHEMICAL ANOMALIES:
D. STREAM SEDIMENT ANOMALIES:

- Sediment Cu Anomalies: all of the 8 sediment samples have anomalous Cu values ranging between 66 and 151 ppm;

- Sediment Au Anomalies: 7 of the 8 sediment samples have anomalous Au values ranging between 10 and 151 ppb;

- Sediment As Anomalies: all of the 8 sediment samples have anomalous As values ranging between 24 and 246 ppm;

- Sediment Zn Anomalies: all of the 8 sediment samples have anomalous Zn values ranging between 162 to 3190 ppm;

- Sediment Pb Anomalies: 7 of the 8 sediment samples have anomalous Pb values ranging between 18 and 48 ppm.

The extension of the favourable environment into a mainly overburdened covered area, as indicated by polymetallic geochemical anomalies in soil, sub crop, and sediment samples, had apparently never been investigated historically. The signature was deemed to provide further evidence of an important exploration target, none of which has ever been subjected to historical geophysical surveys or diamond drill testing. An indication of the significance of the target was provided by the analytical results from an angular, massive sulfide boulder found in 2000, about 50 m north old Hwy 37A: the sample returned 33.2 g Au/t, 5894.9 g Ag/t, 1.42% Cu, 0.46% Pb and 1.19% Zn.

7.B. GEOLOGY:

As indicated in Figures 5 and 8, the Lower Jurassic Unuk River Formation of the Hazelton Group underlies most of the Entrance Peak Project Area. The formation comprises predominantly sub-aerial volcanics of intermediate composition. Pyroclastic rocks, including lithic and crystal tuff, lapilli tuff, agglomerate and volcanic breccia, are common. The geology also includes feldspar porphyry flows.

The volcanic pile has been intruded by hypabyssal intrusions, some of which are of similar age, and consist of feldspar porphyry and rhyolite domes. The intrusions are found at Cornice Peak and Yvonne Peak (Map 4) and are believed to represent volcanic centres. The rhyolitic domes, dykes and welded tuffs are believed to represent late stage acidic volcanism in the evolving island arc.

To the west, Mount Strohn (Map 4) is composed of shales and argillites unconformably overlaying the volcanic rocks of the Unuk and Betty Creek Formations. The eastern part of the project area is composed mainly of the Salmon River Formation: argillite, with minor sandstone, limestone and shale. A large Eocene stock, herein "the Entrance Peak quartz monzonite pluton", has intruded Salmon River Formation on the east side of the Poly Property (Figure 8).

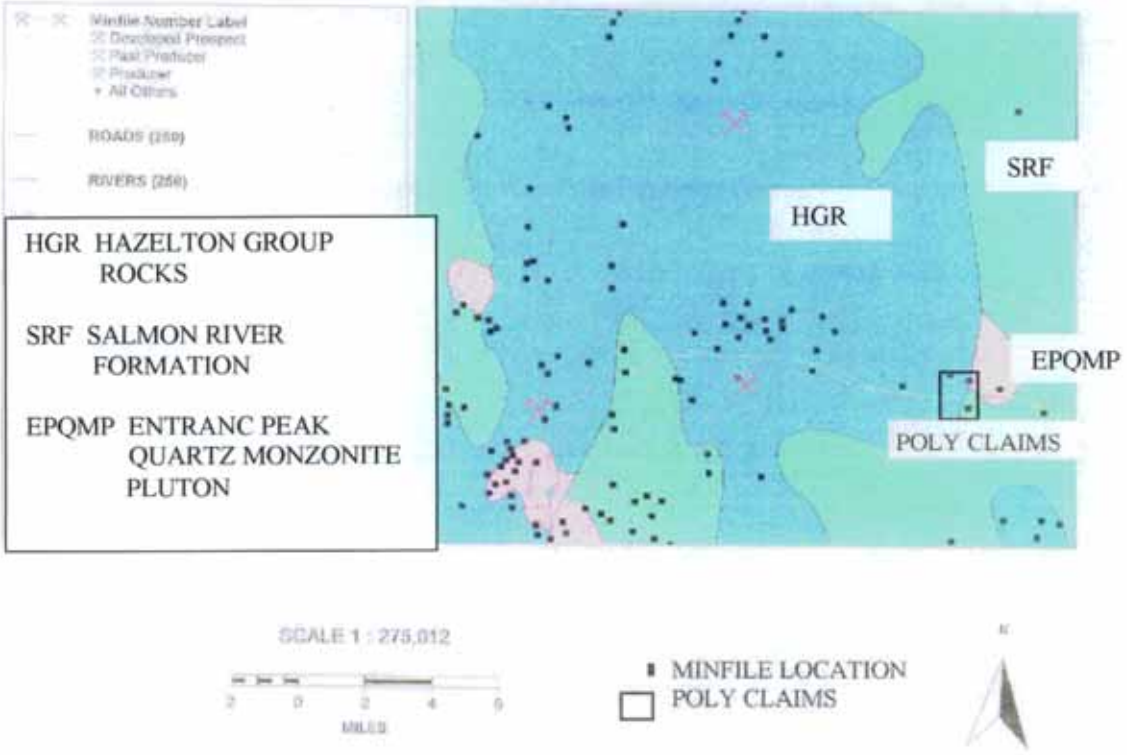
7.C. MINERALIZATION:

The Highway Zone Creek Showing is associated with a north-northwest trending, east dipping structure exposed in the upper reaches of Highway Zone Creek (Map 2). The structure is up to 10 m wide and hosts boudined quartz-carbonate veins from 0.15 to 1 m

B.C. Ministry of Energy and Mines

FIGURE 8:

GEOLOGY, MINFILE LOCATIONS, POLY PROPERTY



http://webmap.ei.gov.bc.ca/minpot/map/pdac.MWF

in width. The veins are mineralized with disseminations and stringers of pyrite, pyrrhotite, arsenopyrite, galena, sphalerite, chalcopyrite, and tetrahedrite. Associated minerals include ankerite, potassium feldspar, chlorite, sericite and fuchsite. The veins are hosted by pyritized and silicified, green crystal tuff breccia and black argillite, with the structure postulated to be located near their contact (Kennedy, 1992). Fuchsite, epidote and chlorite halo the veins.

The Highway Zone Creek Showing was initially traced over a 130 m strike length in Highway Zone Creek (formerly Boundary Creek, Map 3; Kennedy, 1992), at an elevation of 975 m, and to about 1 km north of north of Hwy 37A. The zone remains open to the north and south, where it disappears under talus. As shown on Map 3, sample 39575 taken from a narrow, pyritized quartz vein located in East Creek (formerly East Boundary Creek), about 400 m east of the Highway Zone Creek Showing, contained 1.5 g Au/t, 6.2 g Ag/t, 121 ppm Cu, 508 ppm Pb and 708 ppm Zn.

This sample, when referenced with specific stream sediment geochemistry, particularly arsenic i.e., one of the main signatures of the mineralization, suggests a large target area, which remains open in all directions. For example, the most northeasterly stream sample, 39570, taken on the main branch of East Creek about 450 m east of the Highway Zone Creek Showing (Map 3), contained 58 ppb Au, 8.5 g Ag/t, 202 ppm Cu, 302 ppm Zn and 183 ppm As. Moreover, the most northerly stream sediment sample, 39537, taken on Highway Zone Creek (Map 3) contained 70 ppb Au, 148 ppm Cu and 288 ppm As.

The historical Ptarmigan Zone is located near the northwestern boundary of the Poly 1 Claim (Map 4). Epithermal style quartz-carbonate veins mineralized with galena, minor chalcopyrite, sphalerite and pyrite are associated with hypabyssal intrusions (Kennedy, 1992). The most prominent intrusion is a pyritized rhyolite that forms a prominent jarosite/alunite stained gossan. Other intrusion types include hornblende porphyry and feldspar porphyry, and the main host rocks for all the types is crystal tuff and agglomerate.

The aforementioned veins occur in the pyroclastic rocks, proximal to the intrusions. Selected grab samples have yielded up to 69 g Au/t, 873 g Ag/t, 9.70% Pb and 9.72% Zn. However, initial chip samples failed to return significant values. As indicated in Section 7.A. above, the Ptarmigan Zone may be the old Montreal 1-8 Showing, where mineralized breccia and veins were investigated by short tunnels and open cuts at various elevations. According to Minfile 104A-026, float samples, at 732 m elevation and of highly leached material containing quartz and galena, assayed 0.7 g Au/t, 1,542.9 g Ag/t and 43% Pb.

8. 2002 EXPLORATION ACTIVITIES ON THE POLY PROPERTY:

Geological, geochemical and geophysical surveys were carried out on the Poly Property in July and August 2002. The surveys focused on the main target area originally identified in 1991, i.e. north of Hwy 37A, generally in the Highway Zone Creek and East Creek area. The work attempted to classify the various mineralization types, which are found mainly in angular float boulders and in outcrops in the upper target area; to ascertain their relative importance; and, to identify the principal bedrock source areas, their extent and the controls of the high-grade polymetallic mineralization previously found on the property.

The field work included the installation of about 6.5 km of horizontally chained grid and control lines in the lower target area and control lines in the upper target area (Photo 1); and, the carrying out of stream sediment (28 samples), soil (162 samples) and rock (134 samples) geochemical surveys; quality assurance (insertion of 15 Canmet standards and the re-assay of 10 samples by a second lab); vegetation and geological surveys; and, a vertical field magnetic survey (4.7 km).

ALS Chemex in Vancouver analyzed the samples for gold (FA/AA) and for 34 additional elements (ICP). XRAL Analytical Services of Toronto was used for quality assurance (Table 3). The Chemex and XRAL Certificates of Analysis are included in Appendix A and B, respectively. The magnetic data was processed and interpreted by JVX Ltd. in Richmond Hill. The JVX report is included as Appendix C. The exploration expenditures, including GST, are summarized in Table 2:

TABLE 2: 2002 EXPLORATION EXPENDITURES ($ CDN)*

TYPE:	CLAIM NO. (WORK ALLOCATION):		AMOUNT:
	POLY 1	(70%)	
	POLY 2	(30%)	
a. mob-demob			**$5655.15**
b. vehicle, gas			**2217.42**
c. subsistence, accommodation			**3570.16**
d. Chemex, XRAL analytical charges			**7285.95**
e. salaries, insurance			**31725.51**
f. supplies			**1773.37**
g. shipping, courier, communication			**1995.17**
h. mag rental, processing			**939.24**
i. report writing/data entry/drafting/quality assurance			**8000.00**
j. copying, reproduction (est.)			**1000.00**
TOTALS			**$64161.97**

***includes GST, PST where applicable**

8.A. QUALITY ASSURANCE:

Check samples were included with each sequence of samples logged and packed in the field, in order to monitor the performance of ALS Chemex in Vancouver. Four types of standards were utilized: a commercial sand product that has proven to be generally barren of gold and silver, and has only minor base metal contents; and, three Canmet Standards (GTS-2, CH-3 and MA-2C), which are described in the Canmet documentation included in this section. As a further check on the Chemex work, ten Chemex pulps from samples analysed by Chemex were analysed at XRAL in Toronto.

The results of the quality assurance work are shown in Table 3. The Chemex analytical results from the standards for the multi element signature (MES: Au, Ag, Cd, Cu, Pb, Zn, As, Sb) that Geofine uses routinely for gold exploration in the Stewart Camp show very good correspondence with the values which Canmet has provided (Table 3, Part A). Some variations are noted: the Chemex results for the CH-3 material vary up to about 30% e.g., sample 683800CK, for which Chemex reported 1830 ppb Au relative to the Canmet CH-3 value of 1400 ppb. Also, sample 683974CK, a sand check sample, returned 8 ppb gold relative to the other sand checks that returned <5 ppb. The former variation may relate to inhomogeneity caused by the splitting of the of the bulk standard material. The latter variation may relate to minor contamination.

The results for the Chemex pulps from soil, sediment and rock samples analysed at both Chemex and XRAL are also shown in Table 3, Part B. Most of the ICP results from the two labs show very good correspondence. One significant variation is noted: sample 683943RF, for which Chemex reported 209 ppm Ag, relative to the XRAL value of 8.5 ppm. XRAL's investigation of that value returned 212 ppm, with the explanation that the original acid leach was not sufficiently strong to reflect the high silver content. XRAL's final results for silver values originally reported as >10 ppm show good correspondence with the Chemex values (Table 3).

Some major discrepancies with regard to the Chemex and XRAL gold assays are immediately apparent in Part B, Table 3 as shown in bold. The discrepancies include XRAL reporting 91 ppb gold where Chemex reported 9480 ppb (sample 683782RF); XRAL reporting 17 ppb where Chemex reported 7230 ppb (sample 683919RF); and XRAL reporting 7760 ppb where Chemex reported <5 ppb (sample 683943RF).

Both labs immediately initiated investigations with regard to this substantive issue. XRAL subsequently reported that with regard to sample 683782RF, incomplete fusion had resulted in an erroneous value. The new value of 7313 ppb Au (Table 3) is much more in agreement with the Chemex value (9480 ppb).

With regard to the samples 683919RF and 683943RF or 8 and 9, respectively, XRAL reported that *our data is in disagreement with Chemex. The re-assays confirm the initial analysis. We think that sample 8 and 9 were switched or samples mislabelled.* XRAL then reported all 3 of its higher gold values as greater than >5000 ppb (Appendix B), citing the fact that, based on the analytical method used, the values reported could vary by up to 15%.

The Chemex investigation included the re-running of a representative number of samples in batches where possible mix-ups could have occurred. The work (Table 3, Part C) confirmed that there was an error in the Chemex data – samples had been switched, such that the 7760 ppb value reported by XRAL does belong with sample 683943RF, and sample 683919RF contains only weakly anomalous gold. The average of the two Chemex check values for sample 683943RF i.e., 7050 ppb has been used in this report.

Other issues raised by the Chemex investigation of the gold values include sample 683793RF. The original Chemex value was 3.22 ppm and it's two checks each returned >10 ppm (Table 3, Part C). Chemex subsequently reported that the certified value for the sample is 14.75 ppm. Chemex indicates that incomplete fusion is a possible but unlikely explanation for the variance in the results. The problem could be the result of the gold being associated with sulfides and the 30 g assay sample not being fully representative of the total sample. Metallic sieving will be used to further investigate this matter.

With regard to some apparent discrepancies between gold values in soil and stream sediment samples shown in Table 3, Part B, the Chemex investigation (Table 3, Part C) shows the following discrepancies where samples have been reported to include both anomalous gold and non- anomalous gold (ppm):

a) 683680SS - 0.259 Chemex; 0.096, 0.116 XRAL; <0.005 Chemex
b) 683856SO - <0.005, 0.086, <0.005 Chemex
c) 683669SS - 0.055, <0.005 Chemex
d) 683855SO- <0.005, <0.005 Chemex; 0.111 XRAL

Sample 683855SO has a gold content of <0.005 ppm, as reported by Chemex. The sample should have little or no gold, as indicated by the Chemex check sample (<0.005 ppm), since it was taken in quartz monzonite terrain, near the east end of L53N. The XRAL value of 111 ppb is herein considered erroneous, possibly due to contamination. The Chemex and XRAL ICP results confirm both labs analysed the same material, eliminating the possibility of a sample mix up.

The variance in samples a, b and c above is herein considered the result of the sulfide factor referenced above with regard to sample 683793RF. Gold is postulated to be associated with pyrite, sphalerite, galena and chalcopyrite. Anomalous values are reflected when the assay sample includes such material, i.e., when the assay sample is representative of the total sample. Such non-anomalous values are thus considered not indicative of the actual gold content, particularly when the anomalous soil value is part of a sequence of anomalous soil gold values on a grid line in the target terrain. Most soil and stream sediment analytical results are considered representative since they have returned rather consistent anomalous results where expected in the target terrain. Confidence in the majority of these results is also provided by Chemex's overall adequate performance with regard to the standards (Table 3, Part A).

TABLE 3: ANALYTICAL QUALITY ASSURANCE:

CHECKS1

PART A. STANDARD CHECK SAMPLES ANALYZED AT CHEMEX WITH SOIL, SEDIMENT AND ROCK SAMPLES:

CHECK SAMPLE NO.:	STANDARD TYPE:	SELECTED ANALYTICAL RESULTS: AU ppb	AG ppm	CD ppm	CU ppm	PB ppm	ZN ppm	AS ppm	SB ppm
683652CK	GTS-2 STANDARD	251	<0.2	0.9	106	23	210	129	<2
683781CK	GTS-2 STANDARD	247	0.5	1	109	21	226	136	<2
683870CK	GTS-2 STANDARD	241	<0.2	<0.5	112	28	232	130	2
683975CK	GTS-2 STANDARD	235	<0.2	1.2	107	21	214	126	2
CANMET VALUES	GTS-2 STANDARD	263	1	NA	100	NA	210	110	NA
CANMET CLASS*	GTS-2 STANDARD	CERT	INFOR		INFOR		INFOR	INFOR	
683654CK	SAND - NO AU CHECK	<5	<0.2	<0.5	8	6	32	2	<2
683701CK	SAND - NO AU CHECK	<5	<0.2	<0.5	3	<2	20	<2	<2
683825CK	SAND - NO AU CHECK	<5	<0.5	<0.5	11	10	51	6	<5
683853CK	SAND - NO AU CHECK	<5	<0.2	<0.5	9	7	36	2	<2
683974CK	SAND - NO AU CHECK	8	<0.2	<0.5	11	8	41	<2	<2
683700CK	CH-3 STANDARD	1245	2.8	1.4	8750	4	158	135	7
683799CK	CH-3 STANDARD	1130	2.6	1.8	8040	5	135	140	<2
683800CK	CH-3 STANDARD	1830	0.3	1	8420	23	150	162	<2
683973CK	CH-3 STANDARD	1070	2.3	2.2	7790	4	125	137	<2
CANMET VALUES	CH-3 STANDARD	1400	2.6	0.8	8300	2	164	143	0.7
CANMET CLASS*	CH-3 STANDARD	CERT	CERT	INFOR	CERT	INFOR	CERT	CERT	PROV
683732CK	MA-2C STANDARD	3050	<0.2	0.5	89	21	78	9	2
683750CK	MA-2C STANDARD	3370	<0.5	<0.5	90	24	92	14	9
CANMET VALUES	MA-2C STANDARD	3020	0.5	0.7	95	25	93	9	3
CANMET CLASS*	MA-2C STANDARD	CERT	PROV	INFOR	INFOR	INFOR	INFOR	INFOR	INFOR

PART B: SAMPLES ANALYZED AT CHEMEX AND THEIR PULPS ANALYZED AT XRAL:

LAB	SAMPLE NUMBER	Au** ppb	Ag ppm	Cd ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
XRAL	683680SS	NSS	NSS						
XRAL	683680SS	96	2.6	3	95.6	54	268	256	<5
XRAL	683680SS	116	2.6	3	88.5	50	261	242	<5
CHEMEX	683680SS	259	2.5	2.6	91	47	261	220	2
XRAL	683696RF	792	77.9						
XRAL	683696RF	676	<10	<1	220	68	66.3	2450	16
CHEMEX	683696RF	709	71.3	0.5	232	62	69	2480	18
XRAL	683795RF	>5000	131						
XRAL	683795RF	7012	131						
XRAL	683795RF	5250	<10	2	244	134	253	196	70
CHEMEX	683795RF	9240	126	2.1	265	124	280	195	77
XRAL	683782RF	>5000							
XRAL	683782RF	7313	>500						
XRAL	683782RF	91	<10	5	1030	388	163	587	193
CHEMEX	683782RF	9480	604	4.4	1070	335	162	539	198
XRAL	683845RF	35	NSS						
XRAL	683845RF	52	1.6	<1	42	9	67.4	5	<5
CHEMEX	683845RF	13	1.4	0.7	45	10	78	12	<2
XRAL	683893RF	789	NSS						
XRAL	683893RF	909	7.4	2	40.3	153	136	1280	18
CHEMEX	683893RF	885	6.8	1.9	43	140	147	1285	21
XRAL	683900SS	154	NSS						
XRAL	683900SS	113	2.2	3	86.5	48	273	237	<5
CHEMEX	683900SS	93	2.3	2.8	86	48	276	229	5
XRAL	683919RF	20	NSS						
XRAL	683919RF	17	0.5	<1	125	<2	61.1	<3	<5
CHEMEX	683919RF	7230	<0.2	0.8	133	4	66	4	<2
XRAL	683943RF	>5000	221						
XRAL	683943RF	6662	221						
XRAL	683943RF	7760	8.5	35	861	472	2500	642	119
CHEMEX	683943RF	<5	209	30.8	869	406	2460	590	111
XRAL	683855SO	NSS	NSS						
XRAL	683855SO	111	1.7	<1	35.4	17	71.6	18	<5
CHEMEX	683855SO	<5	1.2	<0.5	34	14	67	20	<2

* CERT = CERTIFIED
PROV = PROVISIONAL
INFORM = INFORMATIONAL

** TOP GOLD VALUE IS MOST RECENTLY REPORTED XRAL VALUE

TABLE 3, PART C
CHEMEX INVESTIGATION

		Au-AA23			XRAL	
		Au ppm			Au ppm	
		Original	Check 1	Check 2	Original	Check
VA02002971-053	683797	0.018	0.015			
VA02002971-054	683800	1.83	NSS			
VA02002971-055	683801	0.019	0.010			
VA02002971-148	683972	0.015	0.015			
VA02002971-149	683974	0.008	<0.005			
VA02002971-150	683976	0.007	0.032	0.012		
VA02002971-161	683854	0.006	<0.005			
VA02002971-162	683855	<0.005	<0.005		0.111	NSS
VA02002971-163	683856	<0.005	0.086	<0.005		
VA02002972-003	683685	<0.005	<0.005			
VA02002972-004	683782	9.48	9.91	8.47	0.091	7.313
VA02002972-005	683783	0.01	0.012			
VA02002972-013	683793	3.22	>10.0	>10.0		
VA02002972-014	683795	9.24	9.88		5.25	7.012
VA02002972-015	683829	0.032	0.03			
VA02002972-016	683845	0.013	0.016		0.052	0.035
VA02002972-017	683846	<0.005	<0.005			
VA02002972-035	683916	<0.005	<0.005			
VA02002972-036	683919	7.23	0.036	0.011	0.017	0.017
VA02002972-037	683931	0.007	<0.005			
VA02002972-038	683938	<0.005	<0.005			
VA02002972-039	683942	<0.005	<0.005			
VA02002972-040	683943	<0.005	7.33	6.77	7.76	7.76
VA02002972-041	683944	0.012	0.009			
VA02002973-1	683654	<0.005	<0.005			
VA02002973-2	683661	0.018	0.013			
VA02002973-3	683669	0.055	<0.005			
VA02002973-4	683680	0.259	<0.005		0.096	0.116
VA02002973-5	683693	0.019	NSS			
VA02002973-6	683709	0.008	0.009			
VA02002973-7	683713	0.018	0.01			

Resolution of laboratory error

SECTION 8.A.1.

CANMET STANDARD SAMPLE DESCRIPTIONS:

GTS-2, CH-3, MA-2C

GTS-2

Gold Tailings Reference Material

RECOMMENDED VALUE

Constituent	Au	
	µg/g	oz/ton
Mean	0.263	0.0077
95% confidence limits	± 0.005	± 0.0001

DESCRIPTION

GTS-2 is a gold tailings sample obtained from Placer Dome Canada Limited, South Porcupine, Ontario. It is intended to replace GTS-1, which is now depleted. GTS-1 was a composite of tailing from Placer Dome and the Macassa Division of Lac Minerals.

The sample for GTS-2 was taken from the No. 5 Dam and shipped under water in two 45-gallon drums to CANMET for processing.

The liquid from the bulk sample was decanted, and the remainder was dried on steam beds for 12 hours. Once dried, the material was passed through a jaw crusher to break up agglomerates.

The resultant sample was screened directly, in batches, without further milling. The weight of -200-mesh material obtained was 611 kg.

GTS-2 was blended according to a split-blending protocol, and bottled in 1497 400-g units.

The ore at Placer Dome Canada's Dome Mine consists of gold in quartz and ankerite; pyrite and pyrrhotite are present to the extent of about 2.5%. The host rocks are intermediate greenstone, conglomerate, slate, and porphyry. The ore is treated with sodium cyanide, and the gangue is disposed of as tailings.

□ The homogeneity of the stock with respect to its gold content was confirmed at CANMET using bottles chosen according to a stratified random sampling scheme.

CERTIFICATION

Thirty-one industrial, commercial, and government laboratories participated in an interlaboratory certification program by providing gold analyses by methods of each laboratory's choice. Several laboratories also provided analyses for many other elements. A statistical analysis of the data yielded a certified value for gold and information values for twenty other constituents. Data for the remaining elements was either inadequate or inconclusive, but will be disclosed in the final report.

LEGAL NOTICE

The Canadian Certified Reference Materials Project has prepared this reference material and statistically evaluated the analytical data of the inter-laboratory certification program to the best of its ability. The purchaser, by receipt hereof, releases and indemnifies the Canadian Certified Reference Materials Project from and against all liability and costs arising out of the use of this material and information.

REFERENCE

The preparation and certification procedures used for GTS-2 will be given in CANMET report CCRMP 94-7E which is in preparation. This report will be made available free of charge on application to:

Coordinator, CCRMP
CANMET (NRCan)
555 Booth Street
Ottawa, Ontario, Canada
K1A 0G1

Telephone: (613) 995-4738
Facsimile: (613) 943-0573
Telex: 053-3395 Pour obtenir la version française du présent certificat d'analyse, prière de s'adresser au Coordinateur du PCMR.

INFORMATION VALUES

Constituent	wt %
Al2O3	12.
CaO	5.7
Fe2O3 tot	11.1
K_2O	2.2
MgO	4.3
Na_2O	0.9
P_2O_5	0.2
SiO_2	50.
TiO_2	0.75
LOI	9.3
S tot	0.8
C tot	2.4

Element	µg/g
Ag	1

As	110
Ba	190
Cr	250
Cu	100
Ni	90
Sr	95
V	40
Zn	210

CCRMP, CANMET Mining and Mineral Sciences Laboratories
555 Booth Street, Ottawa
Ontario, Canada K1A 0G1

Telephone: (613) 995-4738, Facsimile: (613) 943-0573
E-mail: ccrmp@nrcan.gc.ca

CH-3

Gold-Bearing Sulphide Ore

The source for CH-3 is a gold-bearing material obtained from Westminer Canada Limited from its mine in Chibougamau, Quebec, the same source as CH-2, which has been exhausted. CH-3 was made by blending raw mill feed and waste-rock material.

The ore-grade sample was found to contain pyrite, pyrrhotite, magnetite, siderite, chloritoid, and chalcopyrite with traces of sphalerite, arsenopyrite, chlorite, quartz, and gold. The main gold-bearing mineral was found to be electrum, which occurred as inclusions in the pyrite and chalcopyrite. The waste-rock sample contained mainly silicate minerals.

Both grades of source material were dried, comminuted, sieved, and blended to obtain sub-74 micron (-200 mesh) product. These were assayed at CANMET, blended in the desired proportions and bottled in 200-gram units. Each bottle was sealed under nitrogen in a laminated aluminum foil-mylar pouch to prevent oxidation.

Recommended Values and 95% Confidence Limits

Constituent	Ag µg/g	As µg/g	Au µg/g	CaO wt%	Cu wt%	Fe wt%	S wt%	SiO2 wt%	Zn µg/g
Mean	2.63	143.	1.40	6.35	0.83	12.65	2.82	40.3	164.
95% confidence limits	±0.20	±14.	±0.03	±0.13	±0.02	±0.25	±0.03	±1.1	±15.

Provisional Values

Constituent	Al2O3 wt %	Ba µg/g	C wt %	Co µg/g	Cr µg/g	K2O wt %	LOI wt %	MgO wt %	Mn wt %
Mean	16.1	31.	1.74	245.	35.	0.64	6.7	4.47	0.203
95% confidence limits	± 0.5	± 14.	± 0.03	± 21.	± 16.	± 0.04	± 0.6	± 0.12	± 0.01

Constituent	Mo µg/g	Na2O wt %	Ni µg/g	Sb µg/g	Sr µg/g	Ti wt %
Mean	2.5	1.47	86.	0.7	49.	0.29
95% confidence limits	± 2.5	± 0.10	± 28.	± 1.0	± 11.	± 0.07

Informational Values

Constituent	Bi µg/g	Cd µg/g	Hg µg/g	La µg/g	P2O5 wt %	Pb µg/g	Se µg/g	Te µg/g	Zr µg/g
Mean	1.6	0.8	0.01	19.	0.06	2.	1.3	2.7	18.
95% confidence limits	± 2.6	± 1.0	± 0.07	± 6.	± 0.12	± 3.	± 0.9	± 0.9	± 9.

Twenty-five industrial, commercial, and government laboratories participated in an interlaboratory certification program. Up to 56 elements were analyzed by methods of each laboratory's choice. A statistical analysis of the data yielded recommended values for nine constituents and a further fifteen elements had provisional values assigned. The means for nine more elements are given for information.

A certificate of analysis will be issued with each order of CH-3. A copy of CANMET Report 93-2E, "CH-3: A Certified reference gold ore", will be forwarded, free of charge, on request to the Coordinator, CCRMP.

CCRMP - CANMET (NRCan) - 555 Booth Street, Ottawa, Ontario, Canada K1A 0G1

Telephone: (613) 995-4738, Facsimile: (613) 943-0573, Telex: 053-3395
Internet: ccrmp@nrcan.gc.ca

Certificate of Analysis

First issued: July 2000 Last revision: August 2000

MA-2c

Gold Ore

Table i - Certified and provisional values for gold and silver, respectively.

Element	Ag (µg/g)	Au (µg/g)
Mean	0.51	3.02
Within-laboratory standard deviation	0.07	0.14
Between-laboratories standard deviation	0.13	0.13
95% confidence interval	0.10	0.06
Status	provisional	Certified

Informational values are in table ii on page 4

Source

The raw material for MA-2c was donated by Kinross Gold from its operation in Kirkland Lake, Ontario.

Description

MA-2c is the fourth generation in a series with predecessors, MA-2, MA-2a and MA-2b, which are no longer available. The deposits of the area are known to contain electrum in a relatively simple siliceous ore.

Intended Use

MA-2c is suitable for analysis of gold, silver, majors, minors, and trace elements in gold ores. Examples of intended use are: for quality control in the analysis of samples of a similar type, method development, arbitration and the calibration of equipment.

Instructions for Use

The assigned values pertain to the date when issued. CCRMP is not responsible for changes occurring after receipt by the user. MA-2c should be used "as is". The contents of the bottle should be thoroughly mixed before taking samples.

Method of Preparation

NUMBER, LOCATION	NAME, COLOUR COMPOSITION	STREAM:	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683709SS 50+49E, L54N	CLAY, SILT; BRN 10% CLAY, 80% SILT, 10% ORG	MIDDLE CREEK DRY CREEK, 1.5 M WIDE @ 190 DEG	LG ANG TUFF BREC & ARG BO, OFTEN WELL LIM & C/W DISSEM ASPY & VN PY	8	0.8	2.7	49	15	252	142	2
683717SS 51+46E, L54N	SD, GRAV; BRN 15% SD, 75% PEBS, 10% FRAGS > PEBS & FRAGS MAINLY DERIVED FROM QTZ MON	GRANITE CREEK MIN FLOW, 0.5 M WIDE @ 210 DEG	MIN QTZ MON BO	<5	<0.2	0.6	22	11	94	21	2
LINE 55 N											
683907SS 50+64E, 54+97N	HETRO SD, GRAV; ORGE BRN 30% SD, 70% HETRO FRAGS OF ARG, TUFF BREC QTZ, LIM MAT POORLY SORTED	MIDDLE CRK? NO FLOW MID STR SAMPLE	HETRO BO, FEW LIM MIN QTZ MON	10	0.7	1.7	47	14	238	130	3
LINE 56N											
683661SS 50+83E, L56N	SILT SD; BRN BLK 50% SILT, 40% SD, 10% HETRO FRAGS INCL QTZ MON, ARG, MIN TUFF	SMALL STR, 1 M WIDE DRY STR	HETRO BO IN CRK	18	0.7	2.4	52	18	261	130	<2
EAST CREEK											
683713SS 50+70E, L54N	SILT, SD; BRN 40% SILT, 40% SD, 20% FRAGS > ARG, TUFF BREC, 50% WELL LIM	EAST CREEK? DRY CREEK, 3M WIDE @ 195 DEG	LG ANG TUFF BREC & ARG BO, OFTEN WELL LIM & C/W DISSEM ASPY & VN PY	18	0.9	<0.5	67	20	163	175	6
683693SS 51+27E, 54+95N	SILT SD GRAV; GRY POORLY SORTED 30% SILT, 20% SD, 50% HETRO FRAG INCL 60% TUFF BREC, 30% ARG, 10% QTZ MON	DRY EAST CREEK HIGH ENGERY CRK, @ 220 DEG	25% LIM BO INCL TUFF BREC & ARG	19	0.5	0.6	62	22	155	167	2
683741SS 17 M S, 2 M E OF CL, S OF L55N	SILT; BLK 80% SILT, 20% ORGS WELL SORTED	EAST CREEK NO FLOW	LG HETRO BO IN CRK	128	2.5	3	97	49	266	279	6
683669SS 51+65E, L56N	SILT SD GRAV; ORGE BRN 20% SILT, 40% SD, 40% HETRO FRAGS INCL WH QTZ ARG, TUFF BREC, LIM POORLY SORTED	EAST CREEK @ 117 M CHAIN MARK ON L56	LG HETRO BO IN CRK	55	0.8	0.7	66	24	175	181	4
683911SS 30 M UP E CRK ON CL FROM 51+66E ON L56N	SD GRAV; BRN 80% SD, 20% HETRO FRAGS	EAST CRK NO FLOW	ABUND LG HETRO BO - CRYST TUFF BREC, ARG	12	0.6	<0.5	55	16	145	154	5

NUMBER, LOCATION	NAME, COLOUR COMPOSITION	STREAM:	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683914SS 94 M UP E CRK ON CL FROM 51+66E ON L56N	SD GRAV; BLK 30% SD, 70% HETRO FRAGS POORLY SORTED	EAST CRK NO FLOW	AT OC OF SHEARED CRYST TUFF BREC, ARG	14	6.5	<0.5	69	23	202	163	6
683770SS 237 M UP E CRK ON CL FROM 51+66E ON L56N	SD GRAV; GRY BRN 60% SD, 40% GRAV HETRO FRAGS - CTB, ARG POOR SORT , MID STREAM	EAST CRK, INTERN FLO 25 M BELOW ICE BRIDG	NEAR OC OF SHEARED CRYST TUFF BREC	14	1.3	0.7	77	25	234	249	8
683772SS 362 M UP E CRK ON CL FROM 51+66E ON L56N	CLAY, SILT; BRN 50% CLAY, 50% SILT WELL SORT	EAST CRK LOW FLOW	NEAR OC OF SHEARED CRYST TUFF BREC, ARG	18	1.2	0.9	82	40	273	174	9
683779SS 364 M UP E CRK ON CL FROM 51+66E ON L56N	SD, GRAV; BRN 15% FI SD, 85% MED - CO SD INCL CO PEBS OF LIM, HEM SIL TUFF, QTZ MIN QTZ MON	EAST CRK EAST UPPER TRIB	NEAR OC OF SHEARED CRYST TUFF BREC, ARG, NEAR 683773RF	14	1.7	1.2	79	35	297	170	8
683775SS 377 M UP E CRK ON CL FROM 51+66E ON L56N	CLAY SILT GRAV; BLK BRN 40% CLAY, 20% SILT, 10% SD, 30% HETRO FRAGS POORLY SORTED	EAST CRK	AT OC OF SHEARED CRYST TUFF BREC, ARG	10	0.8	1.2	71	35	295	149	7
HWY ZONE CREEK											
683928SS 48+47E, 52+04N	CLAY, SILT, SD, GRAV; BRN 5% CLAY, 45% SILT, 45% SD, 5% HETRO FRAGS	WEST BRANCH OF HWY ZONE CRK	HETRO BO - ARG, OXID CTB, QTZ VN MAT	65	1.7	2	89	40	223	190	5
683939SS 48+85E, 52+02N	SD, GRAV; BRN 10% FI SD, 30% CO SD, 60% OXID FRAGS OF CTB C/W JAR/AL, WH QTZ	DRY CRK EAST BRANCH OF HWY ZONE CRK	HETRO BO - ARG, OXID CTB, QTZ VN MAT IN CRK	75	2.7	1.9	87	35	218	184	6
683731SS 49+15E, L53N	SILT, SD, GRAV; BRN 10% SILT, 20% SD 70% HETRO FRAGS POORLY SORT, 30% LIM & INCL TUFF, ARG, QTZ MAT	HWY ZONE CRK 10 M WIDE, NO FLOW FLOWS 190 DEG	ABUND ARG, TUFF BREC LIM & FRESH BO IN CRK	116	2	2.5	93	42	250	215	4

NUMBER, LOCATION	NAME, COLOUR COMPOSITION	STREAM:	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683831SS 49+43E, 54+03N	SILT SD GRAV; BRN 10% SILT, 70% SD, 20% FRAGS OF ARG, TUFF BREC	HWY ZONE CRK LOW FLOW MID STR SAMPLE	HETRO BO, FEW LIM	349	2.5	2.4	84	39	239	235	5
683680SS 49+50E, 55+04N	SD GRAV; BRN 25% SD, 75% HETRO PEBS: INCL TUFF, ARG, WH QTZ POORLY SORTED	HWY ZONE CRK, LOW FLOW	25% LIM BO INCL TUFF BREC & ARG	259	2.5	2.6	91	47	261	220	2
683900SS 49+75E, 56+06N	SILT, GRAV; BRN 40% SILT, 60% HETRO FRAG, GEN LIM & INCL TUFF, ARG, WH QTZ, MIN QTZ MON	HWY ZONE CRK LOW FLOW	HETRO BO IN CRK	93	2.3	2.8	86	48	276	229	5
683794SS 259 M UP HWY ZONE CRK ON CL FROM 56+08N & 13 M UP CRK NEAR W WALL	SILT, SD; GRY 10% SILT, 20% SD, 70% FRAGS - GRY CTB POORLY SORTED	HWY ZONE CRK MOD FLOW HIGH ENERGY SECTION OF CRK	MAINLY GREY CTB BO IN CRK BELOW ICE TUNNEL	28	0.8	0.5	61	21	167	182	5

***ABBREVIATIONS**

@	AT	LG	LARGE
ABUND	ABUNDANT	LIM	LIMONITIZED
ANG	ANGULAR	L	LINE
ARG	ARGILLITE	MAT	MATERIAL
ASPY	ARSENOPYRITE	MED	MEDIUM
BLK	BLACK	M	METER
BO	BOULDERS	MID	MIDDLE
BREC	BRECCIA	N	NORTH
BRIDG	BRIDGE	OC	OUTCROP
BRN	BROWN	ORGE	ORANGE
CO	COARSE	ORG	ORGANICS
C/W	COMPLETE WITH	ppb	PARTS PER BILLION
CL	CONTROL LINE	ppm	PARTS PER MILLION
CRK	CREEK	PEBS	PEBBLES
CTB	CRYSTAL TUFF BRECCIA	PO	PYRRHOTITE
DEG	DEGREES	PY	PYRITE
DISSEM	DISSEMINATED	QTZ	QUARTZ
E	EAST	QTZ MON	QUARTZ MONZONITE
FI	FINE	SD	SAND
FLO	FLOW	SD	SOUTH
FRAGS	FRAGMENTS	STR	STREAM
GRAV	GRAVEL	SS	STREAM SEDIMENT
GRY	GREY	TRIB	TRIBUTARY
HEM	HEMATIZED	VN	VEIN
HWY	HIGHWAY	W	WEST
INCL	INCLUDING	WH	WHITE
INTERN	INTERNAL	YEL	YELLOW

TABLE A1.1

STREAM SEDIMENT SAMPLE LOCATIONS

AND MES ANALYTICAL RESULTS

TABLE A1.1

STREAM SEDIMENT SAMPLE LOCATIONS S AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES SHOWN IN BOLD*: STRPOLYATAB

SAMPLE NUMBER	GRID OR CONTROL LINE LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASE LINE 50E									
683814SS	50+07E, 51+75N	**12**	**0.6**	<0.5	**52**	**18**	**147**	**144**	**4**
LINE 51N									
683983SS	49+77E, 51+07N	9	**0.7**	0.6	**59**	**19**	**154**	**169**	**4**
LINE 52N									
683918SS	47+85E, L52N	<5	0.2	<0.5	**92**	7	71	6	<2
683971SS	50+15E, L52N	**17**	**0.8**	<0.5	**53**	**18**	**163**	**178**	**5**
LINE 53N									
683726SS	49+49E, L53N	**90**	**2.4**	**2.2**	**91**	**41**	**229**	**227**	**6**
683860SS	51+07E, L53N	**13**	<0.2	<0.5	23	12	82	20	<2
LINE 54N									
683835SS	49+85E, L54N	**38**	**0.8**	<0.5	**48**	**27**	118	**172**	**4**
683709SS	50+49E, L54N	6	**0.8**	**2.7**	**49**	**15**	**252**	**142**	2
683717SS	51+46E, L54N	<5	<0.2	0.6	22	11	94	21	2
LINE 55N									
683907SS	50+64E, 54+97N	**10**	**0.7**	**1.7**	**47**	14	**238**	**130**	**3**
LINE 56N									
683661SS	50+83E, L56N	**18**	**0.7**	**2.4**	**52**	**18**	**261**	130	<2
EAST CREEK									
683713SS	50+70E, L54N	**18**	**0.9**	<0.5	**67**	**20**	**163**	**175**	**6**
683693SS	51+27E, 54+95N	**19**	**0.5**	**0.6**	**62**	**22**	**155**	**167**	2
683741SS	CL @ 54+83N	**128**	**2.5**	**3**	**97**	**49**	**266**	**279**	**6**
683669SS	51+65E, L56N	**55**	**0.8**	**0.7**	**66**	**24**	**175**	**181**	**4**
683911SS	CL @ 56+30N	**12**	**0.6**	<0.5	**55**	**16**	**145**	**154**	**5**
683914SS	CL @ 56+94N	**14**	**6.5**	<0.5	**69**	**23**	**202**	**163**	**6**
683770SS	CL @ 58+37N	**14**	**1.3**	**0.7**	**77**	**25**	**234**	**249**	**8**
683772SS	CL @ 59+62N	**18**	**1.2**	**0.9**	**82**	**40**	**273**	**174**	**9**
683779SS	CL @ 59+64N	**14**	**1.7**	**1.2**	**79**	**35**	**297**	**170**	**8**
683775SS	CL @ 59+77N	**10**	**0.8**	**1.2**	**71**	**35**	**295**	**149**	**7**
	AVER. VALUES	**30**	**1.7**	**0.8**	**73**	**29**	**221**	**186**	**6**
HWY ZONE CREEK (MAIN AND SE BRANCH)									
683928SS MB	48+47E, 52+04N	**65**	**1.7**	**2**	**89**	**40**	**223**	**190**	**5**
683939SS SEB	48+85E, 52+02N	**75**	**2.7**	**1.9**	**87**	**35**	**218**	**184**	**6**
683731SS MB	49+15E, L53N	**116**	**2**	**2.5**	**93**	**42**	**250**	**215**	**4**
683831SS MB	49+43E, 54+03N	**349**	**2.5**	**2.4**	**84**	**39**	**239**	**235**	**5**
683680SS MB	49+50E, 55+04N	**259**	**2.5**	**2.6**	**91**	**47**	**261**	**220**	**2**
683900SS MB	49+75E, 56+06N	**93**	**2.3**	**2.8**	**86**	**48**	**276**	**229**	**5**
683794SS MB	CL @ 58+59N, 13 M NW	**28**	**0.8**	0.5	**61**	**21**	**167**	**182**	**5**
HWY ZONE CREEK 2000 SAMPLES									
759812SS SEB	48+85E, 51+08N	**100**	**1.6**	**1.5**	**90**	**40**	**220**	**186**	**6**
759979SS MB	41+85E, 51+38N	**150**	**2**	**2**	**83**	**36**	**226**	**164**	<2
759980SS MB	42+15E, 51+38N	**60**	**2**	**2.5**	**88**	**36**	**240**	**190**	<2
HWY ZONE CREEK WARP AREA 2000 SAMPLE									
759868SS SM CRK ON OLD HWY 37A	42+62E, 50+85N	**65**	**2.4**	**2.5**	**107**	**48**	**284**	**246**	**4**
	AVER. VALUES	**124**	**2.1**	**2.1**	**87**	**39**	**237**	**204**	**4**

*ANOMALOUS VALUES BASED ON GEOFINE REGIONAL THRESHOLD CRITERIA
OF 10 ppb Au, 0.4 ppm Ag, 0.7 ppm Cd, 45 ppm Cu, 15 ppm Pb, 130 ppm Zn, 24 ppm As, 4 ppm Sb

Both gold ore and waste rock were dried, crushed, ground and sieved to produce a product with a mesh size of less than 75 µm. After blending, the material was bottled in 400-g units. This is the only size available.

State of Homogeneity

A homogeneity assessment for gold was performed by an independent laboratory on 30 g samples using instrumental neutron activation analysis. Thirty gram samples were analysed for silver using fire assay with lead collection and determination by atomic absorption spectroscopy. No evidence of inhomogeneity was found for gold or silver. A one–way analysis of variance technique (ANOVA) was used to assess the homogeneity of gold and silver (1). The ratio of the between-bottle to within-bottle mean squares was compared to the F statistic at the 95% level of probability. No evidence of inhomogeneity was observed. Use of a smaller sub-sample will invalidate the use of the certified value and associated parameters. Further details are available in the certification report.

Method of Certification

Twenty industrial, commercial, and government laboratories participated in the 1998 interlaboratory certification program. Gold and silver were analysed by a variety methods. A statistical analysis of the data yielded Certified Values for gold, and a provisional value for silver. Informational values are derived from the mean of five results from up to six laboratories using one or more of instrumental neutron activation; acid digestion followed by atomic absorption spectroscopy, inductively coupled plasma – atomic emission spectroscopy, or inductively coupled plasma – mass spectrometry; fusion with lithium metaborate followed by x-ray fluorescence, and combustion methods. A one-way analysis of variance technique was used to estimate the consensus value and other statistical parameters (1). Full details of all phases of the work, including statistical analysis, the methods and the names of the participants are contained in CCRMP Report 00-2E.

Legal Notice

The Canadian Certified Reference Materials Project has prepared this reference material and statistically evaluated the analytical data of the interlaboratory certification program to the best of its ability. The purchaser, by receipt hereof, releases and indemnifies the CANMET from and against all liability and costs arising out of the use of this material and information.

Period of Validity

These certified values are valid until 2007. The stability of the material will be monitored every seven years. Purchasers will be notified of any significant changes.

Certifying Officers

Joseph Salley
Maureen E. Leaver

For Further Information

The preparation and certification procedures used for MA-2c, including methods and values obtained by individual laboratories, are given in CCRMP Report 00-2E. This report is available free of charge on application to:

Sales Manager, CCRMP
CANMET (NRCan)
555 Booth Street
Ottawa, Ontario, Canada K1A 0G1

Telephone: (613) 995-4738
Facsimile: (613) 943-0573
E-mail: ccrmp@nrcan.gc.ca

Reference

1. **Brownlee, K.A., Statistical Theory and Methodology in Science and Engineering; John-Wiley and Sons, Inc.; New York; 1960**

Table ii – Informational values for the mean of up to six sets using a variety of methods.

Element	Unit	Mean	SD
Al	%	6.70	0.29
As	µg/g	9.10	2.32
Ba	%	0.22	0.01
Be	µg/g	3.74	0.48
Bi	µg/g	0.66	0.05
C	%	1.78	0.07
Ca	%	4.76	0.05
Cd	µg/g	0.7	0.1
Ce	µg/g	141	2
Co	µg/g	25	2
Cr	µg/g	216	45
Cs	µg/g	9.09	0.73
Cu	µg/g	95	5
Dy	µg/g	5.16	0.05
Er	µg/g	2.26	0.02
Eu	µg/g	3.15	0.15
Fe	%	5.39	0.51
Ga	µg/g	17.62	0.48
Gd	µg/g	9.58	0.19
Hf	µg/g	5.40	0.14
Ho	µg/g	0.92	0.03
K	%	3.20	0.06
La	µg/g	61.49	8.48
Li	µg/g	27.71	1.94
Lu	µg/g	0.30	0.01
Mg	%	2.91	0.32
Mn	%	0.10	0.01
Mo	µg/g	14.3	1.4
Na	%	2.23	0.08
Nb	µg/g	6.52	0.13
Nd	µg/g	61.9	1.2
Ni	µg/g	64	8
P	%	0.24	0.02
Pb	µg/g	25	4
Pr	µg/g	16.26	0.20
Rb	µg/g	147	5

8.B. GEOCHEMICAL SURVEYS:

The results of the stream sediment, soil and rock geochemical surveys (Maps A1, A2, A2.1-A2.6, A3; Tables A1, A1.1, A2, A2.1, A3, A3.1-A3.3) have been interpreted in terms of a multi element signature (MES), i.e., Au, Ag, Cd, Cu, Pb, Zn, As, with multi element threshold criteria (MESTC) of 10 ppb Au, 0.4 ppm Ag, 0.07 ppm Cd, 45 ppm Cu, 15 ppm Pb, 130 ppm Zn, 24 ppm As, 4 ppm Sb. Geofine has developed such criteria in the execution of exploration programs in Hazelton Group terrain in the Stewart Camp.

8.B.1. STREAM SEDIMENT GEOCHEMICAL SURVEYS:

A total of 28 stream sediment samples (Tables A1, A1.1; Map A1) were collected on the grid lines and control lines in the lower target area (Photos 1, 5) and on control lines in the upper target area (Photos 1, 3). Control lines were established up Highway Zone Creek and much of East Creek in order to precisely locate the drainage channels and facilitate the geochemical and geological surveys (Map A1). The creeks are prone to high-energy run-off conditions, and the sudden summer melt of winter and spring snow almost totally purged the streams of fines. Access to upper Highway Zone Creek i.e., to the area of the Highway Zone Creek Showing (Photo 6), and to the west branch of upper East Creek (Photo 7) was negated by snow conditions, which persisted during the 2002 field program.

The stream sediment sample descriptions are presented in Table A1, along with the MES analyses (Au, Ag, Cd, Cu, Pb, Zn, As, Sb). The sample locations are shown along with the MES analyses in Table A1.1. The complete analytical results are listed on the Chemex Certificates of Analysis in Appendix A.

Based on the MESTC referenced above, Highway Zone Creek and East Creek have consistently anomalous multi element signatures, as shown in bold in Table A1.1. The individual average element values for the two creeks are calculated in Table A1.1 and include the results of four 2000 stream sediment samples from Highway Zone Creek and a tributary creek (Table A1.1, Map A1). These values indicate that the Highway Zone Creek geochemical signature is stronger in most respects and is of particular interest in view of the higher gold values (average value of 124 ppb vs. 30 ppb in East Creek). The Highway Zone Creek values range up to 349 ppb and occur over a 750 m strike length, which remains open to the north – towards the important Highway Creek Zone Showing, and to the south. The Ag, Cd, Pb and Zn signature also suggests that the creek has better potential for high-grade polymetallic mineralization than East Creek.

8.B.1.1 SIGNIFICANCE OF THE STREAM SEDIMENT GEOCHEMICAL SURVEY:

The stream sediment survey has confirmed the historical interpretation that Highway Zone Creek and East Creek have favourable multi element signatures. However, that of the former creek is stronger and considered more prospective for the high-grade target mineralization: Type 1 gold and Type 2 polymetallic mineralization, as defined in Section 8.B.3, below. The areas of Highway Zone Creek and East Creek between L53N and L56N, and L55N and L56N, respectively, have the strongest multi element stream sediment geochemical signatures. Samples from a number of smaller creeks in the vicinity of BL50E also have signatures of particular interest (e.g., sample 683726SS and 683835SS, Table A1.1)

TABLE A1

STREAM SEDIMENT SAMPLE DESCRIPTIONS

AND MES ANALYTICAL RESULTS

TABLE A1:
STREAM SEDIMENT SAMPLE DESCRIPTIONS AND MULIT ELEMENT SIGNATURE ANALYTICAL RESULTS*:

STRPOLYA

NUMBER, LOCATION	NAME, COLOUR COMPOSITION	STREAM:	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASE LINE 50E											
683814SS 50+07E, 51+75N	SILT, SD; YEL BRN 70% SILT, 15% SD, 7% ORG, 8% HETRO BO - CTB, ARG WELL SORTED	DRY STREAM @ 175 DEG S ACROSS BL 2 M WIDE	LIM CTB & ARG IN CRK	12	0.6	<0.5	52	18	147	144	4
LINE 51N											
683983SS 49+77E, 51+07N	SILT, SD, GRAV; BLK 25% SILT, 45% SD, 25% HETRO FRAGS, 5% ORGS	DRY STREAM	LIM, GRY CTB & ARG IN AREA	9	0.7	0.6	59	19	154	169	4
LINE 52N											
683918SS 47+85E, L52N	CLAY, SILT; BRN 65% CL, 30% SILT, 5% ORGS WELL SORTED	DRY CREEK	ALT CTB SUBCROP	<5	0.2	<0.5	92	7	71	6	<2
683971SS 50+15E, L52N	MOSS MAT SAMPLE; GREY SILT, ORG SILT SIZE	DRY CREEK @ 180 DEG	ABUND HETRO BO - MAINLY ARG	17	0.8	<0.5	53	18	163	178	5
LINE 53N											
683726SS 49+49E, L53N	SD, GRAV; BRN 30% SD, 70% HETRO FRAGS POORLY SORT, 35% LIM & INCL TUFF, ARG, QTZ MAT	DRY CREEK @ 148 DEG	ARG TUFF BREC LIM & FRESH BO IN AREA	90	2.4	2.2	91	41	229	227	6
683860SS 51+07E, L53N	SD, GRAV; GRY 70% SD, 30% HETRO FRAGS - 10% QTZ MON & LIM TUFF, ARG, WELL SORT	GRANITE CREEK SEEPAGE FLOW	BO IN CRK MAINLY QTZ MON	13	<0.2	<0.5	23	12	82	20	<2
LINE 54N											
683835SS 49+85E, L54N	CLAY, SILT; BRN 80% CLAY, 15% SILT, 5% ORG WELL SORTED	DRY CREEK, 1.5 M WIDE @ 180 DEG	LG ANG TUFF BRECC & ARG BO, OFTEN WELL LIM & C/W DISSEM ASPY & VN PY	38	0.8	<0.5	48	27	118	172	4

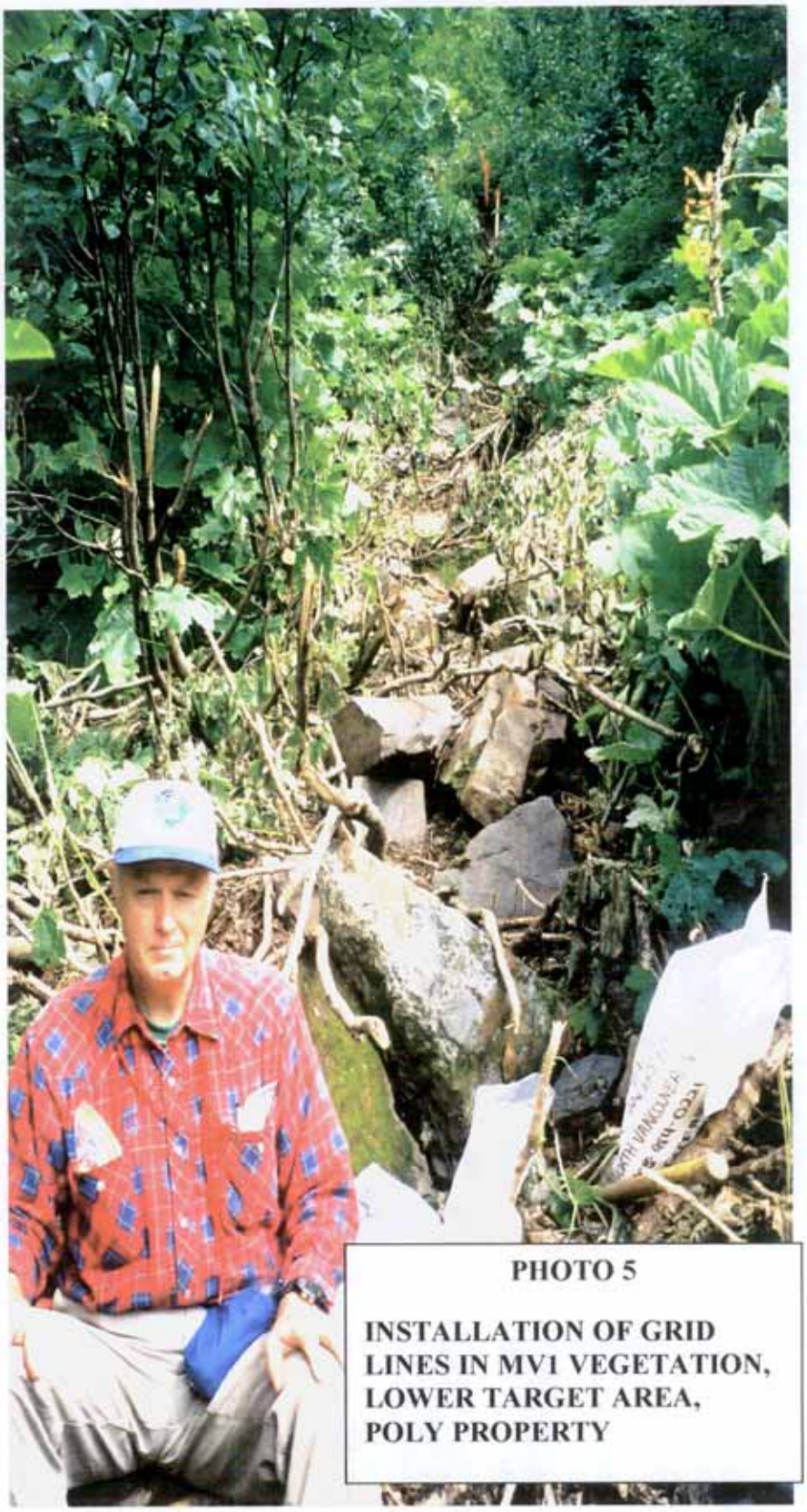


PHOTO 5

INSTALLATION OF GRID LINES IN MV1 VEGETATION, LOWER TARGET AREA, POLY PROPERTY

PHOTO 6

SNOW COVERING
HIGHWAY ZONE CREEK
SHOWING, HIGHWAY ZONE
CREEK

PHOTO 7

SNOW COVERING WEST BRANCH (ON LEFT), UPPER EAST CREEK

8.B.2. SOIL GEOCHEMICAL SURVEYS (TABLES A2, A2.1; MAPS A2, A2.1-A2.6)

Most of the 162, mainly B horizon soil samples were collected at a 12.5 m spacing on the grid lines in the lower target area (Photo 5; Map A2). The samples are described in Table A2, along with the MES analyses. The complete analytical results are shown on the Chemex Certificates of Analyses in Appendix A. For interpretive purposes, the database includes 18 soil samples collected in 2000 (Table A2.1; Kennedy, 2000).

The samples are listed by line or by creek in Table A2.1, along with the MES analyses. Based on the Geofine regional threshold criteria referenced in Section 8.B., the interpreted anomalous signature values are highlighted in bold. As shown in Table A2.1, anomalous soil gold, silver, copper, lead and arsenic values are widespread on the grid, but the strongest concentration of anomalous MES values is found west of the BL50E, in proximity to the west end of the grid lines. The results of the detailed soil survey thus appear to substantiate the results of the stream sediment survey i.e., one of the principal target areas on the grid is located in the lower target area in proximity to Highway Zone Creek.

This apparent association of anomalous soil signature values in proximity of Highway Zone Creek is illustrated on the individual soil element maps: Map A2.1, showing the contoured gold values; Map A2.2, silver and cadmium values; Map A2.3, contoured copper values; Map A2.4, contoured lead values; Map A2.5, contoured zinc values; and, Map A2.6, antimony values and contoured arsenic values. While the limitations of contouring such widely spaced data are apparent, the rationale for doing so includes the interpreted north trending, main structural controls of the target mineralization, as referenced in Sections 8.C. and 8.D., below.

8.B.2.1. GOLD SOIL GEOCHEMISTRY (TABLE A2.1, MAP A2.1)

As outlined by the 20 ppb soil gold contour on Map A2.1., most anomalous gold values are located west of the BL50E. The anomalous zone trends mainly north and has a width of over 80 m near L56N and up to over 200 m south of L52N. Within the zone, the highest gold values on the grid and old Hwy 37A control line are outlined by the 50 ppb contour. The higher-grade zone encompasses most of the strike length of Highway Zone Creek, and also has a strong east flanking association with the trend of the creek.

As discussed below in this section, as is the case with most MES anomalous soil zones, there is a broadening of the anomalous gold zone in the southwest area of the grid – generally west of East Creek to west of the main branch of Highway Zone Creek. As shown on Map A2.1, the main branch of the creek bends sharply southwest, south of L53N. It is postulated that the bend may reflect a warping or inflection in the bedrock, thus providing a structural environment conducive to the deposition of the target polymetallic mineralization, as described in Sections 8.B.3., 8.C. and 8.D.

The area of East Creek between about 54+50N to L56N is another target area of interest, as suggested by the 20 ppb soil gold contour. This area was also indicated by the stream sediment survey (Section 8.B.1).

TABLE A2

SOIL SAMPLE DESCRIPTIONS

AND MES ANALYTICAL RESULTS

TABLE A2:
SOIL SAMPLE DECRIPTIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS*

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	SOILPOLYA DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASE LINE 50E (S TO N)													
683976S0 BL50E, 49+50N	SILT, SD, GRAV 30% SILT, 40% SD, 30% HETRO FRAGS, ARG, CTB CTB SIL C/W PO, PY	STONEY B, POOR	25 CM, BRN SILT - FRAGS	POOR > S MV2	MAINLY OXID & GRY ARG BO	7	0.7	<0.5	59	17	117	128	2
683979S0 BL50E, 49+75N	SILT, SD 60% SILT, 30% SD, 5% ARG FRAGS, 5% ORG	STONEY B, FAIR	25 CM, BRN SILT - FRAGS	GOOD > S MV2	MAINLY OXID & GRY ARG BO	7	0.4	<0.5	51	21	135	131	2
683801S0 BL50E, 50+02N	SILT, SD 65% SLT, 30% SD, 5% FRAGS - GRY TUFF BREC	B, FAIR	24 CM, BRN SILT - FRAGS	POOR, MV1	GRAVEL PIT TO N C/W HETRO BO	19	<0.2	<0.5	94	20	130	68	<2
683802S0 BL50E, 50+25N	SILT, SD 70% SILT , 25% SD, 5% ORG	B, GOOD	25 CM, BRN SILT - FI	POOR, MV1	GRAVEL PIT TO N C/W HETRO BO	25	<0.2	<0.5	76	29	175	199	4
683803S0 BL50E, 50+57N	SILT, SD 70% SILT , 25% SD, 5% HETRO FRAGS, 50% OXID	STONEY B, POOR	20 CM, BRN SILT - FRAGS	POOR, MV1	GRAVEL PIT TO S C/W HETRO BO	21	<0.2	<0.5	69	27	120	209	3
683804SO BL50E, 50+78N	SD, GRAV 30% SD, 70% HETRO FRAGS C/W 20% LIM & TUFF BREC, 2-3% SULFS; MIN ORG	STONY B, FAIR	1 M DOWN BANK BRN, FI - FRAGS	GOOD > S MV1	HETRO ANG BO, 30% LIM	15	<0.2	<0.5	62	28	129	187	<2
683806SO BL50E, 51+01N	SILT 95% SILT, 5 ORG	B, FAIR	20CM BRN, SILT	GOOD > S MV1	HETRO ANG BO, 30% LIM	15	<0.2	<0.5	45	20	85	141	4
683807SO BL50E, 51+25N	CL, SILT 40% CL, 50% SILT, 5% ORG, 5% LIM FRAGS OF CTB, SER SCHIST	B, GOOD	30CM RD BLK CLAY - FRAGS	GOOD > S MV1	HETRO ANG BO, 30% LIM	17	<0.2	<0.5	33	13	40	75	<2
683811SO BL50E, 51+60N	SILT, SD 50% SLT, 40% SD, 5% ORG, 5% LIM FRAGS, MAINLY OF BNDED ARG WITH WK SULFS	B, GOOD	40CM BRN, FI- FRAGS	GOOD > S MV1	HETRO ANG BO, 30% LIM	24	0.8	<0.5	81	31	169	193	<2
683813SO BL50E, 51+71N	SILT, SD 45% SILT, 50% SD, 5% ORG ARG FRAGS IN HOLE C/W FI DISSEM ASPY	B, FAIR	20CM YEL BRN SILT - FI	GOOD > S MV1	MIN OXID BO	17	<0.2	<0.5	64	27	153	177	<2
683816SO BL50E, 52+26N	CL, SILT 55% SILT, 40% CL, 5% ORG	B, POOR	10 CM YEL BRN BLK	GOOD > S MV1	LIM CTB, ARG BO C/W SOM VN - QTZ	12	<0.2	0.5	64	27	218	186	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683817SO BL50E, 52+52N	SILT, CL 60% SILT, 30% CL, 5% ORG, 5% ANG FRAGS CTB	STONY B, POOR	25 CM YEL BRN BLK CLAY - FRAGS	GOOD > S MV1	GRY & LIM CTB, ARG BO	22	<0.2	<0.5	73	23	178	182	<2
683818SO BL50E, 52+68N	SILT, SD 50% SILT, 40% SD, 5% ORG, 5% ANG HETRO FRAGS - CTB, SHEARED & LIM	STONEY B, POOR	20 CM BRN SILT - FRAGS	GOOD > S MV1	GRY & LIM CTB, ARG BO	17	<0.2	<0.5	68	26	162	189	2
683720SO BL50E, L53+00	SILT, SD 50% SILT, 45% SD, 5% ANG HETRO FRAGS - CTB, SIL & LIM	B, WELL	30 CM ORGE BRN SILT - FRAGS	GOOD > S MV1	GRY & LIM CTB, ARG BO	33	<0.2	<0.5	56	26	137	213	<2
683819SO BL50E, 53+25N	SILT, SD 60% SILT, 30% SD, 5% ORG, 5% ANG HETRO FRAGS - INCL SHEARED & LIM CTB	B, GOOD	75 CM, BANK YEL BRN BLK SILT- FRAGS	GOOD > SW MV1	GRY & LIM CTB, ARG BO MINOR QTZ MON	8	<0.2	<0.5	40	25	81	40	<2
683820SO BL50E, 53+49N	SILT, SD 45% SILT, 45% SD, 5% ORG, 5% ANG HETRO FRAGS - INC LIM CTB	B, GOOD	60 CM, BANK GRY BRN SILT- FRAGS	GOOD > W MV1	GRY & LIM CTB, ARG BO	13	0.3	<0.5	38	15	40	63	<2
683821SO BL50E, 53+75N	SILT, SD 45% SILT, 45% SD, 5% ORG, 5% ANG HETRO FRAGS - CTB SHEARED & LIM	STONEY B, GOOD	60 CM, BANK RD BRN SILT- FRAGS	GOOD > SW MV1	GRY TUFF BREC & ARG BO	17	0.3	<0.5	40	15	53	58	<2
683702SO BL50E, L54N	CLAY, SILT 80% CLAY, 15% SILT, 5% ORG	B, GOOD	25 CM, RD BRN CL - SLT	GOOD > S MV1	ALT TUFF IN HOLE ANG BO TUFF, ARG, OFTEN LIM	36	<0.2	<0.5	45	26	72	138	<2
683844SO BL50E, 54+25N	SILT, SD 45% SILT, 45% SD, 5% QTZ MON FRAGS, 5% ORG	B, GOOD	35 CM, BANK YEL BRN SILT - FRAGS	GOOD > S MV2	QTZ MON TERRAIN?	132	0.3	<0.5	32	12	48	22	<2
683876SO BL50E, 54+50N	CL, SILT, SD 10% CL, 40% SILT, 40% SD, 10% LIM TUFF BREC FRAGS	STONEY B, FAIR	20 CM, ORGE BRN CL - FRAGS	GOOD > S MV1	GRY - LIM BO, MAINLY TUFF BREC, SOME ARG	58	0.2	<0.5	63	40	150	173	<2
683875SO BL50E, 54+75N	SILT, SD 80% SILT, 10% SD, 10% FRAGS LIM & GRY TUFF BREC	B, GOOD	25 CM, YEL BRN SILT - FRAGS	GOOD > S MV1	GRY - LIM BO, MAINLY TUFF BREC, SOME ARG	50	<0.2	<0.5	49	36	129	179	<2
683883SO BL50E, L55N	CL, SILT, SD 10% CLAY, 50% SILT, 40% SD	B, GOOD	25 CM, BRN CLAY - FI	GOOD > S MV1	GRY - LIM BO, MAINLY TUFF BREC, SOME ARG	47	<0.2	<0.5	59	46	145	226	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683885SO BL50E, 55+25N	SILT, SD 70% SILT, 10% SD 20% LIM TUFF BREC FRAGS	STONEY B, GOOD	25 CM, BRN CLAY - FRAGS	GOOD > S MV1	ABUND TUFF BREC, LIM	<5	<0.2	<0.5	39	20	58	63	2
683887SO BL50E, 55+50N	CL, SILT 10% CL, 70% SILT, 20% FRAGS, LIM TUFF BREC	B, GOOD	30 CM, BRN CLAY - FRAGS	GOOD > S MV1	ABUND TUFF BREC, LIM SOME ARG BO	26	<0.2	<0.5	42	20	82	62	<2
683891SO BL50E, 55+75N	SILT, SD 40% SILT, 40% SD, 5% ORG 15% FRAGS, LIM TUFF BREC MINOR AGR	B, GOOD	30 CM, BANK, BRN CLAY - FRAGS	GOOD > S MV1	ABUND TUFF BREC, LIM SOME ARG BO	79	1.3	<0.5	48	20	57	41	<2
683894SO BL50E, L56N	SILT, SD 60% SILT, 20% SD, 20 % FRAGS, LIM TUFF BREC	B, GOOD	30 CM, BRN SILT- FRAGS	GOOD > SW MV1	FEW BO	12	<0.2	<0.5	47	25	89	67	<2
683895SO BL50E, 56+08N	CL, SILT 60% CL, 30% SILT, 5% ORG, 5% FRAGS, LIM TUFF BREC & ARG	B, GOOD	40 CM, ORGE BRN - BLK SILT- FRAGS	GOOD > SW MV1	HETRO BO IN HWY SHOW CRK TO W	20	0.7	<0.5	44	20	73	62	3
LINE 51N (W TO E)													
683990SO 48+67E, L51N	SILT, SD, GRAV 35% SILT, 45% SD, 15% HETRO FRAGS OF CTB, ARG, 5% ORG	B, FAIR	15 CM, BANK, BLK ORGE BRN SILT - FRAGS	GOOD > SW MV1	AT S EDGE OF FLUVIAL BO TRAIN	57	0.7	1.1	109	30	199	147	4
683989SO 49+00E, 50+92N	SILT, SD, GRAV 35% SILT, 45% SD, 15% HETRO FRAGS OF CTB, ARG, 5% ORG	B, FAIR	20 CM, ORGE BRN - BLK ORGE BRN SILT - FRAGS	GOOD > SW MV1	AT S EDGE OF FLUVIAL BO TRAIN	53	1.4	1.3	70	30	154	134	2
683988SO 49+12E, L51N	SILT, SD, GRAV 50% SILT, 35% SD, 10% HETRO FRAGS OF CTB, ARG, 5% ORG	B, FAIR	2 M, BANK, ORGE BRN BLK - ORGE BRN SILT - FRAGS	GOOD > SW MV1	AT BOT OF HILL, ON E OF ABUND FLUVIAL HETRO BO TRAIN	38	1.3	1.8	116	33	223	184	<2
683987SO 49+25E, L51N	SILT, SD, GRAV 50% SILT, 35% SD, 10% HETRO FRAGS OF CTB, ARG, 5% ORG	B, FAIR	2 M, BANK, ORGE BRN BLK - ORGE BRN SILT - FRAGS	GOOD > SW MV1	ABUND GRY CTB, OX LIM MAT, VN MAT ON SIDE STEEP SLOPE	49	0.5	1.9	132	37	235	169	<2
683986SO 49+37E, L51N TOP OF SLOPE	SILT, SD, GRAV 20% SILT, 40% SD, 35% HETRO FRAGS OF CTB, ARG, 5% ORG	B, FAIR	2 M, BANK, ORGE BRN BLK - ORGE BRN SILT - FRAGS	GOOD > SW MV1	ABUND GRY CTB, OX LIM MAT, VN MAT ON SIDE STEEP SLOPE	68	1.3	1.5	102	32	203	171	<2
683985SO 49+50E, L51N	CL, SILT 30% CL, 65% SILT, 5% ORG	B, GOOD	25 CM, ORGE BRN - BLK ORGE BRN CL - SILT	GOOD > S MV2	NONE	<5	0.4	<0.5	33	14	65	66	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683984SO 49+62E, L51N	SILT, SD, GRAV 30% SILT, 55% SD, 10% HETRO FRAGS OF CTB, ARG, 5% ORG	STONEY B, FAIR	30 CM, ORGE BRN SILT- FRAGS	GOOD > S MV2	GRY HETRO BO, SOM GRAN	23	0.8	<0.5	37	17	105	133	4
683980SO 49+87E, L 51N	SILT, SD, GRAV 20% SILT, 50% SD, 30% HETRO FRAGS OF CTB, ARG	B, GOOD	50 CM, BANK ORGE BRN GRY SILT- FRAGS	GOOD > S MV1	HETRO BO, MAINLY GRY SULF CTB	<5	0.8	<0.5	55	18	127	151	2
LINE 52N (W TO E)													
683917SO 47+87E, L52N	CLAY, SILT, FRAGS 10% CL, 70% SILT, 20% FRAGS OF CTB WELL SHEARED, SULF	B, GOOD	20 CM, ORGE BRN - MED BRN CLAY - FRAGS	GOOD > SW MV1	SHEARED OC OF CTB IMMED TO W	9	<0.2	<0.5	201	5	103	<2	<2
683921SO 48+02E, L52N	SD, SILT 40% SILT, 45% SD, 5% FRAGS CTB & RHY 5% ORG	STONEY B, FAIR	25 CM, ORGE BRN - MED BRN CLAY - SILT	GOOD > SW MV1	HETRO, LIM BO OF CTB IN AREA	55	1.8	1	69	34	163	168	2
683920SO 48+12E, L52N	SD, GRAV 40% SD, 60% HETRO FRAGS OF CTB, ARG, RHY	STONEY B, POOR	30 CM, ORGE BRN - MED BRN FI - FRAGS	GOOD > S MV1	HETRO, LIM BO OF CTB IN AREA	74	2.4	2.2	117	40	195	210	3
683927SO 48+25E, L52N	CLAY, SILT, SD 15% CLAY, 35% SILT, 40% SD, 5% FRAGS QTZ, AGR, CTB 5% ORG	STONEY B, FAIR	25 CM, ORGE BRN - GRY BRN CLAY - FRAGS	GOOD > W MV2	HETRO, LIM BO OF CTB ARG IN AREA	37	0.8	2	56	27	173	126	2
683923SO 48+37E, L52N	SD, ORG 30% SD, 70% ORG	STONEY B, POOR	30 CM, BRN FI	GOOD > W MV2	HETRO, LIM BO OF CTB ARG IN AREA	123	2.4	2.1	73	31	207	157	3
683925SO 48+52E, L52N E BANK HZ CRK	SD 60% SD, 40% HETRO FRAGS - OXID & FRESH	B, GOOD	20 CM DK BRN CO	GOOD >W MV2	HETRO BO IN CRK	106	1.9	2.5	85	39	247	208	4
683940SO 48+62E, L52N	SILT, FRAGS 70% SILT, 30% FRAGS OF CTB, MIN ORG	B, GOOD	25 CM, BANK BRN SILT - FRAGS	GOOD > S MV1 ON EDGE OF MV2	MAINLY GRY ANG BO, CTB	53	1.5	1.3	60	38	178	176	4
683941SO 48+77E, L52N	CLAY, SIL 40% CLAY, 50% SILT, 10% ORG	A B, POOR	10 CM, BANK BRN BLK SILT - FRAGS	GOOD > S MV2	MAINLY GRY ANG BO, CTB	52	1.5	2.1	79	38	227	168	2
683937SO 48+87E, L52N	SILT, SD 40% SILT, 30% SD, 30% FRAGS, MIN ORG	B, GOOD	30 CM, BANK BRN SILT - FRAGS	GOOD > S MV2	LIM, GRY ANG BO, 80% CTB	20	0.9	0.5	50	31	193	113	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683936SO 49+01E, L52N	CLAY, SILT 10% CLAY, 30% SILT, 60% ORG	AB, POOR	20 CM, GRY BLK CLAY - SILT	GOOD > W MV1	GRY ANG BO ARG, CTB, MIN LIM	23	0.5	<0.5	36	16	81	56	<2
683935SO 49+12E, L52N	CLAY, SILT, GRAV 10% CLAY, 30% SILT, 50% HETRO FRAGS, GEN OXID CTB, 10% ORG	STONEY B, POOR	25 CM, BRN CLAY - FRAGS	GOOD > S MV1	LIM, GRY ANG BO, 80% CTB	17	0.8	<0.5	41	16	99	56	<2
683934SO 49+25E, L52N	CLAY, SILT 15% CLAY, 75% SILT, 5% ORG, 5% LIM ARG FRAGS	B, FAIR	50 CM, ORGE BRN CLAY - FRAGS	GOOD > SE MV1	LIM, GRY ANG BO, 80% CTB	22	0.2	<0.5	35	18	78	82	2
683933SO 49+37E, L52N	SILT, SD, FRAGS 10% SILT, 40% SD, 50% FRAGS OF GRY CTB	STONEY B, POOR	25 CM, BRN SILT - FRAGS	GOOD > S MV1	ABUND LIM CTB BO C/W QTZ VN; GRY ARG BO	18	1.7	1.6	94	39	195	178	2
683932SO 49+51E, L52N	CLAY, SILT 15% CLAY, 75% SILT, 5% ORG, 5% LIM CTB FRAGS	B, FAIR	50 CM, BANK ORGE BRN CLAY - SILT	GOOD > SE MV1	ABUND LIM CTB BO C/W QTZ VN; GRY ARG BO	26	0.4	<0.5	29	7	29	18	<2
683930SO 49+62E, L52N	SILT, SD 70% SILT, 25% SD, 5% ORG	B, GOOD	25 CM, BRN CLAY - SILT	GOOD > S MV1	80% CTB, 20% ARG BO	31	0.4	<0.5	35	19	80	109	3
683929SO 49+75E, L52N	CL, SILT 60% CLAY, 40% SILT	B, GOOD	25 CM, BRN CLAY - SILT	GOOD > S MV1	HETRO, LIM BO OF CTB ARG IN AREA	58	0.8	<0.5	51	18	82	129	4
683926SO 49+86E, L52N	SILT, SD 20% SD, 40% SILT, 40% FRAGS OF CTB, ARG, QTZ SOM LIM	B, GOOD	25 CM, BRN SILT- FRAGS	GOOD > S MV1	HETRO, LIM BO OF CTB , ARG IN AREA	15	0.7	0.5	61	18	143	150	3
683972SO 50+12E, L52N	MOSS MAT SAMPLE - SILT, ORG 20% SILT, 80% ORG	A B, POOR	10 CM GRY SILT	GOOD > S MV1	MAINLY ARG BO	15	0.7	1.1	60	22	199	168	3
683970SO 50+24E, L52N	CLAY, SILT 30% CLAY, 60% SILT, 10% ORG	B, GOOD	25 CM ORGE BRN BLK CLAY - SILT	GOOD > S MV1	LIM & GRY ARG BO SOM CTB SOM CTB, QTZ VN MAT	13	0.5	<0.5	34	21	94	172	2
683969SO 50+37E, L52N	SILT, ORGS 80% SILT, 5% ORG, 15% FRAGS OF ARG, CTB	B, GOOD	30 CM ORGE BRN SILT - FRAGS	GOOD > S MV1	MAINLY ARG BO	12	0.3	<0.5	28	18	93	156	4
683968SO 50+52E, L52N	CLAY, SILT 20% CLAY, 70% SILT, 10% ORG SOM ARG, CTB, QTZ MON BO IN HOLE	STONEY AB, POOR	20 CM BRN CLAY-SILT	GOOD > S MV1	LIM & GRY ARG BO	7	0.5	<0.5	37	12	55	68	2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683967SO 50+63E, L52N	SILT, SD 70% SILT, 10% SD, 5% ORGS, 15% FRAGS INCL CTB, ARG	B, GOOD	30 CM ORGE BRN SILT - FI	GOOD > S MV1	LIM & GRY ARG BO SOM CTB	11	0.5	<0.5	36	17	70	148	5
683966SO 50+75E, L52N	SILT, SD 50% SILT, 45% SD, 5% ORG SOM LIM CTB & QTZ MON IN HOLE	STONEY B, FAIR	25 CM ORGE BRN SILT - SD	GOOD > S MV1	HETRO BO	9	0.4	<0.5	30	13	59	92	<2
683965SO 50+86E, L52N	SILT, SD 25% SILT, 60% SD, 5% ORG, 10% ARG FRAGS	B, GOOD	25 CM RD BRN SILT - FRAGS	GOOD > S MV2	HETRO BO	<5	0.4	<0.5	29	13	51	29	<2
683964SO 51+00E, L52N	SILT, SD 20% SILT, 80% SD SOM HETRO FRAGS IN HOLE	B, WELL	30 CM ORGE BRN SILT - FI	GOOD > S MV2	QTZ MON BO	<5	0.4	<0.5	33	16	64	36	2
683963SO 51+13E, L52N	SILT, SD 35% SILT, 50% SD, 15% HETRO FRAGS IN HOLE	B, WELL	30 CM BANK DK BRN SILT - FRAGS	GOOD > E MV2	SOM QTZ MON BO	<5	0.5	<0.5	29	15	57	31	<2
683962SO 51+22E, L52N	SILT, SD 50% SILT, 45% SD, 5% OXD FRAGS CTB	B, WELL	60 CM BANK ORGE BRN SILT - FRAGS	GOOD > SE MV2	SOM ARG & CTB BO	5	0.3	<0.5	32	17	83	39	<2
683961SO 51+35E, L52N	SILT, SD 65% SILT, 30% SD, 5% OXD FRAGS CTB, ARG SOM QTZ MON	B, WELL	30 CM BANK MED BRN SILT - FRAGS	GOOD > W MV2	SOM ARG & CTB BO	9	0.4	<0.5	29	13	68	29	<2
683960SO 51+53E, L52N	SILT, SD 70% CLAY, 20% SILT, 10% ORG	B, WELL	35 CM ORGE BRN - BRN BLK CLAY - SILT	GOOD > S MV2	SOM ARG & CTB BO	<5	0.3	<0.5	24	8	51	11	<2
683959SO 51+62E, L52N	SD, SILT 30% SILT, 50% SD, 20% HETRO FRAGS - ARG, CTB	B, WELL	30 CM BRN SILT - FRAGS	GOOD > S MV2	SOM ARG & CTB FRAGS IN HOLE	13	0.2	<0.5	24	11	56	89	2
683958SO 51+78E, L52N	SD, SILT 20% SILT, 70% SD, 10% HETRO FRAGS - ARG, CTB	B, WELL	30 CM ORGE BRN SILT - FRAGS	GOOD > S MV2	SOM ARG BO	<5	0.3	<0.5	17	13	75	17	<2
683957SO 51+90E, L52N IN STR BED	SD, SILT 70% SILT, 20% SD, 10% HETRO FRAGS	B, WELL	15 CM YEL BRN SILT - FRAGS	GOOD > S MV2	QTZ MON BO	<5	0.2	<0.5	18	14	80	16	<2
683956SO 52+00E, L52N	SD, SILT 45% SILT, 40% SD, 5% ORG, 10% HETRO FRAGS - QTZ MON, ARG, CTB	B, WELL	35 CM ORGE BRN SILT - FRAGS	GOOD > SW MV2	QTZ MON BO	<5	0.4	<0.5	33	12	54	87	2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683955SO 52+12E, L52N	SD, SILT 25% SILT, 55% SD, 20% QTZ MON FRAGS	B, WELL	20 CM GRY BRN SILT - FRAGS	GOOD > SW MV2	ABUND LARGE QTZ MON BO	<5	0.2	<0.5	11	6	24	4	<2
683954SO 52+21E, 51+96N	SD, SILT 45% SILT, 45% SD, 10% ORG; FRAGS OXID ARG IN HOLE	B, POOR	25 CM ORGE BRN SILT - FI	GOOD > SW MV3	ABUND LARGE QTZ MON BO	<5	0.9	<0.5	12	9	31	2	<2
683953SO 52+62E, L52N	SD, SILT 35% SILT, 45% SD, 20% ORG	B, MOD WELL	30 CM DK BLK SILT - FI	GOOD > SW MV3	BO QTZ MON IN HOLE	<5	0.2	<0.5	24	5	31	2	<2
683952SO 52+75E, L52N	*SD, SILT* 45% SILT, 45% SD, 10% ORG; FRAGS OXID ARG IN HOLE	*B, POOR*	*25 CM* ORGE BRN SILT - FI	*GOOD > SW* MV3	*MINOR QTZ MON BO*	*<5*	*<0.2*	*<0.5*	*34*	*8*	*59*	*10*	*<2*
683951SO 53+00E, L52N	SD, SILT 40% SILT, 50% SD, 10% ORG; FRAGS QTZ MON IN HOLE	B, POOR	25 CM ORGE BRN SILT - FI	GOOD > SW MV2	MINOR QTZ MON BO	6	0.5	<0.5	23	10	42	26	<2
LINE 53N (W TO E)													
683729SO 48+83E, L53N W OF HWY SHOW CRK	SILT, SD 75% SILT, 20% SD, 5% ORG	A,B GOOD	30 CM, BANK DK BRN SILT - FI	GOOD > S MV1	BELOW CTB OC	<5	0.7	2.4	123	25	81	14	<2
683730SO 49+00E, L53N W BANK OF HWY SHOW CR	SILT, SD 70% SILT, 20% SD, 10% ORG	B, GOOD	30 CM, BANK DK BRN BLU SILT - FI	GOOD > S MV1	ABUNDANT ARG, TUFF BREC LIM & GRY BO IN CRK	<5	1	<0.5	48	8	37	2	<2
683728SO 49+28E, L53N	SILT, SD 60% SILT, 30% SD, 5% ORG, 5% FRAGS - OXID TUFF BREC & ARG	B, GOOD	20 CM, BANK BRN SILT - FRAGS	GOOD > W MVI	ANG BO ALT & FR ARG & TUFF BREC	52	0.6	0.6	92	47	202	180	4
683727SO 49+37.5E, L53N	AS 683728SO					75	1.3	2.2	112	54	271	240	2
683725SO 49+52E, L53N	SILT SD 60% SILT, 30% SD, 10% HETRO FRAGS MIN ORG	B, GOOD	30 CM, BRN	GOOD > S MV1	SOM BO ARG & TUFF BREC	121	1.6	1.4	104	48	220	219	<2
683724SO *49+62.5E, L53N*	SILT *90% SILT, 10% ORG*	A, B, C, POOR DEV	30 CM, *RD BLK* SILT	POOR > S MV1	SOM BO ARG & TUFF BREC	42	<0.2	<0.5	25	14	54	55	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683723SO 49+75E, L53N	SILT 90% SILT, 10% ORG	A, B, C, POOR DEV	30 CM, RD BLK SILT	POOR > S MV1	SOM BO ARG & TUFF BREC, GEN OXID	17	0.4	<0.5	34	13	47	47	<2
683722SO 49+87.5E, L53N	CLAY, SILT 40% CLAY, 50% SILT, 10% ORG	B, GOOD	35 CM, RD BLK CLAY - SILT	POOR > S MV1	BO ARG & TUFF BREC, GEN OXID	30	0.4	<0.5	44	17	87	78	<2
683869SO 50+24E, L53N E BK OF E CRK	SILT, SD 30 % SILT, 50% SD, 20% ANG FRAGS TUFF BREC & MINOR ARG	STONEY B, MOD	40 CM, DK BRN SILT- FRAGS	GOOD > W TO E CRK MV1	ANG BO OF LIM ARG & TUFF BREC	32	<0.2	<0.5	58	26	128	188	4
683868SO 50+37E, L53N	CL, SILT, SD 50% CL, 30 % SILT, 15% SD, 5% ORG	STONEY B, POOR	35 CM, DK BRN CLAY - FI	GOOD > S MV1	SPARSE BO ANG FRAGS OF LIM ARG & TUFF BREC IN HOLE	16	<0.2	<0.5	35	23	100	148	2
683867SO 50+50E, L53N	SILT, SD 50% SD, 30% SILT, 20% FRAGS OF CTB	B, MOD GOOD	25 CM, RD BRN SILT - FRAGS	GOOD > S MV1	LARGE CRST TUFF BREC BO	7	<0.2	<0.5	34	13	86	107	<2
683864SO 50+62E, L53N	CL, SILT, 60% CL, 30% SILT, 10% ANG LIM FRAGS OF ARG & TUFF BREC	STONY B, GOOD	30 CM, BRN - ORGE CLAY - FRAGS	GOOD > S MV1	BO TUFF BREC, ARG ABUNDANT	11	<0.2	<0.5	30	13	65	98	2
683863SO 50+72E, L53N	SILT, SD 40% SILT, 30% SD, 20% OXID FRAGS, 10% ORG FRAGS WK LIM, WELL SIL TUFF BREC, ARG	A, B, POOR	20 CM, BRN BLK SILT- FRAGS	GOOD > S MV1	BO TUFF BREC, ARG	14	<0.2	<0.5	32	22	103	150	<2
683862SO 50+86E, L53N W SIDE DRY CRK	CL, SILT 45% CL, 45% SILT, 10% FRAGS OF OXID LIM CRYST TUFF	B, GOOD	50 CM, GRY BRN CLAY - FRAGS	GOOD > S MV1	BO TUFF BREC, ARG	14	<0.2	<0.5	28	16	65	118	2
683861SO 51+00E, L53N	CL, SILT, SD 5% CL, 80% SILT, 15% SD,	B, GOOD	30 CM, ORGE - RD BRN CLAY - FI	GOOD > S MV1	GRANITE & LIM SIL TUFF BREC BO	6	<0.2	<0.5	32	21	70	31	<2
683859SO 51+12E, L53N	SILT, SD 50% SILT, 45% SD, 5% HETRO FRAGS INCL QTZ MON	B, GOOD	30 CM, ORGE BRN SILT - FRAGS	GOOD > S MV1	NO APPARENT GEOLOGY	6	1.2	<0.5	33	16	56	24	<2
683858SO 51+23E, L53N	SILT, SD 50% SILT, 45% SD, 5% HETRO FRAGS INCL QTZ MON	B, GOOD	25 CM, ORGE BRN SILT - FRAGS	GOOD > S MV2	APPARENT QTZ MON TERRAIN	<5	4.2	<0.5	29	16	41	24	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683857SO 51+37E, L53N	SILT, SD 70% SILT, 25% SD, 5% QTZ MON FRAGS	B, GOOD	25 CM, GRY BRN SILT - FRAGS	GOOD > S MV2	APPARENT QTZ MON TERRAIN	<5	0.8	<0.5	20	10	36	23	2
683855SO 51+50E, L53N	SILT, SD 70% SILT, 25% SD, 5% QTZ MON FRAGS	B, GOOD	25 CM, GRY BRN SILT - FRAGS	GOOD > S MV2	QTZ MON BO	<5	1.2	<0.5	34	14	67	20	<2
683856SO 51+62E, L53+07N	SILT, SD 50% SD, 40% SILT, 10% ORG	B, GOOD	25 CM, BRN SILT - FI	POOR > E MV2	APPARENT QTZ MON TERRAIN	<5	0.4	<0.5	17	19	44	18	<2
683854SO 51+72E, 52+97N	SILT, SD 70% SILT, 25% SD, 5% HETRO FRAGS INCL QTZ MON, OXID TUFF BREC & ARG	B, GOOD	25 CM, GRY BRN SILT - FRAGS	GOOD > S MV2		6	<0.2	<0.5	24	14	40	23	<2
683852SO 51+72E, 52+97N	CL, SILT 20% CL, 70% SILT, 10% ORG	B, GOOD	20 CM, ORGE BRN SILT - FI	GOOD > S MV2	APPARENT QTZ MON TERRAIN	5	0.2	<0.5	19	35	65	23	2
683851SO 51+97E, 52+ 99N	SILT, SD 50% SILT, 20% SD, 30% ORG	A, B, POOR	40 CM, BRN BLK SILT - FI	GOOD > W MV2	APPARENT QTZ MON TERRAIN	<5	1.2	<0.5	10	6	68	2	<2
LINE 54 (W TO E)													
683824SO 49+16.5E, L54N	CLAY, SILT 10% CLAY, 80% SILT, 10% FRAGS MAINLY OF CTB	B, GOOD	20 CM, BRN CLAY - FRAGS	GOOD > E MV1	BELOW OC OF CTB	6	<0.2	<0.5	310	13	219	14	<2
683827SO 49+25E, L54N	SILT, SD 45% SILT, 45% SD, 5% ORG 5% FRAGS C/W 30% LIM CTB	B, GOOD	30 CM, BRN SILT- FRAGS	GOOD > S MV1	BELOW OC OF CTB	33	1	1	97	42	219	185	<2
683830SO 49+35E, L54N	SILT, SD 60% SILT, 30% SD, 10% HETRO FRAGS C/W 20% LIM TUFF BREC, ARG	STONEY B, FAIR	30 CM, BRN SILT- FRAGS	GOOD > S MV1	HETRO BO, INCL LIM TUFF BREC	160	1.1	1.6	113	50	241	239	<2
683832SO 49+62E, L54N	CLAY, SILT 45% SILT, 10% CLAY, 40% ANG FRAGS INCL LIM TUFF BREC, 5% ORG	STONEY B, GOOD	30 CM, DK BRN CLAY - FRAGS	GOOD > S MV1	HETRO BO, INCL LIM TUFF BREC	37	0.4	<0.5	42	22	70	102	<2
683833SO 49+75E, L54N	CLAY, SILT 60% CLAY, 35 % SILT, 5% ORG	STONEY B, FAIR	25 CM, RD BLK CLAY - SILT	GOOD > S MV1	HETRO GRY BO	18	0.4	<0.5	35	14	49	48	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683834SO 49+89E, L54N	CLAY, SILT 70% CLAY, 20% SILT, 10% ORG	B, GOOD	40 CM, RD BRN CLAY - SILT	GOOD > S MV1	HETRO GRY & LIM BO	57	<0.2	<0.5	34	20	63	76	<2
683836SO 50+12E, L54N	SILT, SD 45% SILT, 45% SD, 5% ORG 5% OXID FRAGS, ARG, SIL TUFF	B, GOOD	15 CM, ORGE BRN SILT - FRAGS	GOOD > S MV1	ABUND LIM CRYST TUFF BO	61	1.5	1	97	50	230	229	3
683703SO 50+25E, 54+03N	CL, SILT 20% CL, 70% SILT, 5% ORGS 5% OXID FRAGS, ARG, SIL TUFF	STONY B, FAIR	20 CM, ORGE BRN CL - SILT	GOOD > S MV1	ABUND LIM CRYST TUFF BO	10	0.4	<0.5	52	12	63	95	2
683837SO 50+37E, L54N	CLAY, SILT, SD 30% CLAY, 40% SILT, 25% SD, 5% OXID FRAGS, ARG, SIL TUFF	STONEY B, FAIR	25 CM, ORGE BRN - RD BLK CLAY - FRAGS	GOOD > S MV1	LIM ANG BO	14	0.3	<0.5	65	14	94	120	<2
683710SO 50+48E, L54N	SILT, SD 80% SILT, 10% SD 10% FRAGS LIM ARG & TUFF BREC	B, GOOD	30 CM, BRN, RD SILT - FRAGS	GOOD > S MV1	HOLE: ALT TUFF, ARG ANG BO TUFF, ARG, OFTEN LIM	9	<0.2	<0.5	84	15	108	172	<2
683838SO 50+62E, L54N	SILT, SD 20% SILT, 60% SD 20% FRAGS LIM ARG & TUFF BREC	B, GOOD	25 CM, ORGE BRN SILT- FRAGS	GOOD > E MV1	HETRO LIM BO ANG BO TUFF, ARG	6	<0.2	<0.5	57	19	104	104	<2
683839SO 50+87E, L54N	SILT, SD 25% SILT, 25% SD 50% ORG	AB, POOR	40 CM, ORGE BRN SILT- FRAGS	GOOD > E MV1	HETRO LIM BO ANG BO TUFF, ARG	11	0.2	<0.5	42	15	104	84	2
683714SO 51E, 53+90N	CLAY, SILT 50% CLAY, 30% SILT, 10% ORG 10% OXID FRAGS, ARG, SIL TUFF, SOM BRN QTZ MON	B, GOOD	30 CM, BLK CLAY - FRAGS	GOOD > S MV1	SOM ARG, TUFF BREC BO WITH SOM LIM	<5	<0.2	<0.5	25	13	64	27	<2
683715SO 51+12E, L54N	CLAY, SILT, SD 25% CLAY, 20% SILT, 40% SD, 15% ORG MIN QTZ MON PEBS	B, POOR	25 CM, BANK BRN - BLK CLAY - FI	GOOD > S MV2	QTZ MON TERRAIN?	<5	<0.2	<0.5	30	13	66	20	2
683716SO 51+24E, L54N	SILT, SD 75% SILT, 20% SD, 5% OXID FRAGS ARG	B, GOOD	30 CM, BANK BRN, PK SILT- FRAGS	GOOD > S MV2	SOM QTZ MON & ARG BO, SOM WITH LIM	<5	<0.2	<0.5	21	25	48	36	2
683840SO 51+37E, L54N	SILT, SD 45% SILT, 45% SD, 10% QTZ MON FRAGS	B, GOOD	20 CM, BANK YEL BRN SILT - FRAGS	GOOD > S MV2	APPARENT QTZ MON TERRAIN C/W 80% QTZ MON BO, 20% TUFF	6	<0.2	<0.5	25	22	70	26	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683718SO 51+48E, L54N	CLAY, SD, GRAV CLAY 60%, SD 20%, FRAGS 20% > LIM QTZ MON, MIN ARG	B, GOOD	20 CM, BANK, BRN CLAY - FRAGS	GOOD > S MV2	SOME QTZ MON, LIM ARG, TUFF IN AREA QTZ MON TERRAIN?	6	<0.2	<0.5	30	14	104	33	2
683841SO 51+62E, L54N	SILT, SD 45% SILT, 45% SD, 10% OXID ARG FRAGS, MIN QTZ MON	B, GOOD	35 CM, BANK YEL BRN SILT - FRAGS	GOOD > W MV2	QTZ MON TERRAIN?	<5	<0.2	<0.5	29	24	44	32	3
683719SO 51+75E, L54N	CLAY, SILT 25% CLAY, 25% SILT, 50% ORG	A, B, GOOD	40 CM, BANK RD BRN ORGE CLAY - FI	GOOD > S MV2	QTZ MON TERRAIN?	<5	0.8	<0.5	10	3	29	10	<2
683842SO 51+87E, L54N	SILT, SD 45% SLT, 35% SD, 20% ORG	B, GOOD	25 CM, ORGE RD SILT - FI	A B, POOR MV2	NONE APPARENT > ASSUMED QTZ MON TERRAIN.	27	1.1	<0.5	12	5	40	8	<2
683843SO 52+00E, L54+06N	SILT, SD 45% SLT, 35% SD, 20% ORG	AB, POOR	25 CM, ORGE RD SILT - FI	A B, POOR MV2	QTZ MON CLIFF 60 M TO NORTH	<5	0.3	<0.5	27	19	40	25	<2
LINE 55N (W TO E)													
683678SO 49+25E, L55N	SILT, SD 80% SILT, 10% SD, 5% ORG 5% FRAGS TUFF BREC	B, GOOD	25 CM, BANK BRN BLK SILT - FRAGS	GOOD > SE MV1	SOM ARG & TUFF BREC BO - LIM & GRY	6	0.7	<0.5	41	15	58	32	<2
683679SO 49+38E, L55N	SILT, SD 60% SILT, 30% SD, 5% ORG 5% FRAGS ARG	B, GOOD	200 CM, BANK ORGE BRN SILT - FRAGS	GOOD > SE TO HWY ZONE CRK MV1	LIM CTB & ARG BO	61	1.2	1.4	91	46	244	212	2
683681SO 49+62E, L55N	SILT 80% SILT, 15% HETRO FRAGS, 5% ORG TUFF BREC AND ARG	B, GOOD	25 CM BRN SILT - FRAGS	GOOD > SW MV1	LIM & GRY CTB BO	102	0.5	1	90	37	199	146	<2
683682SO 49+75E, L55N	CLAY, SILT, SD 10% CLAY, 50% SILT, 35% SD, 5% HETRO FRAGS OF TUFF BREC AND ARG	B, GOOD	25 CM BRN CLAY - FRAGS	GOOD > SE MV1	LIM & GRY BO ARG, TUFF BREC	60	1.1	1.7	106	45	241	195	2
683683SO 49+87E, L55N	SILT, SD 70% SILT, 25% SD, 5% ANG FRAGS LIM, SHEARED TUFF BREC AND ARG	B, GOOD	35 CM ORGE BRN SILT - FRAGS	GOOD > SE MV1	LIM & GRY BO ARG, TUFF BREC	50	1.1	0.6	74	35	177	133	<2
683901SO 50+12E, L55N	CLAY, SILT 60% CLAY, 30% SILT, 5% ORG, 5% LIM ARG FRAGS	B, GOOD	30 CM ORGE BRN CLAY - FRAGS	FAIR > S MV1	LIM CTB & ARG BO & GRY BO	27	0.4	<0.5	34	24	52	34	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683902SO 50+25E, L55N	CLAY, SILT 10% CLAY, 70% SILT, 20% ORG	B-C, POOR	35 CM ORGE BRN CLAY - SILT	GOOD > S MV1	LIM CTB & QTZ MON BO	13	0.3	<0.5	29	11	35	30	<2
683903SO 50+37E, L55N	SILT, SD 60% SILT, 30% SD, 5% ORGS 5% FRAGS TUFF BREC	B, GOOD	30 CM ORGE BRN SILT - FRAGS	GOOD > S MV1	LIM CTB & QTZ MON BO SOM CTB 5% SULFS, INCL ASPY	17	0.9	<0.5	45	17	130	212	2
683904SO 50+50E, L55N	CLAY, SILT, SD 10% CLAY, 60% SILT, 30% SD SHEARED, LIM TUFF BREC FRAGS IN HOLE	B, GOOD	30 CM BRN CLAY - FI	GOOD > S MV1	LIM TUFF BREC BO	<5	0.3	<0.5	39	8	34	38	<2
683905SO 50+62E, L55N	SILT, SD 40% SILT, 55% SD, 5% LIM ARG & TUFF FRAGS	B, GOOD	25 CM ORGE BRN SILT - FRAGS	GOOD > S MV1	LIM TUFF BREC BO	14	1	3.1	52	16	236	140	4
683908SO 50+75E, L55N	SILT, SD 40% SILT, 50% SD, 10% FRAGS OF LIM TUFF BREC	B, GOOD	30 CM, BANK GRY BRN SILT - FRAGS	GOOD > SW TO MIDDLE CRK MV1	LIM CTB & ARG BO	16	0.6	<0.5	64	18	126	163	3
683909SO 50+89E, L54+98N	SILT, SD 70% SILT, 25% SD, 5% FRAGS OF LIM TUFF BREC & ARG	STONY B, GOOD	30 CM, BANK ORGE BRN SILT - FRAGS	GOOD > S MV1	LIM CTB & ARG BO NEAR W BANK OF EAST CRK	11	0.6	0.5	86	15	146	167	3
683692SO 51+37E, L55N	SILT, SD 65% SILT, 25% SD, 5% HETRO FRAGS 5% ORG	B, GOOD	30 CM ORGE BRN SILT- FRAGS	GOOD > S MV1	ARG BO C/W DISSEM ASPY; SOM QTZ VN	82	0.4	<0.5	43	19	72	124	<2
683691SO 51+52E, L55N	SILT, SD 70% SILT, 25% SD, 5% HETRO FRAGS - 50% QTZ MON, 50% LIM ARG	B, GOOD	25 CM ORGE BRN SILT- FRAGS	GOOD > S MV1	QTZ MON & LIM ARG BO	<5	<0.2	<0.5	25	17	57	21	<2
683690SO 51+62E, L55N	SILT, SD 10% SILT, 80% SD, 10% HETRO FRAGS - 50% QTZ MON, 50% LIM ARG	B, GOOD	25 CM BRN, WH SILT- FRAGS	GOOD > S MV2	LIM ARG & QTZ MON BO	<5	<0.2	<0.5	28	22	58	38	<2
683689SO 51+74E, L55N	SILT, SD 40% SILT, 55% SD, 5% LIM QTZ MON FRAGS	STONY B, FAIR	30 CM YEL BRN SILT- FRAGS	GOOD > S MV2	QTZ MON BO	6	<0.2	<0.5	17	11	71	23	<2
683688SO 51+87, L55N	SILT, SD 40% SILT, 40% SD, 20% CTB, FRAGS, MIN QTZ MON FRAGS	B, GOOD	25 CM YEL BRN SILT- FRAGS	GOOD > S MV2	QTZ MON TER?	<5	<0.2	<0.5	18	26	88	28	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683687SO 52E, L55N	SILT, SD 70% SILT, 25% SD, 5% QTZ MON FRAGS	B, GOOD	35 CM RD BRN SILT- FRAGS	GOOD > S MV2	QTZ MON BO	<5	<0.2	<0.5	26	23	40	36	<2
683686SO 52+12E, L55N	SILT, SD 30% SILT, 50% SD, 20% QTZ MON FRAGS	B, GOOD	30 CM GRY SILT- FRAGS	GOOD > S MV2	MIN QTZ MON BO	<5	0.3	<0.5	60	12	19	18	<2
LINE 56N (W TO E)													
683898SO 49+50E, 56+08N	SILT, SD 80% SILT, 15% SD, 5% ARG FRAGS, MIN ORG	B, GOOD	25CM, BANK YEL BRN SILT - FRAGS	GOOD > SE MV1	GRY ARG, TUFF BREC	39	0.8	<0.5	68	21	90	67	<2
683897SO 49+62E, 56+08N	SILT, SD 70% SILT, 20% SD 5% ORG, 5% FRAGS OF ARG & TUFF BREC	STONY B, GOOD	35 CM, W BANK OF HWY SHOW CRK BRN - ORGE BRN SILT - FRAGS	GOOD > S MV1	ABUNDANT ARG, TUFF BREC LIM & GEN GRY BO IN CRK	40	0.7	0.7	58	23	105	75	2
683896SO 49+87E, 56+08N	SILT, ORG 70% SILT, 30% ORG	STONY B, MOD	40CM, BANK BRN SILT	GOOD > S MV1	HETRO BO IN HWY SHOWING CRK	39	0.8	1.2	56	33	165	99	<2
683655SO 50+12E, L56N	SILT, SD 60% SILT, 30% SD, 5% ORG 5% HETRO FRAGS	B, GOOD	15 CM, HILL SIDE ORGE BRN SILT - FRAGS	GOOD > W MV3	NONE APPARENT	22	2.4	<0.5	68	19	103	45	<2
683653SO 50+25E, L56N	SILT, SD 70% SILT, 10% SD, 5% ORG 15% HETRO FRAGS	B, GOOD	20 CM, HILL SIDE YEL BRN SILT - FRAGS	GOOD > W MV3	NONE APPARENT	16	0.3	<0.5	49	35	106	43	<2
683656SO 50+37E, L56N	SILT, SD 45% SILT, 45% SD, 5% ORG 5% HETRO FRAGS	B, GOOD	25 CM, HILL SIDE ORGE BRN SILT - FRAGS	GOOD > E MV1	NONE APPARENT	10	1.1	<0.5	33	23	80	49	<2
683657SO 50+50E, L56N	CL SILT 30% CL, 60% SILT, 10% ORG MIN ARG FRAGS	B, GOOD	25 CM, E HILL SIDE RD BLK SILT - FI	GOOD > E MV1	SOM LIM TUFF BREC BO	11	0.3	<0.5	36	12	36	39	<2
683659SO 50+60E, L56N	SILT, SD 80% SILT, 10% SD, 10% ORG MIN ARG FRAGS	B, GOOD	25 CM, BANK BRN SILT - FI	GOOD > S MV1	SOM LIM TUFF BREC BO	NSS	1	<0.5	31	12	41	33	<2
683660SO 50+75E, L56N	SILT, SD 70% SILT, 25% SD, 5% ORG MIN ARG FRAGS	B, GOOD	35 CM, BANK ORGE BRN SILT - FI	GOOD > SE MV1	SOM LIM TUFF BREC BO	15	1.6	<0.5	71	15	72	67	<2
683662SO 50+87E, L56N	CLAY, SILT, SD 20% CLAY, 50% SILT, 20% SD, 10% ORG & OXD FRAGS	B, GOOD	25 CM, BANK BLK BRN CLAY - FRAGS	GOOD > SW MV1	SOM LIM TUFF BREC BO	12	0.7	<0.5	50	17	102	167	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683664SO 51E, L56N	SILT, SD, GRAVEL 55% SILT, 10% SD, 30% FRAGS - OXID ANG CTB, 5% ORG	B, POOR	25 CM BLK BRN SILT - FRAGS	GOOD > SW MV1	SOM LIM TUFF BREC, ARG BO	16	0.3	<0.5	37	9	27	29	<2
683666SO 51+12E, L56N	CLAY, SILT 40% CLAY, 50% SILT, 10% ARG FRAGS & ORG	B, GOOD	20 CM, BANK BLK BRN CLAY - FRAGS	GOOD > S MV1	SOM LIM TUFF BREC, ARG BO	5	0.3	<0.5	34	13	41	42	<2
683665SO 51+25E, L56N	SILT, SD 70% SILT, 20% SD, 10% FRAGS OF OXD TUFF BREC, ARG	STONY B, GOOD	25 CM, BANK BRN BLK SILT - FRAGS	GOOD > S MV1	SOM LIM TUFF BREC, ARG BO	13	0.4	<0.5	64	18	34	53	<2
683667SO 51+37E, L56N	CLAY, SILT 20% CLAY, 70% SILT, 10% FRAGS OF OXD TUFF BREC, ARG	B, GOOD	25 CM, BANK RD BRN CLAY - FRAGS	GOOD > S MV1	GRY TUFF BREC BO	8	0.5	<0.5	36	11	37	43	<2
683668SO 51+47E, L56N W BANK E CRK	SILT, SD 70% SILT, 10% SD, 20% FRAGS OF OXD TUFF BREC, MIN ARG	B, GOOD	25 CM BRN SILT - FRAGS	GOOD > SE TO E CREEK MV1	LIM TUFF BREC BO	15	0.3	<0.5	76	19	117	145	<2
683670SO 51+76E, L56N	SILT, SD, GRAV 30% SILT, 15% SD, 50% FRAGS OF OXD TUFF BREC, ARG; 5% ORG	STONY B, POOR	30 CM, BANK BRN SILT - FRAGS	GOOD > SW MV1	LARGE OXID BO INCL TUFF BREC	35	<0.2	<0.5	74	24	205	529	<2
683671SO 51+88E, L56N	CLAY SILT 60% CLAY, 30% SILT, 10% ORGS AND FRAGS OF QTZ MON	B, GOOD	25 CM, BANK ORGE BRN - GRY WH CLAY - FRAGS	GOOD > W TO E CREEK MV1	QTZ MON BO	8	0.2	<0.5	22	5	28	14	<2
683672SO 52E, L56N	SILT, SD 60% SILT, 30% SD, 10% ORGS AND FRAGS OF LIM ARG	B, GOOD	25 CM ORGE BRN SILT - FRAGS	GOOD > W TO E CREEK MV2	QTZ MON BO	<5	<0.2	<0.5	31	17	34	84	<2
683673SO 52+12E, L56N	SILT 85% SILT, 15% ORG	B, GOOD	30 CM RD BRN SILT	GOOD > W TO E CREEK MV2	QTZ MON BO	<5	0.5	<0.5	25	10	53	5	<2
683674SO 52+25E, L56N	CLAY, SILT, SD 30% CLAY, 40% SILT, 25% SD, 5% ORG & OXID QTZ MON FRAGS	B, GOOD	25 CM BRN CLAY - FRAGS	GOOD > SE MV2	QTZ MON BO	5	0.2	<0.5	31	17	36	20	<2
683675SO 52+37E, L56N	SD, GRAV 50% SD, 50 FRAGS MAINLY QTZ MON	B, GOOD	25 CM BRN GRY WH FI - FRAGS	GOOD > S MV2	QTZ MON BO SOM TUFF BREC	5	<0.2	<0.5	19	19	91	23	<2

NUMBER, LOCATION	NAME, COMPOSITION	HORIZON, DEVELOPMENT	DEPTH, COLOUR GRAIN SIZE	DRAINAGE, VEGETATION	GEOLOGY	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683676SO 52+50E, L56N	SILT, SD 40% SILT, 60% SD C/W CO GRAINS OF QTZ MON	B, GOOD	25 CM YEL BRN SILT - CO	GOOD > S MV2	QTZ MON BO	<5	<0.2	<0.5	14	12	65	22	<2
683677SO 52+62E, L56N	SILT, SD 30% SILT, 60% SD, 10% FELD GRAINS	B, POOR	15 CM BRN SILT - CO	GOOD > S MV2	QTZ MON BO	12	<0.2	<0.5	13	17	59	21	<2
EAST CREEK SOILS													
683777SO UP CL:383 M N, 8 M E FROM 51+67E, L56N ON EAST CRK	SILT, SD 10% SILT, 80% SD, 10% HETRO FRAGS INCL TUFF BREC, QTZ, SOM QTZ MON	B, MOD GOOD	25 CM BRN SILT - FRAGS	GOOD > SW MV3	ALT CTB	16	<0.2	<0.5	58	28	129	145	<2
HWY ZONE CRK													
683797SO 212 M UP CL 6 M E HWY ZONE CRK FROM L56+08N	*CLAY SILT TALUS FINES* 10% CLAY, 50% SILT, 40% FRAGS - LIM, JAR/AL	*TALUS FINES*	3 M BANK YEL BRN CLAY - FRAGS	*GOOD > SE* CRK CANYON	*LIM, JAR/AL ATERATION* ZONE IN CTB	*18*	*<0.2*	*<0.5*	*56*	*29*	*115*	*64*	<2
683796SO 235 M UP CL 5 M E HWY ZONE CRK FROM L56+08N	SILT SD GRAV 20% SILT, 20% SD, 60% OXID PEBS CTB	TALUS FINES	BANK ORGE BRN CLAY - FRAGS	GOOD > SE CRK CANYON	LIM, JAR/AL ATERATION ZONE IN CTB	12	<0.2	<0.5	68	31	76	116	<2

*ABBREVIATIONS

@	AT	M	METER
ABUND	ABUNDANT	MID	MIDDLE
ANG	ANGULAR	MIN	MINOR
ARG	ARGILLITE	MV1	TAG ALDERS, DEVILS CLUB VEGETATION
ASPY	ARSENOPYRITE	MV2	FIR, BIRCH, FERN VEGETATION
BLK	BLACK	MV3	GRASS VEGETATION
BO	BOULDERS	N	NORTH
BREC	BRECCIA	OC	OUTCROP
BRIDG	BRIDGE	ORGE	ORANGE
BRN	BROWN	ORG	ORGANICS
CO	COARSE	OXID	OXIDIZED
C/W	COMPLETE WITH	ppb	PARTS PER BILLION
CL	CONTROL LINE	ppm	PARTS PER MILLION
CRK	CREEK	PEBS	PEBBLES
CTB	CRYSTAL TUFF BRECCIA	PO	PYRRHOTITE
DEG	DEGREES	PY	PYRITE
DEV	DEVELOPED	QTZ	QUARTZ
DISSEM	DISSEMINATED	QTZ MON	QUARTZ MONZONITE
E	EAST	RD	RED
FELD	FELDSPAR	RHY	RHYOLITE
FI	FINE	SIL	SILICIFIED
FLO	FLOW	SD	SAND
FRAGS	FRAGMENTS	SD	SOUTH
GRAV	GRAVEL	SO	SOIL SAMPLE
GRY	GREY	SOM	SOME
HEM	HEMATIZED	STR	STREAM
HWY	HIGHWAY	TRIB	TRIBUTARY
INCL	INCLUDING	VN	VEIN
INTERN	INTERNAL	W	WEST
LG	LARGE	WH	WHITE
LIM	LIMONITIZED	YEL	YELLOW
L	LINE		
MAT	MATERIAL		
MED	MEDIUM		

TABLE A2.1

SOIL SAMPLE LOCATIONS

AND MES ANALYTICAL RESULTS

TABLE A2.1

SOIL SAMPLE LOCATIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES IN BOLD*: SOILPOLYATABA

NUMBER, LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASE LINE 50E (S TO N)								
683976SO	7	**0.7**	<0.5	**59**	**17**	117	**128**	2
683979SO	7	**0.4**	<0.5	**51**	**21**	**135**	**131**	2
683801SO	**19**	<0.2	<0.5	**94**	**20**	**130**	**68**	<2
683802SO	**25**	<0.2	<0.5	**76**	**29**	**175**	**199**	**4**
683803SO	**21**	<0.2	<0.5	**69**	**27**	120	**209**	3
683804SO	**15**	<0.2	<0.5	**62**	**28**	129	**187**	<2
683806SO	**15**	<0.2	<0.5	**45**	**20**	85	**141**	**4**
683807SO	**17**	<0.2	<0.5	33	13	40	**75**	<2
683811SO	**24**	**0.8**	<0.5	**81**	**31**	**169**	**193**	<2
683813SO	**17**	<0.2	<0.5	**64**	**27**	**153**	**177**	<2
683816SO	**12**	<0.2	0.5	**64**	**27**	**218**	**186**	<2
683817SO	**22**	<0.2	<0.5	**73**	**23**	**178**	**182**	<2
683818SO	**17**	<0.2	<0.5	**68**	**26**	**162**	**189**	2
683720SO	**33**	<0.2	<0.5	**56**	**26**	**137**	**213**	<2
683819SO	8	<0.2	<0.5	40	**25**	81	**40**	<2
683820SO	**13**	0.3	<0.5	38	**15**	40	**63**	<2
683821SO	**17**	0.3	<0.5	40	**15**	53	**58**	<2
683702SO	**36**	<0.2	<0.5	**45**	**26**	72	**138**	<2
683844SO	**132**	0.3	<0.5	32	12	48	22	<2
683876SO	**58**	0.2	<0.5	**63**	**40**	**150**	**173**	<2
683875SO	**50**	<0.2	<0.5	**49**	**36**	129	**179**	<2
683883SO	**47**	<0.2	<0.5	**59**	**46**	**145**	**226**	<2
683885SO	<5	<0.2	<0.5	39	**20**	58	**63**	2
683887SO	**26**	<0.2	<0.5	42	**20**	82	**62**	<2
683891SO	**79**	**1.3**	<0.5	**48**	**20**	57	**41**	<2
683894SO	**12**	<0.2	<0.5	**47**	**25**	89	**67**	<2
683895SO	**20**	**0.7**	<0.5	44	**20**	73	**62**	3
LINE 51N (W TO E)								
683990SO	**57**	**0.7**	**1.1**	**109**	**30**	**199**	**147**	**4**
683989SO	**53**	**1.4**	**1.3**	**70**	**30**	**154**	**134**	2
683988SO	**38**	**1.3**	**1.8**	**116**	**33**	**223**	**184**	<2
683987SO	**49**	**0.5**	**1.9**	**132**	**37**	**235**	**169**	<2
683986SO	**68**	**1.3**	**1.5**	**102**	**32**	**203**	**171**	<2
683985SO	<5	**0.4**	<0.5	33	14	65	**66**	<2
683984SO	**23**	**0.8**	<0.5	37	**17**	105	**133**	**4**
683980SO	<5	**0.8**	<0.5	**55**	**18**	127	**151**	2

TABLE A2.1 (CON'T)
SOIL SAMPLE LOCATIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES IN BOLD*: SOILPOLYATABA

NUMBER, LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
LINE 52N (W TO E)								
683917SO	9	<0.2	<0.5	**201**	5	103	<2	<2
683921SO	**55**	**1.8**	1	**69**	**34**	**163**	**168**	2
683920SO	**74**	**2.4**	**2.2**	**117**	**40**	**195**	**210**	3
683927SO	**37**	**0.8**	**2**	**56**	**27**	**173**	**126**	2
683923SO	**123**	**2.4**	**2.1**	**73**	**31**	**207**	**157**	3
683925SO	**106**	**1.9**	**2.5**	**85**	**39**	**247**	**208**	**4**
683940SO	**53**	**1.5**	**1.3**	**60**	**38**	**178**	**176**	**4**
683941SO	**52**	**1.5**	**2.1**	**79**	**38**	**227**	**168**	2
683937SO	**20**	**0.9**	0.5	**50**	**31**	**193**	**113**	<2
683936SO	**23**	**0.5**	<0.5	36	**16**	81	**56**	<2
683935SO	**17**	**0.8**	<0.5	41	**16**	99	**56**	<2
683934SO	**22**	0.2	<0.5	35	**18**	78	**82**	2
683933SO	**18**	**1.7**	**1.6**	**94**	**39**	**195**	**178**	2
683932SO	**26**	**0.4**	<0.5	29	7	29	18	<2
683930SO	**31**	**0.4**	<0.5	35	**19**	80	**109**	3
683929SO	**58**	**0.8**	<0.5	**51**	**18**	82	**129**	**4**
683926SO	**15**	**0.7**	0.5	**61**	**18**	**143**	**150**	3
683972SO	**15**	**0.7**	**1.1**	**60**	**22**	**199**	**168**	3
683970SO	**13**	**0.5**	<0.5	34	**21**	94	**172**	2
683969SO	12	0.3	<0.5	28	**18**	93	**156**	**4**
683968SO	7	**0.5**	<0.5	37	12	55	**68**	2
683967SO	**11**	**0.5**	<0.5	36	**17**	70	**148**	**5**
683966SO	9	**0.4**	<0.5	30	13	59	**92**	<2
683965SO	<5	**0.4**	<0.5	29	13	51	**29**	<2
683964SO	<5	**0.4**	<0.5	33	**16**	64	**36**	2
683963SO	<5	**0.5**	<0.5	29	**15**	57	**31**	<2
683962SO	5	0.3	<0.5	32	**17**	83	**39**	<2
683961SO	9	**0.4**	<0.5	29	13	68	**29**	<2
683960SO	<5	0.3	<0.5	24	8	51	11	<2
683959SO	**13**	0.2	<0.5	24	11	56	**89**	2
683958SO	<5	0.3	<0.5	17	13	75	17	<2
683957SO	<5	0.2	<0.5	18	14	80	16	<2
683956SO	<5	**0.4**	<0.5	33	12	54	**87**	2
683955SO	<5	0.2	<0.5	11	6	24	4	<2
683954SO	<5	**0.9**	<0.5	12	9	31	2	<2
683953SO	<5	0.2	<0.5	24	5	31	2	<2
683952SO	<5	<0.2	<0.5	34	8	59	10	<2
683951SO	6	**0.5**	<0.5	23	10	42	**26**	<2

TABLE A2.1 (CON'T)
SOIL SAMPLE LOCATIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES IN BOLD*: SOILPOLYATABA

NUMBER, LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
LINE 53N (W TO E)								
683729SO	<5	**0.7**	**2.4**	**123**	**25**	81	14	<2
683730SO	<5	1	<0.5	**48**	8	37	2	<2
683728SO	**52**	**0.6**	0.6	**92**	**47**	**202**	**180**	4
683727SO	**75**	1.3	**2.2**	**112**	**54**	**271**	**240**	2
683725SO	**121**	**1.6**	**1.4**	**104**	**48**	**220**	**219**	<2
683724SO	**42**	<0.2	<0.5	25	14	54	**55**	<2
683723SO	**17**	**0.4**	<0.5	34	13	47	**47**	<2
683722SO	**30**	**0.4**	<0.5	44	**17**	87	**78**	<2
683869SO	**32**	<0.2	<0.5	**58**	**26**	128	**188**	4
683868SO	**16**	<0.2	<0.5	35	**23**	100	**148**	2
683867SO	7	<0.2	<0.5	34	13	86	**107**	<2
683864SO	11	<0.2	<0.5	30	13	65	**98**	2
683863SO	**14**	<0.2	<0.5	32	**22**	103	**150**	<2
683862SO	**14**	<0.2	<0.5	28	**16**	65	**118**	2
683861SO	6	<0.2	<0.5	32	**21**	70	**31**	<2
683859SO	6	**1.2**	<0.5	33	**16**	56	**24**	<2
683858SO	<5	**4.2**	<0.5	29	**16**	41	**24**	<2
683857SO	<5	**0.8**	<0.5	20	10	36	23	2
683855SO	<5	**1.2**	<0.5	34	14	67	20	<2
683856SO	<5	**0.4**	<0.5	17	**19**	44	18	<2
683854SO	6	<0.2	<0.5	24	14	40	23	<2
683852SO	5	0.2	<0.5	19	**35**	65	23	2
683851SO	<5	**1.2**	<0.5	10	6	68	2	<2
LINE 54N (W TO E)								
683824SO	6	<0.2	<0.5	**310**	13	**219**	14	<2
683827SO	**33**	1	**1**	**97**	**42**	**219**	**185**	<2
683830SO	**160**	**1.1**	**1.6**	**113**	**50**	**241**	**239**	<2
683832SO	**37**	**0.4**	<0.5	42	**22**	70	**102**	<2
683833SO	**18**	**0.4**	<0.5	35	14	49	**48**	<2
683834SO	**57**	<0.2	<0.5	34	**20**	63	**76**	<2
683836SO	**61**	**1.5**	**1**	**97**	**50**	**230**	**229**	3
683703SO	**10**	**0.4**	<0.5	**52**	12	63	**95**	2
683837SO	**14**	0.3	<0.5	**65**	14	94	**120**	<2
683710SO	9	<0.2	<0.5	**84**	**15**	108	**172**	<2
683838SO	6	<0.2	<0.5	**57**	**19**	104	**104**	<2
683839SO	11	0.2	<0.5	42	**15**	104	**84**	2
683714SO	<5	<0.2	<0.5	25	13	64	**27**	<2
683715SO	<5	<0.2	<0.5	30	13	66	20	2
683716SO	<5	<0.2	<0.5	21	**25**	48	**36**	2
683840SO	6	<0.2	<0.5	25	**22**	70	**26**	<2
683718SO	6	<0.2	<0.5	30	14	104	**33**	2
683841SO	<5	<0.2	<0.5	29	**24**	44	**32**	3
683719SO	<5	**0.8**	<0.5	10	3	29	10	<2
683842SO	**27**	**1.1**	<0.5	12	5	40	8	<2
683843SO	<5	0.3	<0.5	27	**19**	40	**25**	<2

TABLE A2.1 (CON'T)
SOIL SAMPLE LOCATIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES IN BOLD*: SOILPOLYATABA

NUMBER, LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
LINE 55N (W TO E)								
683678SO	6	**0.7**	<0.5	41	**15**	58	**32**	<2
683679SO	**61**	**1.2**	**1.4**	**91**	**46**	**244**	**212**	2
683681SO	**102**	**0.5**	**1**	**90**	**37**	**199**	**146**	<2
683682SO	**60**	**1.1**	**1.7**	**106**	**45**	**241**	**195**	2
683683SO	**50**	**1.1**	0.6	**74**	**35**	**177**	**133**	<2
683901SO	**27**	**0.4**	<0.5	34	**24**	52	**34**	<2
683902SO	**13**	0.3	<0.5	29	11	35	**30**	<2
683903SO	**17**	**0.9**	<0.5	**45**	**17**	**130**	**212**	2
683904SO	<5	0.3	<0.5	39	8	34	**38**	<2
683905SO	**14**	1	**3.1**	**52**	**16**	**236**	**140**	**4**
683908SO	**16**	**0.6**	<0.5	**64**	**18**	126	**163**	3
683909SO	**11**	**0.6**	0.5	**86**	**15**	**146**	**167**	3
683692SO	**82**	**0.4**	<0.5	43	**19**	72	**124**	<2
683691SO	<5	<0.2	<0.5	25	**17**	57	21	<2
683690SO	<5	<0.2	<0.5	28	**22**	58	**38**	<2
683689SO	6	<0.2	<0.5	17	11	71	23	<2
683688SO	<5	<0.2	<0.5	18	**26**	88	**28**	<2
683687SO	<5	<0.2	<0.5	26	**23**	40	**36**	<2
683686SO	<5	0.3	<0.5	**60**	12	19	18	<2
LINE 56N (W TO E)								
683898SO	**39**	**0.8**	<0.5	**68**	**21**	90	**67**	<2
683897SO	**40**	**0.7**	**0.7**	**58**	**23**	105	**75**	2
683896SO	**39**	**0.8**	**1.2**	**56**	**33**	**165**	**99**	<2
683655SO	**22**	**2.4**	<0.5	**68**	**19**	103	**45**	<2
683653SO	**16**	0.3	<0.5	**49**	**35**	106	**43**	<2
683656SO	**10**	1.1	<0.5	33	**23**	80	**49**	<2
683657SO	11	0.3	<0.5	36	12	36	**39**	<2
683659SO	NSS	1	<0.5	31	12	41	**33**	<2
683660SO	**15**	**1.6**	<0.5	**71**	**15**	72	**67**	<2
683662SO	**12**	**0.7**	<0.5	**50**	**17**	102	**167**	<2
683664SO	**16**	0.3	<0.5	37	9	27	**29**	<2
683666SO	5	0.3	<0.5	34	13	41	**42**	<2
683665SO	13	**0.4**	<0.5	**64**	**18**	34	**53**	<2
683667SO	8	**0.5**	<0.5	36	11	37	**43**	<2
683668SO	**15**	0.3	<0.5	**76**	**19**	117	**145**	<2
683670SO	**35**	<0.2	<0.5	**74**	**24**	**205**	**529**	<2
683671SO	8	0.2	<0.5	22	5	28	14	<2
683672SO	<5	<0.2	<0.5	31	**17**	34	**84**	<2
683673SO	<5	**0.5**	<0.5	25	10	53	5	<2
683674SO	5	0.2	<0.5	31	**17**	36	20	<2
683675SO	5	<0.2	<0.5	19	**19**	91	23	<2
683676SO	<5	<0.2	<0.5	14	12	65	22	<2
683677SO	**12**	<0.2	<0.5	13	**17**	59	21	<2

TABLE A2.1 (CON'T)
SOIL SAMPLE LOCATIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS WITH ANOMALOUS VALUES IN BOLD*: SOILPOLYATABA

NUMBER, LOCATION	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
EAST CREEK SOILS								
683777SO	**16**	<0.2	<0.5	**58**	**26**	129	**145**	<2
HWY ZONE CRK								
683797SO	**18**	<0.2	<0.5	**56**	**29**	115	**64**	<2
683796SO	**12**	<0.2	<0.5	**68**	**31**	76	**116**	<2
OLD HWY 37A 2000 SAMPLES								
759863SO	**30**	**0.8**	**1.5**	**78**	**26**	**198**	**120**	<2
759864SO	**10**	0.2	0.5	**47**	**16**	**140**	**54**	<2
759865SO	**15**	**0.6**	0.5	**59**	**22**	**152**	**110**	<2
759866SO	**30**	**0.8**	**1.5**	**75**	**30**	**200**	**146**	<2
759869SO	**70**	**0.4**	**1.5**	**64**	**22**	**170**	**98**	<2
759870SO	**15**	**0.6**	<0.5	**63**	**34**	**160**	**98**	<2
759871SO	**65**	**1**	0.5	**84**	**28**	**180**	**150**	<2
759873SO	**20**	**0.4**	0.5	**51**	**18**	**144**	**86**	<2
759874SO	**40**	**1**	<0.5	**71**	**24**	**156**	**140**	<2
759877SO	**260**	**0.6**	<0.5	**60**	**22**	120	**138**	<2
759879SO	**25**	**1.2**	<0.5	**55**	14	**130**	**150**	<2
759880SO	**20**	0.2	<0.5	35	12	84	**116**	<2
759881SO	**10**	0.2	<0.5	44	**18**	118	**76**	<2
759882SO	<5	<0.2	<0.5	41	14	124	**32**	<2
759883SO	5	0.2	<0.5	41	14	80	**68**	<2
759884SO	<5	0.2	<0.5	34	12	74	12	<2
759885SO	<5	<0.2	<0.5	**47**	**16**	**130**	**28**	<2
759886SO	**10**	**0.4**	<0.5	**51**	**16**	72	**96**	<2

*ANOMALOUS VALUES BASED ON GEOFINE REGIONAL THRESHOLD CRITERA OF 10 ppb Au, 0.4 ppm Ag, 0.7 ppm Cd, 45 ppm Cu, 15 ppm Pb, 130 ppm Zn, 24 ppm As, 4 ppb Sb

8.B.2.2. SILVER, CADMIUM SOIL GEOCHEMISTRY (TABLE A2.1, MAP A2.2):

Most of the higher anomalous soil silver values (Table A2.1) are located west of BL50E, in the area of Highway Zone Creek (Map A2.2). They exhibit good correlation with the main soil gold and the main soil copper, lead, zinc and arsenic anomalous zones, which are described below. Such correlation includes the broadening of the silver anomalies in the southwest area of the grid (Table A2.1, Map A2.2).

Anomalous soil silver values (up to 1.6 ppm) in the vicinity of Middle Creek on L56N and L55N (Map A2.2) correlate with weakly anomalous soil gold values. The weaker anomalous soil silver zones (0.4 – 0.6 ppm) can be broad e.g., on L52N, extending well east of East Creek. However, they generally lack correlation with anomalous gold values. A peculiar anomalous zone, with up to 4.2 ppm silver and with some anomalous lead correlation on L53N, is located near the interpreted contact of the quartz monzonite pluton and Hazelton Group rocks

Most of the soil cadmium anomalies tend to be located west of BL50E in proximity to Highway Zone Creek (Map A2.2, Table A2.1). They are limited in extent on L53N-L56N, but also broaden out on L51N and L52N, and along the CL on old Hwy 37A. They show good correlation with the core of main silver and gold anomalous zones referenced above.

8.B.2.3. COPPER SOIL GEOCHEMISTRY (TABLE A2.1; MAP A2.3):

The soil copper anomalies (Table A2.1) are outlined by the 45 ppm contour on Map A2.3. As with the gold, silver and cadmium anomalies referenced above, most anomalous copper values are located west of the BL50E. The Highway Zone Creek area is almost completely encompassed by an anomalous copper zone outlined by the 60 ppm contour, and which contains the highest copper soil values on the grid. This zone thus shows excellent correlation with the main gold, silver and cadmium zones referenced above and the lead, zinc and arsenic zones referenced below, particularly the area of the postulated inflection in the bedrock in the southwest area of Highway Zone Creek. In the area of L51N, the soil copper zone as outlined by the 60 ppm contour has an apparent width of over 200 m.

The anomalous soil copper zones also extend northeast from BL50E, where they correlate with the northeast grid segments of Middle and East Creek, which are enveloped by the 60 ppm copper contour. The areas are considered of interest because of the correlation of anomalous copper with other anomalous soil values e.g., gold, silver, lead and arsenic.

8.B.2.4. LEAD SOIL GEOCHEMISTRY (TABLE A2.1, MAP A2.4):

Anomalous soil lead values (Table A2.1) are outlined by the 15 ppm contour on Map A2.4. The area of Highway Zone Creek on the grid is almost completely enveloped by an anomalous, north trending lead soil zone, as outlined by the 25 ppm contour, with widths ranging between 40 and 90 m. The anomalous soil lead zone is up to over 100 m wide south of L56N and broadens to over 200 m in the southwest corner of the grid, in the area of the warp in the main branch of the creek. The zone also shows excellent correlation with the anomalous soil gold, copper, silver

and cadmium zones as discussed above.

On the east side of the grid, the anomalous lead zones as outlined by the 15 ppm contour comprise linear and branching bands, the broadest of which almost completely envelops Middle and East Creek. A south trending branch off this zone shows good correlation with the aforementioned soil silver anomaly on L53N.

8.B.2.5. ZINC SOIL GEOCHEMISTRY: (TABLE A2.1; MAP A2.5):

The anomalous soil zinc values (Table A2.1) as outlined by the 130 ppm contour comprise one main zone located in proximity to Highway Zone Creek (Map A2.5). The zone shows good correlation with the gold, copper, silver, cadmium and lead anomalous zones in proximity to Highway Zone Creek, as referenced above and including the broadening in the southwest area of the grid. Its interpreted width varies between about 30 m south of L56N to over 200 m in the vicinity of L51N and old Hwy 37A.

A smaller, north trending zone of anomalous zinc values is centred on BL50E between L52N and L53N. The zone has direct correlation with more extensive soil gold, copper, lead and arsenic anomalous zones. Some anomalous zinc values are also found in the northern East Creek and Middle Creek areas, where other anomalous element signatures, as described above, are located.

8.B.2.6. ARSENIC, ANTIMONY SOIL GEOCHEMISTRY (TABLE A2.1, MAP A2.6):

As shown on Map A2.6 and Table A2.1, soil arsenic anomalies as outlined by the 24 ppm contour are rather ubiquitous on the grid. However the main anomalous zone as outlined by the 100 ppm contour almost completely encompasses the grid areas of Highway Zone Creek, Middle Creek and East Creek. In the Highway Zone Creek area, the main zone has excellent correlation with the other anomalous multi element signatures referenced above, including the broadening in the southwest area of the grid. The zone, like most others, also broadens in the area of BL50E, between L54 and 55N, where it branches to the northeast up East Creek and Middle Creek and to the south, down East Creek. The zone is postulated to be rather definitive of all target areas on the grid – i.e., areas that are recommended for IP surveying in Section 9.

Soil antimony anomalies are sparse on the grid (Table A2.1, Map A2.6), but do occur in proximity to the interpreted structures controlling the creeks. For example, some individual, weak anomalies are found on L51N, one in the vicinity of the east branch of Highway Zone Creek and one near East Creek. On L52N, two weak anomalies are found in close proximity to Highway Zone Creek, and two others are found in some proximity to East Creek. On L53N, one weak anomaly is found in proximity to Highway Zone Creek and one is found in proximity to East Creek. On L55N, one weak anomaly is found in proximity to Middle Creek.

8.B.2.7. SIGNIFICANCE OF THE SOIL GEOCHEMICAL SURVEY:

The results of the soil survey are interpreted to confirm those of the stream sediment survey: i.e., the Highway Zone Creek area is the main target area on the grid. This conclusion is based on the excellent correlation of the strongest soil gold, silver, cadmium, copper, lead, zinc and arsenic anomalous zones, located in proximity to the full extent of the creek on the grid. The correlation continues to the southwest area of the grid where the structural fabric, as described in Sections 8.C. and 8.D. is interpreted to have provided a favourable depositional environment for gold and base metals. The anomalous MES in the soil and stream sediment samples is one of the most consistent and complete Geofine has encountered in the Stewart Camp. The presence and correlation of three key indicator elements i.e., lead, zinc and arsenic, along with gold, silver, and copper make it particularly attractive.

The correlation of anomalous MES soil values in the grid areas of upper East Creek and Middle Creek and middle and lower East Creek are suggestive of additional, but lower priority targets. The targets in the grid area are further enhanced when the attributes of the Highway Showing as described in Section 7.C (Map A2) are referenced.

The results of the soil and stream sediment samples could also be interpreted to be only indicative of an important, up-stream gold source, such as a large Highway Zone Creek Showing deposit, located over 900 m north of old Hwy 37A. The mechanical and chemical erosion of such a deposit over a period of time by the high energy Highway Zone Creek and its tributaries could conceivably have dispersed the MES down slope, such that soils were contaminated.

However, it is difficult to perceive that in such a process the MES would be so complete and consistent in soil samples some distance from the creek. High-energy flow regimes in Highway Zone Creek and it tributaries entail erosion of the mountainside, not deposition. If the latter process was dominant, zinc as a mobile element and a metal closely associated with the Highway Zone Creek Showing type mineralization, should be much more widespread in anomalous concentrations. Moreover, the Highway Zone Creek mineralization is not currently known to constitute a substantial target; and, there appears to be a cut-off in the very strong stream sediment MES and the amount of mineralization found in the creek north of L56N. Other evidence indicative of the importance of the grid area of Highway Zone Creek is provided via the rock geochemistry referenced in Section 8.B.3., the geological information referenced in Section 8.C., and the vertical field magnetic data in Section 8.D.

8.B.3. ROCK GEOCHEMICAL SURVEYS (TABLES A3, A3.1, A3.2, A3.3; MAPS A3, A3.1).

The rock geochemical survey (Map A3) focused mainly on the ubiquitous, mineralized, angular float and sub crop boulders in creeks (Photo 8) and on grid lines (Photo 9); and, on altered and mineralized outcrops where available i.e., mainly in the upper target area north of the grid (Photos 10, 12). Such sulfidized and silicified boulders and outcrop are often identified by their limonite and jarosite/alunite oxidation and often required extraction from the A-B soil horizon. The boulders range from cm scale up to over 3 X 2 X 2 m (Photo 9).

Representative sampling of the boulders and outcrop was carried out to classify mineralization types and to determine their relative importance. The 134 composite samples (Map A3) were analysed for gold (FA/AA) and 34 additional elements (ICP) at ALS Chemex Laboratories in Vancouver. The sample descriptions are provided in Table A3, along with the mineralization types and the MES analyses. The samples are listed by location and mineralization type in Table A3.1, along with the anomalous MES values, which are indicated in bold. The complete analytical results are shown in the Chemex Certificates of Analysis in Appendix A.

The mineralization types and corresponding elemental signatures so identified are:

Mineralization Type:	**Elemental Signature:**
Type 1: Highway Zone (pyrite, arsenopyrite, sphalerite, chalcopyrite, galena)	**Au, Ag, Cd, Cu, Pb, Zn, As, Sb**
Type 2: Pyrite (pyrite/arsenopyrite)	**Au, Ag, As, Sb +/- Cu, Pb, Zn**
Type 3: Pyrrhotite (pyrrhotite +/- chalcopyrite, pyrite)	**Cu +/- Au, Ag, As, Sb**
Type 4: Specular Hematite or Spec	**+/- Au, Cu**

Based on the MES threshold criteria (MESTC; Section 8.B.) developed by Geofine in Hazelton Group terrain in the Stewart Camp, 28% of the rock samples contain anomalous Au; 74% anomalous Ag; 17% anomalous Cd; 56% anomalous Cu; 16% anomalous lead; 10% anomalous Zn; 32% anomalous As; and, 27% anomalous Sb.

Type 3 (Photo 11) is the most abundant (49%) of the mineralized samples collected and accounts for 27% of the anomalous gold values. However, it usually lacks anomalous arsenic and antimony, thus explaining its generally weaker gold contents (up to 795 ppm in sample 683828RF). However, chalcopyrite is often associated with the type, and 65% of the samples have anomalous copper contents. Strongly sulfidized samples can have significant copper contents but low gold contents e.g., samples 683947RF and 683948RF have respective gold and copper contents of 22 ppb and 4310 ppm, and 37 ppb and 4660 ppm (Table A3.1). As shown in Table A3.2, most of the Type 3 mineralization was found in crystal tuff breccia, crystal tuff breccia with quartz vein material, and quartz vein material. Pyrrhotite is the main sulfide and generally occurs as fine disseminations to coarse brassy grains and lenses. Chalcopyrite often rims the pyrrhotite grains or occurs as patchy inclusions. The pyrrhotite can also comprise stringers, veins and stockworks and semi massive matrix material in breccia veins and fracture fillings. The magnetic variety predominates and associated minerals often include ankerite, fuchsite and chlorite

PHOTO 8

ANGULAR, OXIDIZED (LIMONITE, JAROSITE/ALUNITE) MINERALIZED BOULDERS IN UPPER HIGHWAY ZONE CREEK

PHOTO 9

ALTERED CRYSTAL TUFF BRECCIA BOULDER, EAST CREEK, POLY GRID

PHOTO 11

TYPE 3 MINERALIZATION: PYRRHOTITE, CHALCOPYRITE, IN SAMPLE 683948RF (37 ppb Au, 4660 ppm Cu) UPPER HIGHWAY ZONE CREEK

TABLE A3:

ROCK SAMPLE DESCRIPTIONS

AND MES ANALYTICAL RESULTS

TABLE A3:
MINERALIZED ROCK SAMPLE DESCRIPTIONS AND MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS
CSVI MODFTABF

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	SELECTED ANALYTICAL RESULTS AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASE LINE 50E (S TO N)												
683977RF BL 50E, 49+50N	ALT ARG 15 X 13 CM ANG BO 50% QTZ 5% CHL 2% LIM 3-4% CARB 35% FELD 3-5% SULFS	W: BUFF GRN GRY F: DK GRY - BLK	FI - APHAN - CO EARTHY	TYPE 3 WK LIM, WELL SIL, STR MAG, WK FR BLEB TO FI PO IN VN TO 3MM & AS FI DISSEM 1-2 MM QTZ CRYST	<5	<0.2	<0.5	70	5	110	<2	<2
683978RF BL 50E, 49+50N	CHL ARG 16 X 10 CM ANG BO 40% QTZ 20% CHL 30% FELD 4-5% SULF 5% LIM	W: GRY BRN ORG BRN F: DK GRY - ORG	FI, EARTHY, PLATY VUGGY	TYPE 2 MOD SIL, WELL SHEARED - CHL SLIPS C/W PY WELL DEV STWK OF QTZ VN, STRINGS TO 1 CM SOM BNDED QTZ VN - ARG, LIM, QTZ WK MAG, NO CARB 4-5% PY, TR CPY, MIN PO DISSEM SULFS & IN QTZ VN	8	0.6	<0.5	24	12	26	351	5
683805RF REP 21 BL 50E, 50+78N	ALT CRYST TUFF BREC 20 X 10 CM ANG BO 60% QTZ 25% FELD 5% FUCHS 3-4% PO 3% CHL 3% ANK	W: ORG BRN - PURP BRN F: DK GRY - ORG	FI - CO, FRAG 15% QTZ CRYSTS IN MATRIX	TYPE 3 WELL LIM, MN, SIL WK MAG, BREC 3-4% DISSEM TO BLEB PO IN FRAGS - FRAGS TO 3 CM IN SIL MATRIX FI DISSEM BLK MIN - TET? OXID SULFS IRRID - PO?	<5	0.5	<0.5	127	3	55	2	<2
683808RF REP 22 BL50E, 51+44N	ALT CRYST TUFF BREC 30 X 10 CM ANG BO IN STR 60% QTZ 20% FELD 10% CHL 3-4% SULFS 5% FUCHS	W: YEL BRN F: GRY GRN WH	FI - CO, GLASSY FRAG 15% QTZ CRYST TO 1 MM IN MATRIX	TYPE 2 WELL SIL, SULF, FRAC - WELL DEV QTZ VN - WH-BLU VN - MIN PY, UP TO 3 CM WIDE IN CHL SLIPS MOD LIM, TR MN; NO CARB NON MAG BREC FRAGS TO 4 CM	<5	0.4	<0.5	44	3	33	6	5
683809RF BL50E, 51+44N	ALT CRYST TUFF BREC 10 X 10 CM ANG BO 50% QTZ 35% FELD 5% CHL 5% SULFS 5% QTZ/ANK STWK	W: BLK, BRN FR: GRY-PK	FI, VUGGY, REM FRAG TEXT	TYPE 3 WK OXID, WK K ALT FRAG REM TO 8 CM MOD DEV QTZ ANK STWK 2-3% NON MAG PO? AS DISSEM & STRINGS 2% BLU RESIN MIN WITH PO	<5	0.5	<0.5	45	2	82	18	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683810RF REP 23 BL50E, 51+45N IN DRY STR	ALT CRYST TUFF BREC 50 X 40 X 20 CM ANG BO 40% QTZ 45% FELD 5% SULFS 5% CHL 5% SER	W: RUSTY BRN - PURP F: GRN GRY - BLU	FI - APHAN MASS, VUGGY FRAG	TYPE 2 WELL OXID, SIL, WK MAG, MOD FRACT - 1 MM FRACS C/W PY, PO IN FRAC FILLS , PY AS ELONG BLEBS, SOM IRRID PO FRAGS TO 3 CM	6	2.4	<0.5	57	17	78	128	26
683812RF REP 24 BL50E, 51+60N	SULF, BNDED ARG 10 X 25 CM BO IN SO HOLE 63% QTZ 25% FELD 6% OXID 5-7% SULFS	W: ORG BRN - PURP F: GRY C/W PK BNDS	FI - APHAN EQUIGRAN	TYPE 3 WELL MN, SIL; WK LIM MOD - STR MAG WK FRAC - X-CUT, <1 MM C/W SOME PO PO MAINLY AS FI DISSEM	<5	0.9	<0.5	76	5	108	4	4
683815RF 49+97E, 52+10N	ALT CRYST TUFF BREC 40 X 15 CM ANG BO 50% QTZ 25% FELD 10% QTZ ANK VN 5-7% SULFS 10% CHL	W: ORG BRN F: PK-GRY	GEN FI - APHAN FRAG, EARTHY	TYPE 3 WELL LIM, CHL, SULF MOD FRAC, MN, MAG FI DISSEM PO IN SIL MATRIX	<5	0.4	<0.5	55	2	55	6	<2
683721RF REP 3 BL50E, 52+98N	ALT TUFF BREC 1 X 1 X 1.5 M ANG BO 56% QTZ MATRIX 10% QTZ CRYST 30% QTZ VNS, LIM ON FRACS 3-4% DISEM SULF IN HOST, 6-7% IN 2-5 MM VNS AS SOOTY PY	W: PURP BRN-ORG BRN F: BLU GREY	APHAN - CO VUGGY, BREC, SUGARY	TYPE 2 WELL SIL, DEV QTZ VN MOD SULF, TO 10% LOC MAINLY AS DISSEM PY TR ASPY, SPHAL NO CARB, NON MAG EUHED QTZ CRYSTS TO 0.75 CM IN VUGS	1900	87.7	0.6	136	57	63	1505	20
683822RF REP 25 BL 50E, 53+80N	ALT CRYST TUFF BREC 30 X 20 CM ANG BO 55% QTZ 30% FELD 10% ANK 5% SULFS	W: ORG BRN - YEL F: YEL BRN	FI - CO, MASS SOM MOT TEXT 10% MM QTZ CRYSTS IN MATRIX	TYPE 3 WELL SIL, LIM WK MAG 4-5% BLEBBY PO 1% FI DISSEM PY QTZ ANK VN TO 0.5 CM	<5	0.5	<0.5	51	6	55	33	2
683823RF BL 50E, 53+80N	ALT CRYST TUFF BREC 30 X 25X 15 CM ANG BO SIMILAR TO 683822RF			TYPE 3	<5	0.7	0.5	25	14	39	13	<2
683845RF REP 52 BL50E, 54+27N	ALT CRYST TUFF BREC 30 X 40 CM ANG BO 60% QTZ 27% FELD 5% ANK 5% SULFS 2-3% LIM	W: ORG BRN F: GRN YEL GRY	APHAN - CO; SUGARY VUGGY; 15% MM QTZ CRYST IN MATRIX BREC - FRAGS TO 4 CM	TYPE 2 WELL SIL, SULF MOD FRAC, NON MAG MOD ANK SULFS MAINLY PY, TR ASPY AS FI DISSEM	13	1.4	0.7	45	10	78	12	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683847RF REP 32 BL50E, 54+27N	ALT CRYST TUFF BREC 40 X 30X 5 CM ANG BO 60% QTZ 5% ANK 2% CHL 24% FELD 8% SULFS 2% LIM	W: ORG BRN BLK F: GRY GRN YEL	FI - CO, EARTHY BREC - FRAGS TO 3 CM	TYPE 3 WELL SIL, SULF, OXID 1-2% BLK DISSEM SPEC? 5% PO - BLEBBY, NON MAG QTZ VN IN FRACS, UP TO 3MM	<5	0.6	<0.5	42	8	56	9	<2
683846RF BL50E, 54+30N	ALT CRYST TUFF BREC 25 X 14 CM ANG BO 60% QTZ 25% FELD 5% CHL 3% ANK 2% LIM 5% SULFS	W: ORG BRN - PURP BLK F: GRN GRY - BLU GRY	FI - CO, EARTHY FRAG - FRAGS TO 3 CM	TYPE 3 WELL LIM, SIL, FRAC LOC STR MAG 3-4% PO AS DISSEM IN QTZ ANK FRAC FILLS TO 2MM 1% WH CUBIC ASPY	<5	0.9	0.5	34	7	133	2	<2
683848RF REP 33 BL50E, 54+30N	ALT CRYST TUFF BREC 20 X 15 CM ANG BO 55% QTZ 35% FELD 7-8% SULFS 2% ANK	W: BRN F: GRY	FI - CO; QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 2 CM	TYPE 3 WELL SIL, WK OXID, MAG WK FRAC DISSEM SULFS - 5% MAG PO & NON MAG; 1-2% WH CUBIC ASPY; 1-2% BLK TET?	<5	<0.2	<0.5	4	5	100	2	<2
683849RF REP 34 BL50E, 54+35N	ALT CRYST TUFF BREC 20 X 25 CM ANG BO 60% QTZ 25% FELD 3-4% ANK 6% SER 4-7% SULFS	W: RD BRN F: GRN YEL GRY	FI - CO; QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 3 CM	TYPE 3 WELL SIL, OXID, WK FRAC - LIM ON FRAC 3-4% PO; 1-2% BK PATCH TET? <1% ASPY AS FI CUBES	<5	0.9	<0.5	24	7	57	3	<2
683850RF REP 35 BL50E, 54+45N	QTZ VN MAT 16 X 20 CM ANG BO 85% QTZ 5% ANK 5% CHL 5% SULFS	W: ORG RD BRN F: YEL ORG	MED, EQUIGRAN GLASSY	TYPE 3 WK MAG, FRAC, MOD CHL FI DISSEM PO; 1-2% BLK TET?	<5	0.5	<0.5	60	3	16	<2	2
683877RF REP 36 50+01E, 54+50N	ALT CRYST TUFF BREC C/W QTZ CARB ANK VNS 25 X 20 CM ANG BO 65% QTZ 18% FELD 8% ANK 3% SULFS 3-4% FUCHS 2% LIM, MN	W: PURP ORG BRN F: GRY , BUFF YEL VN	FI - CO, MASS QTZ CRYSTS TO 2 MM IN MATRIX FRAG - FRAGS TO 3 CM	TYPE 3 WELL SIL, ANK WELL FRAC - BREC QTZ ANK VN & STRINGS UP TO 3 CM C/W MIN FUCHS MOST SULF IN VNS - FI PO, MAG	9	<0.2	<0.5	18	2	52	3	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683879RF BL50E, 54+70N	ALT CRYST TUFF BREC 20 X 10 X 10 CM ANG BO 65% QTZ 20% FELD 2-3% ANK 4-5% CHL 5-7% SULFS	W: ORG PURP BRN F: GRN GRY	APHAN - CO QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 3 CM	TYPE 3 WELL SIL, SULF, OXID WK MAG, NO CARB FI DISSEM SULFS - MAG PO, TR ASPY, SPEC	<5	0.4	<0.5	21	7	91	9	<2
683880RF REP 36 BL50E, 54+71N	ALT CRYST TUFF BREC 50 X 30 X 5 CM ANG BO 65% QTZ 7-8% SULFS 25% FELD 2% LIM	W: ORG PURP BRN F: GRN GRY	FI - CO, GEN MASS QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 2 CM	TYPE 3 WELL SIL, SULF MOD FRAC WITH QTZ ANK VN TO 3 MM; WK STWK DISSEM FI SULFS - MAINLY PO, NON MAG, MIN PY	<5	0.5	<0.5	20	5	49	10	<2
683882RF BL50E, 54+73N	ALT CRYST TUFF BREC 20 X 15 CM ANG BO 65% QTZ 6% SULFS 20% FELD 5% SER 5% ANK	W: ORG PURP BRN F: GRN GRY	FI - CO, GEN MASS QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 6 CM	TYPE 3 WELL SIL, SULF MOD FRAC WITH QTZ ANK VN TO 3 MM; WK STWK DISSEM FI PO & PO IN QTZ ANK & SULF FRACS TO 2 CM	<5	0.3	<0.5	35	6	48	5	<2
683878RF BL50E, 54+83N	ALT CRYST TUFF 30 X 20 X 10 CM ANG BO 65% QTZ 21% FELD 4-5% SULFS 3-4% LIM 5% CHL	W: ORG BRN F: GRN GRY	FI - APHAN SUGARY	TYPE 3 WELL SULF, LIM STR MAG, WK CHL, FRAC NO CARB 3% BLU PO, 1% FI DISSEM PY	<5	0.7	<0.5	34	10	42	5	<2
683881RF BL50E, 54+85N	ALT CRYST TUFF 25 X 20 CM ANG BO 55% QTZ 5% FUCHS 4-5% SULFS 30% FELD 5% CHL	W: ORG BRN F: PK GRY	APHAN - CO MM QTZ CRYSTS IN MATRIX	TYPE 2 MOD SULF, WELL SIL NO CARB, NON MAG STR SHEAR QTZ FUCHS VN TO 3-4 CM FI DISSEM PY	<5	<0.2	<0.5	29	<2	55	<2	<2
683884RF BL50E, 55+00N	ALT CRYST TUFF 20 X 16 CM ANG BO 70% QTZ 5-6% SULFS 10 ANK 15% FELD	W: ORG PURP BRN F: GRY GRY YEL	APHAN - CO EQUIGRAN, VUGGY REM QTZ CRYST TO 2 MM	TYPE 3 WELL SIL, WK FRAC - QTZ, ANK ON 1 MM FRACS 4-5% PO, LOC MAG MIN BLK MIN - TET? FI DISSEM OF SULF & AS RIMS ON BREC FRAGS	<5	0.6	0.5	11	15	77	6	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683886RF BL50E, 55+37N	ALT CRYST TUFF BREC 60 X 30 X 20 CM ANG BO 29% FELD 55% QTZ 5-7% SULFS 4-5% ANK 3-4% LIM	W: ORG PURP BRN F: GRY GRY PK	FI - APHAN FRAG - FRAGS TO 3 CM	TYPE 2 WELL SIL, FRAC - LIM, SOOTY PY - OVERALL 6% FI DISSEM PY SOM WH SULFS - ASPY SOM DISSEM BLK SULFS - TET?	<5	<0.2	<0.5	16	2	68	<2	<2
683888RF BL50E, 55+45N	ALT CRYST TUFF BREC 12 X 8 CM ANG BO 60% QTZ 5% SULFS 10% ANK 5% LIM 20% FELD	W: ORG PURP BRN F: GRY GRY YEL	FI - CO EARTHY	TYPE 3 WELL SIL, LIM WK MAG, WELL FRAC C/W WELL DEV QTZ ANK VN TO 8 MM 5% FI DISSEM PO IN MATRIX & FI TO CO IN QTZ ANK VN SOM BLK MET MIN - TET?	<5	0.3	<0.5	11	6	59	2	<2
683889RF REP 53 BL50E, 55+55N	ALT CRYST TUFF BREC 40 X 20 X 20CM ANG BO AREA OF ABUND LIM BO 55% QTZ 5% SULFS 5% ANK 33% FELD 2% CHL	W: ORG RD BRN F: GRY GRY	FI - APHAN GEN MASS	TYPE 2 WELL SIL, SULF WK DEV QTZ CARB VN TO 3 CM WK FRAC C/W CHL 4% FI PY, 1% SPEC MIN BLEB PO	<5	0.5	<0.5	26	8	55	4	<2
683890RF REP 37 BL50E, 55+68N	ALT CRYST TUFF BREC 50 X 30 X 5 CM ANG BO 65% QTZ 20% FELD 5% ANK 5-6% SULFS 3-4% FUCHS	W: ORG BRN F: GRY PK	APHAN - CO QTZ CRYSTS TO 2 MM FRAG - FRAGS TO 5 CM	TYPE 3 WELL SIL, SULF, OXID WK FRACS, NAR VN LIM, QTZ, ANK 1% CUBIC PY, 4% NON MAG PO, <1% ASPY, MIN TET? SULFS DISSEM & PATCHES	<5	<0.2	<0.5	10	7	40	5	<2
683892RF BL50E, 55+82N	SULF ARG 20 X 10 CM ANG BO 45% QTZ 37% FELD 3% CARB 4-5% SULFS 4-5% LIM 5% CHL	W: YEL ORG PURP BRN F: GRY - BLK	FI, SILTY, MASS - EARTHY	TYPE 2 WELL SULF, LIM, MOD FRAC - LIM ON FRACS MIN QTZ CARB VN TO 5MM SOM CHL LAM 4-5% DISSEM PY, 1% BLEB PO	<5	0.6	0.8	57	8	90	12	2
683893RF BL50E, 55+82N	QTZ VN MAT 20 X 10 CM ANG BO 80% QTZ 5% SULFS 10% CHL 5% LIM	W: ORG BRN - PURP BRN F: BLU GRY WH	FI - CO VUGGY, GLASSY SOM CHL NET TEXT - CHL AS MATRIX FOR BREC QTZ FRAGS	TYPE 2 WELL SULF, CHL, LIM NON MAG, NO CARB 5% FI DISSEM PY	885	6.8	1.9	43	140	147	1285	21

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
LINE 51N (W TO E)												
683991RF 48+75E, 51+25N IN DEBRIS FLOW	ALT ARG 15 X 20 CM ANG BO 60% QTZ 5-7% LIM 8% CHL 5% FUCHS 5% ANK 10% FELD 3-5% SULF	W: PURP - ORG BRN F: GREY - CREAMY WH - GRY	FI - APHAN SUGARGY, GLASSY EARTHY, VUGGY	TYPE 3 WELL SIL, WELL LIM QTZ VN - BLU, WH II TO SHEARING - WELL SHEAR WELL BNDED - BLK ARG, WH QTZ TO 0.5M, BUT GEN STRING GRN FUCHS PATCHES IN SUG QTZ VN MOD SULF - 3-5% PO, PY AS BLEBS, SOM PY CUBES, MAINLY IN QTZ VN	<5	0.7	1.2	80	5	144	<2	<2
683982RF 49+77E, 51+03N	SULF CRYST TUFF BREC 30 X 20 CM ANG BO 60% QTZ 10% LIM 1-2% HEM 10-12% SULF 16% FELD	W: PURP - ORG BRN F: GREY BLK BRASY	APHAN - CO EARTHY, VUGGY MM QTZ CRYSTS IN MATRIX	TYPE 3 WELL FRAC, WELL DEV PO VN TO 1.5 CM CO PO IN VN, BLU - GRN IRRID SOM BLEB, NET TEXT PO WELL SIL, OXID	8	1.3	1.8	648	4	55	9	<2
683981RF 49+80E, L51N	ALT CRYST TUFF BREC 18 X 10 CM ANG BO 65% QTZ 2-3% GRN FUCHS? 5-7% ANK 2-3% SULF 1-2% LIM 20% FELD	W: BUFF - ORG BRN F: GREY TO CREAMY	GEN FI - APHAN FIBROUS TO STWK TEXT	TYPE 2 WELL SIL, MOD SULF WELL DEV QTZ - ANK STWK; WK CARB 2-3% FI PY, SOM BLEBS TO 5 MM GRN FIBROUS MIN - FUCHS IN VN UP TO 1 CM	<5	<0.2	<0.5	32	<2	49	261	2

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LINE 52N (W TO E)												
683916R 47+83E, L52N	ALT CRYST TUFF BREC SUBCROP COMP SAMP 65% QTZ 25% FELD 10% CHL TR SULFS	W: BRN - DK GRY F: GRN GRY BLK	APHAN - CO BANDED, SILKY 15% MM QTZ CRYSTS	TYPE 3 MOD SIL, NON MAG NO CARB, MOD FRAC - LIM ON FRACS TR DISSEM PO	<5	<0.2	<0.5	23	3	39	2	<2
683919RF 47+85E, L52N	SHEARED CRYST TUFF 40 X 30 X 10 CM ANG BO 20% CHL 45% QTZ 20-25% FELD 8% SULFS 5% CARB	W: BUFF BRN F: DK GRN BLK	FI - CO SILKY, SHEARED 2-3 MM QTZ CRYST 2	TYPE 4 WELL SHEARED, CARB, CHL NON MAG, MOD LIM SOM VN, STRINGS TO 3-4 MM OF WH QTZ, CARB 5-7% SPEC AS FI MET DISSEM <1% BLEB PY	24**	<0.2	0.8	133	4	66	4	<2
683922RF REP 42 48+02E, L52N	SULF RHY 16 X 10 CM ANG BO 80% QTZ 5% SULFS 5% LIM 10% FELD	W: ORG BRN, BUFF F: BLU GRY WH	APHAN - CO MASS, EARTHY, VUGGY	TYPE 2 WELL LIM, WK FRAC NON MAG WELL SULF - 4% FI DISSEM PY; 1% CUBIC PY	<5	<0.2	<0.5	186	3	46	23	<2
683924RF 48+02E, L52N	ALT CRYST TUFF BREC & QTZ VN MAT 20 X 15 CM ANG BO 75% QTZ 12% FELD 7% FUCHS 3-4% SULFS 1% CARB	W: ORG BRN - DK GRN GRN - PK GRY	FI - CO GLASSY, VUGGY 15% MM QTZ CRYSTS IN SIL MATRIX	TYPE 3 WELL SIL, MOD SULF, MAG WK CARB FUCHS VN 7-8 MM C/W BLEBBY PO MIN FI BLK SPEC?	<5	0.4	0.7	32	6	88	7	<2
683936RF 48+84E, L52N	QTZ VN MAT C/W PO BLEB WITH CPY 30 X 30 X 15 CM ANG BO 80% QTZ 10% CHL 5% CARB 4% SULFS 1% LIM	W: ORG BRN, GRY WH WH GRY ORG BRN	FI, GRAN, EARTHY, SUGARY	TYPE 3 WELL SULF, CARB, CHL LOC STR MAG QTZ VN > 15 CM WIDTH BLEB PO & MIN ASSOC CPY	<5	0.3	<0.5	246	3	21	15	<2
683931RF REP 43 49+74E, L52N	SULF CRYST TUFF BREC 30 X 30 X 15 CM ANG BO 70% QTZ 20% QTZ ANK VN 7% SULFS 3% LIM	W: ORG PURP BRN F: GRY, ORG	FI MATRIX, SOM MM QTZ CRYSTS MASS, SUGARY	TYPE 3 WELL LIM, ANK, SULF WELL DEV STWK QTZ ANK VN, WELL FRAC - LIM ON FRACS FI DISSEM PO IN MATRIX & IN QTZ CARB VN	7	0.4	<0.5	26	5	21	3	<2

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LINE 53N (W TO E)												
683865RF REP 27 50+62E, L53N IN 683864 SOIL HOLE	SULF ARG 10 X 15 CM ANG BO 60% QTZ 25% FELD 10% CHL 5% SULF	W: DK RD BRN F: DK GRY	FI - APHAN EQUIGRAN, MASS	TYPE 3 WELL SIL, NO CARB, STR MAG, NO FRAC FI DISSEM PO, MIN BLEBS	<5	0.6	<0.5	31	3	80	<2	<2
683866RF REP 28 50+62E, L53N IN 683864 SOIL HOLE	SULF CRYST TUFF BREC 25 X 15 CM ANG BO 60% QTZ 10% FUCHS 20% FELD 5% CHL 5% SULFS	W: DK BRN - RD BRN F: DK GRY BLK - GRN	FI - APHAN FRAG - FRAGS TO 3 CM	TYPE 3 WELL SIL, FRAC - CHL ON SHEARS; 2-3 MM QTZ FUCHS VN II TO SHEAR C/W CO PO; SOM FI DISSEM PO IN MATRIX	12	0.6	0.5	108	9	35	104	5
LINE 54N (W TO E)												
683826R 49+16E, L54N	ALT CRYST TUFF BREC COMP SHEARED OC/ 2M SHEAR 324/85E 50% QTZ 28% FELD 10% CHL 5% SER 2% SULFS 5% QTZ ANK	W: RD ORG F: GRN GRY	FI - CO SILKY MM QTZ CRYSTS IN MATRIX	TYPE 3 WELL LIM, MN, CHL, SIL MOD FRAC C/W QTZ ANK STRINGS TO 3 MM 2% FI DISSEM PO IN CTB	<5	0.5	<0.5	65	<2	46	4	<2
683828RF REP 26 49+25E, L54N	ALT CRSYT TUFF BREC SERICITE SCHIST 25 X 20 CM ANG BO 60% QTZ 15% SER 15% FELD 5% SULFS 3% ANK	W: YEL BRN F: GRY	V FI, SHISTOSE	TYPE 3 WELL SIL, SHEARED, SULF WK MAG, NO VN 5% FI DISSEM PO	795	0.8	<0.5	45	17	16	2	3
683829RF 49+25E, L54N	ALT CRSYT TUFF BREC 40 X 20 CM ANG BO 45% QTZ 43% FELD 7% CHL 5% SULFS	W: BRN BUFF F: GRN GRY	FI - APHAN GEN MASS C/W MIN QTZ CRYSTS	TYPE 3 WK OXID, MAG; MOD CHL MOD SIL, NO CARB, VN FI DISSEM PO THRU OUT	32	2.2	<0.5	158	5	120	7	<2
683704RF 50+28E, L54N	ALT CRYST TUFF BREC TAKEN AS BKGR WR SAMP 25 X 15 CM ANG BO 60% QTZ 25% FELD 3-4% SULFS 10% SER	W: DK BRN - PURP BRN F: DK BLU GRY	FI - CO GLASSY -SUGARY 25% MM WH QTZ CRYSTS	TYPE 3 MOD SIL, WELL SER WK MN, FRAC, MAG CARB 3% DISSEM PO GEN IN FRACS	<5	<0.2	<0.5	20	2	84	<2	3

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683705RF REP 7 50+29E, L54N	CRYST TUFF BREC C/W QTZ VN 30 X 50 CM ANG BO 75% QTZ 15% FELD 8% SULFS 2% OXID	W: ORG YEL BRN PURP MN F: PINK, BLU GREY	TUFF: FI - APHAN MASS QTZ VN: FI, SUGARY BLEBBY	TYPE 3 WKLY LIM, MN, FRAC - GEN <1 MM, WITH PO; WELL SULF BLU GRY QTZ VN TO 6 CM 75% BLU GRY QTZ VN TO 6 CM C/W 8% BLEB, PATCHES PO 2-3% MET BRN MIN TET? IN VN & PATCHES C/W PO	<5	0.4	<0.5	204	<2	17	11	<2
683706RF REP 8 50+38E, L54N	CRYST TUFF BREC C/W SULF QTZ VN 1 X 0.5 M ANG BO 60% QTZ 15% FELD 20% SULFS 5% OXID	W: PURP ORG BRN - YEL BRN F: GRY GRN PK	TUFF: APHAN - CO SOM MM QTZ CRYSTS VN: FI TO CO SUGARY	TYPE 3 WELL SIL, LIM; STR MAG QTZ VN TO 4-5 CM, MN STAIN ON VN MARGINS 70% VN MATERIAL CREAM YEL - 70% SUG QTZ, 30% SULFS IN PATCHES, DISSEM SULFS - 15% BLK DULL MIN -TET? C/W BLK STR, OFTEN WITH PURP IRRID 15% FI - CO MAG PO	<5	0.9	0.6	333	<2	37	10	3
683707RF 50+41E, L54N IN 683637 SOIL HOLE	ALT ARG C/W QTZ VN 20 x 10 CM ANG BO 50% QTZ 40% FELD 8% SER 2% SULFS	W: RD-YEL-GRN/GRY F: BLU/GRY C/W WH QTZ VN	VN: FI - APHAN SUGARY TO EARTHY ARG: FI - APHAN CHERTY	TYPE 3 WELL SIL; SER, WK LIM, SULFS, MOD-WELL FRAC 35% QTZ VN & STRING UP TO 5 CM, II TO BEDDING C/W 2% DISSEM SULFS INCL PO, MINOR PY 65% ARG, FI GR, WELL SIL	<5	<0.2	<0.5	19	2	68	81	<2
683708RF 50+41E, L54N	ALT TUFF BREC 20 x 10 CM ANG BO 38% QTZ 10% SER 50% FELD 2% SULFS	W: DIRTY BRN FR: GRY GRN	APHAN - CO EARTHY, FRAG 48% ANG BREC FRAGS C/W UP TO 2 MM QTZ CRYSTS 48% CRYST TUFF AS MATRIX OF FI GR TUFF	TYPE 2 MOD SIL, WKLY LIM, FRAC WITH QTZ VN TO 3 MM; NON MAG, NO CARB WELL SER SULFS IN CRYST TUFF: 1-2% DISSEM PY 1-2% DISSEM ASPY	<5	<0.2	<0.5	55	<2	67	4	2
683711RF 50+50E, L54N	ALT TUFF BREC FLOAT: 30 X 20 CM ANG BO 50% QTZ 30% FELDSPAR 15% SER 3-5% SULFS	W: YEL BRN -PURP BRN F: BLU GREY	FI - CO SUGARY, 25% MM QTZ CRYSTS IN MATRIX	TYPE 3 WKLY SIL, LIM, MN; WELL SULF, SER; WELL DEVEL QTZ VN TO 3 MM C/W DISSEM, BLEBS PO	<5	<0.2	<0.5	37	<2	92	10	2
683712RF REP 9 50+67E, L54N	ALT TUFF BREC FLOAT: 30 X 20 CM ANG BO 40% QTZ 35% FELD 15% SULF 10% SER	W: PURP BRN F: GRN GREY	FI - CO, GEN MASS SUGARY, 15% MM QTZ CRYSTS IN MATRIX	TYPE 3 WELL SIL, SULF, NO CARB SINGLE FRAC C/W PY SMEAR 13% DISSEM PO C/W PURP IRRID	<5	0.6	0.9	450	<2	20	10	<2

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LINE 55N (W TO E)												
683684RF 49+87E, L55N	ALT CRYST TUFF BREC 20 X 15 CM ANG FLOAT BO 50% QTZ 40% FELD 5% CHL 3-4% SULFS/OXIDES? 1-2% CARB	W: BUFF BRN F: DK GRY GRN	FI - CO GLASSY 10% MM WH QTZ XLS	TYPE 4 WELL SIL, NON MAG, WK CARB, NO LIM MINOR FRAC, NO VN 3-4% FI DISSEM BLK MIN - SPEC?	<5	<0.2	<0.5	11	2	115	<2	<2
683685RF 49+95E, L55N	ALT CRYST TUFF BREC FLOAT: 45 X 30 X 25 CM ANG BO 60% QTZ 23% FELD 5% CHL 5-7% SULFS 5% LIM	W: ORG BRN F: GRN GRY PK BRN	FI - CO EARTHY, VUGGY	TYPE 2 WELL SIL, SULF NO CARB, MOD MAG MINOR QTZ ANK STRINGS 5% FI CUBIC PY 2% BLEB PO TR CPY, 1% TET?	<5	<0.2	<0.5	21	5	88	5	<2
683906RF REP 20 50+69E, L55N	*ALT CRYST TUFF BREC* FLOAT: 50 X 50 CM ANG BO 60% QTZ 30% FELD 2-3% PO 2% TOUR 1% FUCHS 2% CHL 2% ANK	*W: YEL BRN* F: GRN GRY TO ORG BLK	*FI SIL MATRIX* EQUIGRAN, SUGARY GLASSY - FRAG TEXT	*TYPE 3* WELL SIL, LIM, MN 1.5 CM FUCHS WH QTZ VN C/W 10% PO, 2% PY, 2% TOUR, TR CPY & SPEC	*<5*	*0.3*	*<0.5*	*98*	*2*	*9*	*8*	<2
683910RF 50+75E, L55N	ALT CRYST TUFF FLOAT:15X15X5 CM ANG BO 50% QTZ 38% FELD 5% SULFS 5% FUCHS, SER	W: ORG - PURP BRN F: GRY - PK	FI EQUIGRAN MATRIX C/W 15% 1-2 MM QTZ CRYSTS	TYPE 3 WELL SIL, LIM, MN, SHEARED, SULF LOC MAG 5% FI DISSEM PO IN FUCHS SHEAR	<5	0.5	<0.5	102	<2	66	18	<2
LINE 56N (W TO E)												
683899RF 49+62E, 56+08N	ALT ASH TUFF SMALL BO IN HOLE OF 683899SO 60% QTZ 7-8% SULFS 10% OXID 22% CHL	W: DRK BRN F: BLK DRK GRN	FI - CO EARTHY, VUGGY SCALY ON SURF	TYPE 3 WELL SIL, OXID WK FRAC, WK MAG 1% PY IN LENSES, 6% DISSEM & PATCHY PO	<5	0.2	1.4	441	6	173	<2	<2
683658RF 50+60E, L56+02N	SHEARED TUFF BREC? 50X 50 CM ANG BO 62% QTZ 10% CHL 7% SULFS 18% FELD 3% LIM	W: ORG BRN F: BLU GRY	FI, EQUIGRAN MASSIVE	TYPE 2 WELL SIL, OXID, SULF NON MAG, NO CARB SULF VN C/W CO & DISSEM PY SOM CUBIC PY IN FRACS	36	1.8	5.7	81	80	332	799	5

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683663RF 50+88E, L56N	ALT TUFF BREC C/W QTZ VN & STWK 50 X 40 X 12 CM ANG BO 60% QTZ 25% FELD 5% CHL 5% SER 2% SULFS 3% EPID	W: ORG BRN PURP F: BRN WH	FI - CO FRAG - FRAGS TO 5 CM QTZ CRYSTS TO 2 MM	TYPE 2 WELL OXID, CHL QTZ VN TO 4 CM & WELL DEV STWK; EUHED PY IN LARG VN; DISSEM PY, PO ON MARG OF QTZ VN, ALONG WITH EPID	79	0.6	1.3	21	6	117	595	10
HIGHWAY ZONE CREEK (S TO N)												
683942RF @ 25 M N OF L52N ON CL	QTZ VN MAT 10 X 8 CM ANG BO 70% QTZ 5% CARB 3% ANK 15% CHL 7% SULFS	W: ORG PURP BRN F: WH GRN ORG	FI - CO MASS, SUGARY	TYPE 3 WELL FRAC, CHL, SULF LOC STR MAG, MOD CARB SOM QTZ-ANK-CARB STWK, WK DEV PO AS CO BLEBS C/W MIN CPY	<5	0.2	<0.5	132	2	39	4	<2
683943RF REP 46 @ 88 M N OF L52N ON CL	QTZ VN MAT 12 X 8 CM ANG BO 84% QTZ 3-4% LIM 5% CHL 5-7% SULFS	W: ORG BRN F: WH BLU GRY YEL ORG	FI-CO SUGARY, VUGGY	TYPE 1 WELL SULF, MOD FRAC - CHL ON FRACS, MOD LIM 5% PY IN VN TO 2 CM; SOM IN VUGS 1-2% SPHAL AS LENS, PATCH, STRINGS C/W SOM BLEB CPY	7050**	209	30.8	869	406	2460	590	111
683944R @ 100 M N OF L52N ON CL, 4 M W	SHEARED ALT CRYST TUFF BREC OC SHEAR @ 7/85E 0.5M WIDTH COMP SAMP 10 M LONG OC 55% QTZ 10% CHL 25% FELD 5% LIM 2-3% SULFS 1-2% SER	W: YEL ORG BRN F: BLK GRY	APHAN - CO LOC GRUNGY, EARTHY	TYPE 2 WELL LIM, NO CARB, MAG MOD SHEAR, WELL CHL - CHL ON FRACS 2-3% PY AS FI DISSEM	12	0.3	<0.5	57	4	77	<2	<2
683734RF REP 4 49+20E, 52+84N	QTZ CARB VN C/W SEMI MASS SULF 30 X 30 CM ANG BO 45% GRAN QTZ 30% PO SEMI MASS SULF 1-2% BLEBBY CPY 12% DISSEM SER 8-10% DISSEM & PATCHY CARB	W: ORG BUFF BRN, F: GRN RED BRN	FI - CO GRANULAR, SOM BRASSY NET TEXT	TYPE 3 WELL CARB, SULF, SER STR MAG SOM SULF MATRIX FOR BREC QTZ FRAGS	38	1.6	2	1250	<2	31	478	<2

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683735RF 49+20E, 52+86N	SULF ARG 20 X 12 CM ANG BO 25% VN - BLU GREY QTZ UP TO 3 CM C/W DISSEM PY TO 7-8% LOC 70% HOST - FI GR ARG, WKLY SIL 4-5% FI DISSEM PY IN FRACS; TR ASPY	W: DK GREY - BRN F: DK GREY - BLU	VN: MASS, EARTHY ARG: APHAN - FI	TYPE 2 ARG WKLY SIL, MOD SULF; WELL FRAC - MOD QTZ VN DEV, VN WELL SULF	<5	0.6	<0.5	96	3	37	37	5
683737RF 49+16E, 52+89N	ALT CRYST TUFF BREC 15 X 10 CM ANG BO 40% QTZ 2% CHL 4-5% PO 40% FELD 5% LIM, MN 8% CARB	W: DK BRN - YEL BRN F: GRY BLU - PK	FI - CO VUGGY, GLASSY	TYPE 3 WELL SIL, HEM, LIM, CARB NON MAG 20% QTZ CARB VN, TO 1.5 CM TR CPY, 4-5% PO IN VN & TUFF,TR PY; SOM DISSEM ASPY IN TUFF 2% CHL AS PATCHES	112	0.8	<0.5	443	<2	37	37	<2
683945RF @ 119 M N OF L52N ON CL	SULF, FRAC ARG 16 X 10 CM ANG BO 35% QTZ 50% FELD 5% LIM 2% SULFS 5% CARB 3% OXIDE	W: RD BRN PURP BRN F: DK GRY BLK	FI - CO VUGGY, EARTHY GLASSY	TYPE 2 WELL LIM, NON MAG MOD CARB, WK SULF 20% QTZ CARB VN TO 3 CM PY AS DISSEM, IN VUGS	11	0.8	<0.5	111	9	30	10	4
683736RF REP 5 49+17E, 52+96N	QTZ VN MAT 20 X 20 CM ANG BO 80% QTZ 8% PY IN QTZ VN GEN AS CUBIC CRYST 10% CHL RAFTS TO 0.5 CM C/W PY CRYSTS & MASS LOC TO 10% 2-3% CARB IN PATCHES	W: DK GREY - YEL BRN F: WH, RUSTY	APHAN - CO CUBES GLASSY, MASS	TYPE 2 WELL SULF, BREC MOD LIM, NON MAG WK MN SURF	289	8.1	0.6	70	42	66	287	7
683733RF 49+10E, 52+98N	QTZ VN MAT 10 X 15 CM ANG BO 86% QTZ, WH C/W LIM ON SURF 5% CARB PATCHES, DISSEM 5% SER PATCHES 4% SULF, MOSTY PO - STRONG MAG; SOM PY CUBES	W: ORG BRN F: WH GREY	APHAN - CO SUGARY TEXT, LOC VUGGY C/W SOOTY PY	TYPE 3 QTZ VEIN - MOD CARB, SUL, SER MAINLY MAG PO C/W IRRID	<5	0.5	<0.5	56	2	42	5	<2

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683946RF REP 47 @ 25 M N OF L53N ON CL	ALT CRYST TUFF BREC C/W WELL SULF QTZ VN 40 X 50 CM ANG BO 50% QTZ 16% FELD 2% LIM 1-2% CARB 15-20% CHL 8% SULFS 2% LIM	W: RD BRN PURP BRN F: PK GRY	APHAN - CO SUGARY, VUGGY MM QTZ CRYSTS	TYPE 3 WELL LIM, SULF MOD FRACS C/W LIM MOD MAG BNDED QTZ CHL VN TO 3.5 CM PO AS FI DISSEM & BLEBS TR CPY	<5	0.3	<0.5	82	3	37	11	<2
683947RF REP 48 @ 32 M N OF L53N ON CL	QTZ VN MAT & SEMI MASS SULFS 16 X 8 CM ANG BO 56% QTZ 30% SULFS 4% CARB 10% CHL	W: RD BRN ORG BRN F: BRASSY WH GRN	FI - CO SUGARY QTZ SOM NET TEXT SULFS	TYPE 3 WELL SULF, CHL; STR MAG NO CARB SEMI MASS SULFS INCL 27% PO, 2-3% CPY, 1% SPEC?	22	3	2.3	4310	<2	25	3	<2
683948RF REP 49 @ 49 M N OF L53N ON CL	QTZ VN MAT & SEMI MASS SULFS 16 X 8 CM ANG BO 55% QTZ 20% SULFS 20% CHL 5% LIM	W: ORG BRN F: BRASSY, GRN, WH, CREAM	FI - CO SUGARY, GLASSY, EARTHY	TYPE 3 WELL SULF, CHL, OXID NO CARB; STRONG IRRID STR MAG 13% SEMI MASS PO 3-4% CPY, 3% SPEC AS PATCHES, DISSEM IN PO	37	14	0.6	4660	2	48	5	<2
683949RF REP 50 @ 60 M N OF L53N ON CL	ALT CRYST TUFF BREC & QTZ VN MAT 16 X 12 CM ANG BO 56% QTZ 5-7% CARB 30% CHL 7% SULFS	W: BUFF BRN F: WH - DK GRN	FI - CO SUGARY 1-2 MM QTZ CRYSTS	TYPE 3 WELL CHL, CARB, LIM, SULF STR MAG SOM QTZ VN TO 3 CM 5% BLEB PO WITH 1% CPY, 1% DISSEM SPEC	<5	0.2	<0.5	303	<2	26	195	<2
683950RF REP 51 @ 73 M N OF L53N ON CL	ALT CRYST TUFF BREC & VN C/W SEMI MASS SULFS 30 X 18 CM ANG BO 60% QTZ 17-22% MASS SULFS 10% CHL 2-3% LIM 5% ANK	W: YEL BRN - RED BRN F: GRN GRY - CREAM WH	FI - CO VUGGY SURF 3-4 MM QTZ CRYSTS	TYPE 3 WELL SULF, CHL, OXID MOD FRAC 18% SEMI MASS, IRRID PO, 3% CPY, 2% SPEC? CO BLEBS OF PO TO 1CM & SOM BLEBBLY VN; CPY & SPEC AS SMALL PATCHES, FI DISSEM ASSOC WITH PO	8	3.8	1	524	2	32	9	2
683782RF @ 76 M N OF L53N ON CL	QTZ VN MAT - BREC VN 15 X 10 CM ANG BO 70% QTZ 8-10% SULFS 15% CHL 5% LIM	W: PURP ORG BRN F: ORG BRN WH	FI - CO SUGARY, VUGGY, GLASSY, EARTHY	TYPE 1 NON MAG, WELL FR, CHL, LIM WELL DEV BREC: CHL MATRIX WITH QTZ FRAGS & SULFS: 6% DISSEM PY, 1% CPY, 1% ASPY, 1% SPHAL	9287**	604	4.4	1070	335	162	539	198

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683783RF REP 54 @ 95 M N OF L53N ON CL	SULF CRYST TUFF BREC 20 X 16 CM ANG BO 23% FELD 60% QTZ 5-7% SULFS 5% LIM 5% CHL	W: ORG YEL BRN F: MED GRY GRN, YEL	FI - CO SUGARY	TYPE 2 WELL SULF, SIL, NON MAG NO CARB, MIN FRACS FI DISSEM PY IN MATRIX	10	1.3	<0.5	27	6	71	5	<2
683784RF REP 55 @ 45 M N OF L54N ON CL	QTZ CARB VN IN SHEARED CRYST TUFF BREC 30 X 15 CM ANG BO 70% QTZ 15% CHL 10% CARB 3-4% SULFS 1-2% LIM	W: WH - ORG BRN F: WH - ORG BRN - GRN	FI - CO SUGARY, GLASSY	TYPE 3 WELL CARB, CHL WK BREC, MOD FRAC C/W LIM MOD SULFS: 3% PO BLEBS 1% PY ASSOC WITH GAL IN WH QTZ VN TO 7- 8 MM	15	1.1	<0.5	86	2	15	32	2
683785R @ 50 M N OF L54N, 5 M W OF CL	SHEARED CRYST TUFF BREC OC SHEAR 350/85E 60% QTZ 29% FELD 6-7% SULFS 3-4% LIM	W: DRK BRN - ORG BLU F: GRN GRY	APHAN - FI - CO GLASSY 10% MM QTZ CRYSTS	TYPE 2 WELL SULF, SIL NON MAG, NO CARB PY AS FI DISSEM IN MATRIX NO VN	8	0.6	0.5	34	9	97	6	<2
683786RF @ 54 M N OF L54N ON CL	QTZ VN MAT 10 X 12 CM ANG BO 77% QTZ 8% SULFS 10% CHL 5% LIM	W: ORG BRN PURP BRN F: WH BLU GRY GRN GRY	FI-CO VUGGY, SUGARY	TYPE 3 WELL SULF, CHL STR MAG, NO CARB MOD FRACS C/W LIM 7% PO AS BLEBS, CPY TO 2 MM AS RIMS ON PO BLEBS	18	0.9	<0.5	191	2	13	18	<2
683789RF @ 64 M N OF L54N ON CL	QTZ VN MAT 50 X 30 CM ANG BO 67% QTZ 15% CHL 10% LIM 7-8% SULFS	W: ORG BRN F: BLU GRY BLK BRASSY	FI - CO VUGGY, EARTHY GLASSY	TYPE 3 WELL SULF, LIM, CHL MOD FRAC LENSES BLU, WH QTZ IN QTZ CHL MATRIX BLEB PO TO 1 CM, C/W MIN CPY; 2% PY AS DISSM	<5	0.7	<0.5	210	9	15	7	<2
683790RF @ 35 M N OF L55N ON CL	ALTERED ARG 12 X 8 CM ANG BO 40% QTZ 47% FELD 5% LIM 1-2% SULFS 3-4% ANK 1-2% LIM	W: ORG BRN - YEL PURP BRN F: DK BLU GRY BLK	FI SILTY, EARTHY	TYPE 2 WELL LIM, FRAC C/W MM LIM, QTZ ANK VN IN FRACS NON MAG, WK SULF - 1-2% FI DISSEM PY IN MATRIX & OXID SULFS	7	1.4	<0.5	78	11	21	20	3

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683791RF REP 44 @ 62 M N OF L55N ON CL	QTZ VN MAT 15 X 8 CM ANG BO 78% QTZ 10% CHL 10% SULFS 2% LIM	W: RD BRN - ORG BRN F: WH BLU GRY	FI - C0 EQUIGRAN TEXT, SUGARY	TYPE 2 WELL SULF, CHL - VN TO 1-2 MM NO CARB, NON MAG 10% CO DISSEM PY, INCL SOM EUHED; SOM PY VN, STRINGS TO 3 MM	630	11.5	<0.5	15	403	67	2170	33
683651RF 49+75E, 56+06E IN HWY ZONE CRK	QTZ VN MAT 10 X 30 X 20 CM ANG BO 70% QTZ 8% SULFS 12-15% CHL 2-3% CARB 3-4% LIM	W: ORG BRN F: YELL WH GRN	FI - CO GLASSY, SUGARY EARTHY	TYPE 3 WELL SULF, FRAC C/W LIM & SULFS, WELL LIM, STR MAG CHL AS PATCHES, SOM FRAC FILLS 5% BLEB PO, <1% FI DISSEM PY 1% CPY WITH PO BLK MIN TET? TO 2%, AS DISSEM, PATCHES	333	1.6	<0.5	731	2	31	10	<2
683792R @ 114 M N OF L56+08N ON CL	ALT CRYST TUFF BREC WR COMP SAMP OF OC/5M 60% QTZ 5% SULFS 5% LIM 30% FELD	W: ORG BRN F: PK GRY	FI - CO EARTHY, GLASSY C/W 20% 2MM QTZ CRYSTS IN MATRIX	TYPE 3 WELL SIL, LIM, MOD MAG NO CARB QTZ VN TO 7 MM - BLEB PO IN VN FI DISSEM PO IN SIL MATRIX	<5	1.3	<0.5	20	15	94	10	<2
683793RF REP 45 @ 259 M N OF L56+08N, 5 M N OF CL	HWY ZONE TYPE QTZ VN MAT; 50 X 40 X 50 CM ANG BO 70% QTZ 5% ANK 5% LIM 5% CHL 15% SULFS	W: ORG BRN - PURP BRN F: ORG YEL - BLU GRY WH	FI - CO VUGGY C/W SOM EUHED QTZ; SUGARY, EARTHY	TYPE 1 WELL LIM, SULF WK CARB, MAG, MOD FRAC 5% SPHAL VN 1-2 MM 1% BLEB CPY IN SPHAL 1% PO BLEBS & SOM ASSOC CPY 7% PY - FI TO EUHED DISSEM 1% ASPY FI WH DISSEM	14750	791	218	4070	444	15200	3310	368
683795RF @ 259 M N OF L56+08N, 2 M SW OF CL	ALT CRYST TUFF BREC & QTZ VN MAT 30 X 20 x 25 CM ANG BO 83% QTZ 3-4% LIM 5% CHL 7-8% SULFS	W: ORG BRN - PURP BRN F: ORG YEL - GRY WH	FI - CO VUGGY, EARTHY, GLASSY SOM EUHED QTZ CRYST TO 0.5 CM	TYPE 2 WELL SULF, MOD FRAC - CHL ON FRACS CO, BLEBBY CUBIC PY TO 0.5 CM; PY AS FRAC FILLS 2-3 MM	9560**	126	2.1	265	124	280	195	77

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EAST CREEK												
683871 RF 8 M DOWN E CRK S FROM L53N ON CL	SULF ARG 3X4 CM ANG BO 60% QTZ 27% FELD 5% ANK 3% SULF 2% FUCHS 3% CHL	W: ORG BRN F: DK GRY	V FI GR MASS, SOOTY, VUGGY	TYPE 2 WELL SIL, LIM QTZ ANK VN TO 2 CM C/W SOOTY, DRUSY FI PY DISSEM, PATCHES FUCHS ON VN MARGINS	<5	0.8	<0.5	28	3	63	4	<2
683872 RF REP 29 20 M DOWN E CRK S FROM L53N ON CL	OXID CRYST TUFF BREC? 15X15 CM ANG BO COMPLETELY OXID 30% QTZ 20% FELD 25% LIM, MN 10% CHL 11% SULFS 4% SER	W: PURP ORG BRN F: DK GRN GRY	FI - CO, VUGGY EARTHY, FRIABLE GRUNGE	TYPE 2 WELL OXID, SULF, CHL PY AS OXID REM, CO CUBIC BLEBS, FI DISSEM NON MAG, NO CARB	15	1.8	0.6	309	10	44	389	3
683873 RF REP 30 37 M DOWN E CRK FROM L53N ON CL	ALT CRYST TUFF BREC C/W 4 CM QTZ ANK VN 30X20 CM ANG BO 65% QTZ 10 % SULFS 15% FELD 5% FUCHS 5% CHL	W: RD - YEL BRN F: WH YEL GRN	FI - CO SUGARY, FRAG	TYPE 3 WELL LIM, MN, SULF STR MAG QTZ ANK VN - 65% QTZ, 5% ANK, 30% BREC FRACS 8% PO AS CO DISSEM BLEB 2% FI DISSEM MET BLK MIN - TET?	<5	0.3	<0.5	44	<2	46	15	<2
683874 RF REP 31 38 M DOWN E CRK FROM L53N ON CL	ALT CRYST TUFF BREC 8X10 CM ANG BO 70% QTZ 5% ANK 5% CHL 5% FUCHS 5% SULFS 10% FELD	W: PURP RED BRN F: BLU GRY	APHAN - CO GLASSY BLU QTZ LOC EARTHY, SOOTY	TYPE 2 WELL SIL, MOD SHEARED WK FRAC C/W QTZ ANK VN TO 1-2 MM DISSEM EUHEH PY & REMS - PY OFTEN RIMS FUCHS PATCHES; SOME SOOTY PY IN FRACTS	403	18.1	0.9	29	46	131	5960	85
683738RF 3 M DOWN E CRK FROM L55N @ 51+24E	ALT CRYST TUFF BREC 15 X 10 CM ANG BO 65% QTZ 18% FELD 6% SULFS 3-4% ANK 2% FUCHS 5% CHL	W: YEL BRN - PURP BRN LIM, MN F: WH PK GRY	APHAN -CO SUGARY	TYPE 3 MOD MAG, MOD FRAC, WELL SIL, CO QTZ VN, SUG, UP TO 3 CM; BNDED LAM, 2-3 MM, C/W DISSEM PATCHES 2% PO 3-4% TET AS BLEBS, NET TEXT	<5	0.5	<0.5	299	<2	9	6	<2

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683739RF 3 M DOWN E CRK FROM L55N @ 51+24E	ALT CYRST TUFF BREC C/W QTZ VN MAT 25 X 14 CM ANG BO 60% QTZ 5% SULF 35% FI ASH	W: YEL BRN - PURP BRN LIM, MN F: WH YEL GRN	APHAN -CO SUGARY	TYPE 3 WELL SIL, NO CARB, NON MAG, WK FRAC, WK CHL QTZ VN FI SUG, EQUIGRAN WH YEL, 2-3 CM WIDE, C/W BLEB PO - 15% LOC BLK MIN IN PATCHES - TET? ADJAC TO PO CTB C/W FI MATRIX, WH QTZ XLS 1MM, 1-2% FI DISSEM PO IN MATRIX	5	0.6	<0.5	328	<2	32	20	2
683742RF 96 M DOWN E CRK FROM L55N ON CL (50+82E, 54+14N)	SULF CYRST TUFF BREC 18 X 10 CM ANG BO 63% QTZ 25% FELD 10% SULFS 2% FUCHS	W: YEL BRN - PURP BRN F: GRY GRN - PK GREY	APHAN - CO SUGARY, FRAG - FRAGS TO 3 CM 15% MM QTZ CRYSTS IN MATRIX	TYPE 3 STRONG MAG, MOD FRAC, WELL SIL, STWK, NO CARB, WELL LIM, BNDED LAMINAE, 2-3 MM QTZ VN IN FRACS C/W GRN FUCHS WELL SULF - 10% DISSEM PO	<5	<0.2	<0.5	67	<2	72	8	<2
683743RF 96 M DOWN E *CRK FROM* L55N ON CL (50+80E, 54+16N)	GRY QTZ VN MAT 18 X 10 CM ANG BO *85% QTZ* 8% CHL AS BNDS 2% SULF IN BLU QTZ 5% LIM, MN	W: YEL BRN - PURP BRN F: BLU GRY - WH *BNDED*	APHAN - CO, BNDED SUGARY, QTZ CRYST *4-5 MM SHOW TERM* EARTHY ON LAM SOM NET TEXT	TYPE 2 WELL CHL, WELL LIM, MN *NO* MAG, *NO* CARB, BNDED - BLU, WH QTZ, DK CHL - 4-5 MM BNDS 4-5% PY, MIN ASPY IN BLU QTZ	65	3.8	<0.5	15	20	82	1090	39
683744RF 85 M DOWN E CRK FROM L55N ON CL (50+87E, 54+23N)	ALT CRYST TUFF BREC 40 X 20 x 15 CM ANG BO 45% QTZ 45% FELD 3% DK MIN - FI 4% FUCHS AS PATCH 3-4% DISSEM SULFS	W: ORG BRN - PURP BRN F: DK GRY - PK GRY	FI - APHAN LAM TEXT - SOM FRAG- FRAGS TO 4 CM	TYPE 4 WELL FRAC C/W QTZ VN 1-2 MM, CROSSCUT LAM MOD MAG, NO CARB, WELL SIL, LIM, MN 4% PO IN VN & AS FI DISSEM 3% SPEC AS FI, DISSEM	<5	<0.2	<0.5	69	3	71	7	2
683745RF 19 M DOWN E CRK FROM L55N ON CL (51+17E, 54+82N)	SULF ASH TUFF 25 X 25 X 10 CM ANG BO 63% FI ASH 15% 1 MM AMPHIB CRYSTS 15% QTZ VN 1-4 MM & STWK 7% SULF	W: YEL BRN - PURP BRN F: DK GRY - PURP BRN	FI - APHAN MATRIX LAM, PORPH TEXT	TYPE 2 WELL SULF, SIL, MOD FRAC, STWK OF QTZ VN MOD FRAC, WK MAG, NO CARB 50% OF PY ALONG LAM 50% OF PY AS FI DISSEM TR ASPY, PO (IRRID)	<5	<0.2	<0.5	59	3	62	13	<2

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683746RF 17 M DOWN E CRK FROM L55N ON CL (51+19E, 54+84N)	ALT ASH TUFF 8 X 6 CM ANG BO 80% FI ASH 18% AMPHIB CRYSTS 2%-3% PY	W: BRN - PURP BRN F: BLU - PURP	FI - APHAN MATRIX GEN MASS	TYPE 2 WK LIM, SER, SIL, NON MAG, NO CARB MOD FRAC, WK MAG, 2-3% PY AS FI DISSEM IN MATRIX	<5	<0.2	<0.5	83	<2	98	3	<2
683740RF 5 M DOWN E CRK FROM L55N ON CL (51+28E, 54+95N)	ALT CRYST TUFF BREC 15 X 20 CM ANG BO 65% QTZ 30% FELD 3% PY 2% CHL	W: ORG BRN - GRN BRN F: PK GRY DK GRY	FI - APHAN MATRIX BREC FRAGS TO 2 CM FRAG - LAM TEXT	TYPE 2 WELL SIL, FRAC, LIM, MOD CHL IN FI LAM NON MAG BREC FRAGS IN WH QTZ VNS VNS 1-5 MM, C/W DISSEM PY	<5	<0.2	<0.5	35	<2	61	<2	4
683695RF REP 39 12 M N OF L55N 10 M E OF CL (51+26E, 55+12N)	ALT CRYST TUFF BREC 20 X 15 CM ANG BO 58% QTZ 10% CHL 10-12% SULFS 18% FELD 2% LIM	W: ORG BRN PURP F: GRN GRY	FI - CO VUGGY	TYPE 2 WELL SIL, CHL, FRAC - UP TO 0.5 CM SMEARS OF PY ON FRACS ; NON MAG QTZ VN TO 2 CM, RIMMED WITH FUCHS, PY MASS SULF VN TO 1.5 CM C/W PY & MIN DK MIN - TET? FUCHS PATCHES & STRING C/W PY; SOM DISSEM PY IN MATRIX	<5	1.1	<0.5	428	<2	21	6	<2
683696RF REP 40 26 M N OF L55N, 15 M E OF CL (51+27E, 55+26N)	ALT CRYST TUFF BREC & BREC QTZ ANK VN 20 X 15 CM ANG BO 77% QTZ 10% FELD 5% SULFS 5% FUCHS 3% LIM	W: YEL BRN RD F: BLU GRY	70% FI - APHAN BLU QTZ VN, SUGARY, BREC 30% SIL CTB - FRAG, FRAGS TO 5 CM VUGGY, EARTHY	TYPE 2 WELL SIL, OXID, SULF MOD FRAC, VUGGY, MOD DEV STWK OF QTZ ANK VN TO 3-4 MM PY VN IN QTZ VN AS DISSEM, CUBES, & SOOTY OXID PY IN VUGS IN CTB	709	71.3	0.5	232	62	69	2480	18
683697RF 3M S OF 683699RF (51+40E, 55+62N)	SHEARED CRYST TUFF 40 X 10 CM ANG BO 45% QTZ 15% CHL 5% SULFS 35% FELD	W: PURP ORG F: GRN BLU	FI - CO, SILKY, EARTHY	TYPE 2 WELL SHEARED, MOD SIL WELL CHL - CHL ON SHEARS WELL MN, WK LIM PY & MIN PO AS FRAC FILLS SOM DISSEM PY, PO; SOM CO BLEBS PY TO 2 MM	5	0.2	<0.5	47	3	69	9	2
683699RF REP 41 70 M UP E CRK 8 M E OF CL FROM L55N (51+41E, 55+65N)	SEMI MASS SULF MATRIX WITH ARG FRAGS 30 X 10 X 10 CM ANG BO 55% QTZ 10% SULFS 5% CHL 25% ARG FRAGS 5% LIM	W: ORG BRN F: BLU GRY	FI - CO BREC, SULF NET TEXT	TYPE 2 WELL SIL, OXID, SULF, LAM - ON MM SCALE SEMI MASS PY, MIN PO MATRIX MOD SHEARED - CHL SLIPS II TO LAM	5	1	1.4	89	5	106	63	<2

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683698RF 70 M UP E CRK 8 M E OF CL FROM L55N (51+41E, 55+65N)	ALT CYRST TUFF BREC 16 X 20 CM ANG BO 55% QTZ 3-5% SULFS 5% ANK 28% FELD 5% CHL 2% TOUR	W: RD BRN F: CREAM YEL PK GRY	FI - CO FRAG - FRAGS TO 6 CM EARTHY, GLASSY	TYPE 3 WELL HEM, SIL, PK K ALT WELL DEV STWK OF QTZ ANK VN C/W NON MAG, DISSEM - BLEB PO RAD TOURM CRYSTS IN VN	<5	<0.2	<0.5	36	<2	53	18	<2
683747RF 30 M UP E CRK ON CL FROM 51+66E ON L56N	BNDED QTZ BREC VN 20 X 10 CM ANG BO 15% CHL 75% QTZ 5% SULF 5% LIM	W: ORG BRN F: WH GRN ORG BRN BNDED	FI, EQUIGRAN SUGARY, VUGGY BNDED	TYPE 2 WELL LIM, CHL, NO CARB NON MAG BNDS OF CHL IN QTZ TO 3 CM SUB II TO QTZ BNDS ON MARGIN C/W 5-7% PY AS DISSEM, CUBES SOM MASS, SEMI MASS PY AS BLEBS, PATCHES; TR ASPY, CPY	298	9.8	<0.5	39	39	60	3090	22
683912R REP 11 2 M E OF CTR L, 92M UP E CRK FROM 51+66E ON L56N	ALT CRYST TUFF BREC FW 1 M COMP OVER W START OF SHEAR IN CRK 58% QTZ 20% FELD 7% SULFS 5% FUCHS 5% CHL 5% LIM	W: ORG BRN F: PK GRY	APHAN - CO EARTHY, MASS SOM GLASSY	TYPE 3 WELL LIM, SULF, SIL WELL DEV QTZ ANK VNS II TO SHEAR - 2-5 MM 30% OF ROCK IS VN FUCHS PATCHES ON SHEAR 7% PO IN VN; FI DISSEM TO SMALL PATCHES IN MATRIX STR MAG	<5	0.6	<0.5	98	3	72	12	<2
683913R ON CL LINE 95 M UP E CRK FROM 51+66E ON L56N	ALT CRYST TUFF BREC FW 1.5 M COMP CONTIG WITH E SIDE OF 683912R 60% QTZ 30% FELD 3-4% SULFS 2-3% FUCHS 5% CHL	W: ORG BRN - PURP BRN F: PK GRY	APHAN - CO EARTHY, MASS SOM GLASSY	TYPE 3 WELL LIM, SULF, SIL WELL OXID MOD SHEAR C/W FUCHS PATCH; 3-4% PO IN VN FOLLOW SHEARING - 15% OF RK IS VN	<5	0.5	<0.5	62	3	50	2	<2
683748RF REP 12 ON CL 100 M UP E CRK FROM 51+66E ON L56N	QTZ VN MAT 15 X 10 CM ANG BO 85% QTZ 6% CHL 3-5% SULFS 5% LIM	W: ORG BRN F: GRY BLU WH	APHAN - CO BNDED, SOOTY, VUGGY REM SULF TEXT	TYPE 2 WELL LIM, SULF, CHL BNDED WITH BLU QTZ VN TO 2 CM & WH QTZ VN TO 3 CM PY IN BLU QTZ VN - PATCHES, LENSES, VN TO 0.5 CM NON MAG, NO CARB	840	16.1	<0.5	35	61	62	8670	45

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683915RF REP 56 125 M UP E CRK ON CL FROM 51+66E ON L56N	ALT CRYST TUFF BREC C/W QTZ VN MAT 20 X 45 CM ANG BO 60% QTZ 17% FELD 10% SULFS 5% FUCHS 5% CHL 2-3% LIM	W: ORG BRN - PURP BRN F: PK MATRIX, GRY VN	APHAN - CO EARTHY, MASS SOM GLASSY	TYPE 3 WELL LIM, SULF, MOD CHL, NO CARB NON MAG 2% SPEC WITH PO 1% PY DISSEM IN CTB QTZ VN AS DISSEM 7% PO AS BLEBS & MASS VN MAT	<5	1.1	<0.5	371	2	28	12	<2
683767RF REP 17 141 M UP E CRK ON CL FROM 51+66E ON L56N	ALT CRYST TUFF BREC 18 X 10 CM ANG BO 55% QTZ 25% FELD 10 FUCHS 5-7% SULF 5% ANK	W: RD BRN PURP BRN F: GRN	APHAN - CO, LOC MASS FRAG - FRAGS TO 2 CM 10% 1-2 MM QTZ CRYSTS	TYPE 2 WELL SIL, LIM, MN; NON MAG WELL SULF, FRAC C/W PY VN TO 0.3 CM IN FRAC 5-7% PY ALSO AS DISSEM, BLEBS	<5	1.3	0.5	409	<2	16	9	<2
683780RF 141 M UP E CRK ON CL FROM 51+66E ON L56N	CRYST TUFF C/W QTZ VN 20 X 10 CM ANG BO 50% QTZ 35% FELD 5% PY 2% SPHAL 3% BIO 5% LIM	W: ORG BRN F: GRY BLK, BNDED WITH WH QTZ VN	APHAN - CO SUGARY, BNDED 1-3 MM QTZ CRYST IN SIL MATRIX	TYPE 1 WELL SIL, LIM, FRAC BNDED WH QTZ VN TO 0.5 CM, MIN SULFS IN QTZ VN NON MAG, NO CARB 4-5% PY ON EDGES OF QTZ VN AS DISSEM 2% CO SPHAL WITH PY	1520	13.6	90.2	106	1740	8880	5510	34
EAST CREEK: AREA OF ICE SHOWING:												
683769R 177 M UP E CRK 3 M W OF CL FROM 51+66E ON L56N	HW TO ICE QTZ VN 1.5 M SW OF 683768R ALT CRYST TUFF BREC HW COMP SAMP 0.5 M WID 55% QTZ 8% FUCHS 3-5% SULF 23% FELD 4% ANK 5% LIM	W: ORG YEL BRN F: PK GRY	APHAN - CO EARTHY 15% QTZ CRYSTS TO 1-2 MM	TYPE 2 WELL LIM, SIL, K ALT MOD SULF, WK FRAC NON MAG 3-5% SULF AS DISSEM PY, VN, STRINGS TO 0.3 CM PY FUCHS ASSOC - IN VNS TO 0.2 CM	<5	0.5	<0.5	92	2	49	5	<2
683768R REP 16 3 M W OF CL, 178.5 M UP E CRK FROM 51+66E ON L56N	ICE QTZ VN IN ALT CRYST TUFF BREC 0.75 M COMP OF QTZ VN & SOM INTERN CTB 40% QTZ 45% FELD 6% SULF 3-4% AL/JAR LIM 5% FUCHS	W: ORG BRN YEL F: GRY WH GRN	FI - EQUIGRAN TO MASS VUGGY, BNDED - WH YEL QTZ VN & DK ALT CRYST TUFF C/W MM QTZ CRYSTS	TYPE 2 WELL OXID - JAR/AL, LIM WELL SULF, FRAC NON MAG, NO CARB WK SER LOC 7-8% PY AS BLEBS DISSEM, STRINGS, MASS VN TO 3 CM	140	3.3	<0.5	29	28	68	564	19

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					<50	4.7	<0.5	38	16	102	7370	23
683763R REP 14 182 M UP E CRK ON CL FROM 51+66E ON L56N	ICE QTZ VN OC QTZ VN UP TO 20 CM WIDE 20 CM COMP SAMP @ 10/80 E APPAR LENGTH >27 M 78% QTZ 15% FUCHS 5-7% PY 2% LIM	W: ORG BRN PURP BRN F: WH GRN ORG	FI - CO SUGARY, VUGGY, EARTHY	TYPE 2 WELL SULF, LIM NO CARB, NON MAG 5-7% PY IN 1 CM MASS PY VN AND IN MM SULF BNDS VN IS BNDED - SULF VN, WH, BLU QTZ, SUG MULTI PHASE ACTIVITY EUHED QTZ CRYSTS TO 4 MM								
683764R 182 M UP E CRK 2 M W OF CL FROM 51+66E ON L56N	HW TO ICE QTZ VN 683763R ALT CRYST TUFF BREC HW COMP SAMP 1 M WID 50% QTZ 10% FUCHS 2-3% SULF 30% FELD 7% ANK	W: ORG BRN BLK F: GRN GRY	FI-CO VUGGY, EARTHY REM SULFS FRAG TEXT - FRAGS TO 3 CM	TYPE 1 WELL LIM, JAR/AL, SIL NAR FUCHS VN IN FRAC WELL FRAC 2-3% FI DISSEM PY	23	0.5	<0.5	10	6	41	227	7
683765R 182 M UP E CRK ON CL FROM 51+66E ON L56N	FW TO ICE QTZ VN 683763R ALT CRYST TUFF BREC HW COMP SAMP 1 M WID 47% QTZ 6% FUCHS 1-2% SULF 40% FELD 5% SER	W: GRN GRY F: DK GRN GRY	FI - CO GEN MASS	TYPE 2 WK LIM, CARB, SHEAR WK SULF, MOD SIL, FRAC, LIM ON FRAC 1-2% DISSEM PY	<5	0.5	<0.5	16	4	88	76	<2
683766R 182 M UP E CRK ON CL FROM 51+66E ON L56N	FW TO ICE QTZ VN 683763R ALT CRYST TUFF BREC HW COMP SAMP 1 M SHEAR 03/78 DEG E 1 M WEST OF 683765R 45% QTZ 5% FUCHS 1-2% SULF 35% FELD 8% CHL 5% LIM	W: ORG BRN - PURP F: GRN GRY	FI - CO SILKY, SHEARED	TYPE 2 WELL LIM, WK MN, WELL SHEARED; CHL SLIPS WITH ANK WELL CHL, MOD SIL QTZ VN II TO SHEAR & X-CUT UP TO 5 CM - NO SULFS UP TO 1-2% PY IN MATRIX	<5	0.4	<0.5	30	4	61	53	11
683761R 187.5 M UP E CRK, 3 M W OF CL FROM 51+66E ON L56N	FW TO ICE QTZ VN ALT CRYST TUFF BREC SHEAR 09/80E FW COMP SAMP 0.5 M WID 1 M WEST OF QTZ VN 60% QTZ TR DISSEM PY 25% FELD 10% CHL 5% LIM	W: ORG BRN - PURP F: PK WH	APHAN - C0 BANDED, SHEARED QTZ CRYSTS TO 2MM IN MATRIX	TYPE 2 WELL LIM, FRAC, SIL, CHL PK K ALT WH BNDED QTZ VN TO 4 CM ALONG SHEAR - BARREN WELL SHEARED WK CHL, CARB IN QTZ VN	<5	0.7	<0.5	15	6	49	71	24

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683762R 187.5 M UP E CRK, 3.5 M W OF CL FROM 51+66E ON L56N	FW TO ICE QTZ VN ALT CRYST TUFF BREC FW COMP SAMP 0.5 M WID 1.5 M WEST OF QTZ VN 30% QTZ TR DISSEM PY 45% FELD 15% BIO 5% SER 5% LIM	W: ORG BRN F: BLU GRY	FI, EQUIGRAN, BNDED	TYPE 2 WELL LIM, PK BNDS OF PK K ALT & DK MICA BANDS NO QTZ VN NO CARB, NON MAG WELL SHEARED	<5	0.4	<0.5	27	3	58	18	13
683749RF 193 M UP E CRK ON CL FROM 51+66E ON L56N	ICE QTZ VN MAT 20 X 10 CM ANG BO 84% QTZ 7% CHL 1-2% SULFS 2% SER 3% FUCHS 2% LIM	W: ORG BRN F: YEL BLU GRY	APHAN - CO, GLASSY VUGGY	TYPE 2 WELL LIM, MOD CHL WK SULF, SER NO CARB, NON MAG VUGGY VN, DISSEM PY, GRN CHL FUCHS PATCHES, STRINGS	<5	<0.2	<0.5	37	<2	32	23	<2
683760R 3 M W OF CL, 198.5 M UP E CRK FROM 51+66E ON L56N	ALT CRYST TUFF BREC; HW FOR ICE QTZ VN 683758R SHEARED 10 CM WIDE COMP SAMPLE 5% SER 20% QTZ 60% FELD <1% PY 5% FUCHS 10% CHL	W: RED BRN PURPLE F: GRN	APHAN - CO EARTHY, GRUNGY VUGGY	TYPE 2 WELL SHEARED, CHL NON MAG, MIN CARB BLU GRY QTZ VN TO 1 CM, 2-3% PY BLEBS, MIN PY IN VN	10	0.5	<0.5	9	7	73	258	2
683758R 199 M UP E CRK 3 M W OF CL FROM 51+66E ON L56N	ICE QTZ VN OC QTZ VN UP TO 10 CM WIDE COMP SAMP @ 10/88 E 76% QTZ 5% BIO? 9% SULFS 10% FUCHS	W: ORG BRN RD YEL F: WH GRN BLU	MED - CO VUGGY, EUHED QTZ CRYST IN VUGS	TYPE 2 WELL SULF, LIM NON MAG, MIN CARB BNDED - PY, BLK MIN - BIO? FUCHS AS PATCHES 9% PY IN SEMI MASS VN TO 1 CM	<50	7	2.8	35	12	334	185	11
683759R 199 M UP E CRK 3 M W OF CL FROM 51+66E ON L56N	FW TO ICE QTZ VN 683758R ALT CRYST TUFF BREC COMP SAMP 10 CM WID 5% SER 20% QTZ 60% FELD <1% PY 5% FUCHS 10% CHL	W: RED BRN PURP F: GRN	APHAN - CO EARTHY, GRUNGY VUGGY	TYPE 2 WELL SHEARED, CHL NON MAG, MIN CARB BLU GRY QTZ VN TO 1 CM, 2-3% PY BLEBS, MIN PY IN VN	22	1.2	0.5	23	6	120	259	5

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683757R 202 M UP E CRK 4 M W OF CL FROM 51+66E ON L56N	QTZ VN OC FLAT QTZ VN 12 CM WIDE COMP SAMP @ 200/ 8E 85% QTZ 5% SER 4% SULFS 5-7% FUCHS	W: ORG BRN F: WH BLU GRY	CO, MASSIVE, GLASSY SUGARY - VUGGY	TYPE 2 WELL SULF, NO CARB WK MAG LOC, WELL LIM, MOD SER 3% PY, 1% PO AS DISSEM, PATCHES, 1 CM PO VN	<50	2.6	<0.5	20	6	74	161	11
683756R 215 M UP E CRK ON CL FROM 51+66E ON L56N	CRYST TUFF BREC WR OC COMP SAMP 28% QTZ 65% FELD 5% CHL 2-3% PY 1% FUCHS	W: BUFF BRN F: PK GRY	GEN FI - APHAN, SOM EQUIGRAN	TYPE 2 PK K ALT; MOD SIL, WELL FRAC - QTZ VN UP TO 0.5 CM, BARREN WELL SHEARED 1-2% FI DISSEM PY	<5	0.5	<0.5	14	2	56	15	<2
683755R 225 M UP E CRK ON CL FROM 51+66E ON L56N @ 90 DEG FOR 30 M	ALT CRYST TUFF BREC OC TRENDS 175 SHEAR @ 05/80E 53% QTZ 30% FELD 10% CHL 2-3% FUCHS 5% PO	W: ORG BRN F: PK, GRN	APHAN - CO, FRAG - SOM FRAGS TO 3-4 CM BRASSY QTZ CRYSTS TO 1-2 MM	TYPE 3 WELL SIL, SULF, LIM MOD SHEARED MIN MN, PK POT ALT WELL MAG, NO CARB HEAVY BLEB PO & AS	<5	0.5	<0.5	71	6	43	54	3
683753R 230 M UP E CRK 6 M W OF CL FROM 51+66E ON L56N	ALT CRYST TUFF WR COMP SAMP SHEAR 12/80-85E 60% QTZ 30% FELD <1% FI PY 9% SER	W: ORG BRN F: PK GRY	APHAN - CO EARTHY 15% QTZ CRYSTS 1-2 MM	TYPE 2 WELL SIL, LIM, NON MAG, NO CARB PK K ALT? MOD SHEARED, FRAC WELL SER MIN DISSEM PY	<5	0.4	<0.5	22	3	67	7	<2
683754R 230 M UP E CRK 6 M W OF CL FROM 51+66E ON L56N	ALT CRYST TUFF WR COMP SAMP 50% QTZ 30% FELD 5% SULF 10% CHL 5% LIM	W: ORG BRN F: GRY BLK	APHAN - CO EARTHY, SILKY BLK QTZ CRYSTS 1-2 MM	TYPE 3 WELL SIL, LIM, STR MAG, NO CARB WELL CHL, SHEARED 5% BLEBS, DISSEM PO	<5	0.3	<0.5	46	4	110	10	3
683771RF 249 M UP E CRK ON CL FROM 51+66E ON L56N	QTZ VN MAT 20 X 15 CM ANG BO 70% QTZ 10% ANK 15% CHL 3% FUCHS 2-3% SULFS	W: ORG BRN F: GRN BLU	FI - APHAN - DENSE KNOBBY SURF VUGGY, SUGARY	TYPE 2 WELL LIM, SHEARED, FRAC, OXID SULFS BANDED: WH QTZ VN TO 2 CM GRY QTZ VN TO 1 CM NAR OXID VN CW PY; <1% TET? CHL FRAC C/W SLICKS	<5	0.7	<0.5	60	6	67	10	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
EAST CREEK: UPPER ICE 1 SHOWING												
683787R 326 M UP E CRK ON CL FROM 51+66E ON L56N	QTZ VN - UPPER ICE 1 COMP SAMP OVER 7 CM IN NAR SHEAR ZONE: 30/78E 50% QTZ 4-5% DISS PO PATCH VG?? 3-4% FUCHS 35% FELD 5% CHL 2-3% ANK	W: ORG BRN PURP F: BLU GREY - GRN GRY	FI - CO SUGARY	TYPE 3 WELL SIL, SHEARED STR MAG BND WH, BLU QTZ & ANK 4-5% DISSEM PO & MINOR SMALL PATCHES SMALL PATCH VG?	<5	0.6	<0.5	143	2	30	11	<2
683788RF 326 M UP E CRK ON CL FROM 51+66E ON L56N	QTZ VN MAT 16 X 8 CM ANG BO 85% QTZ 10% CH 5% SULFS	W: ORG BRN PURP F: GRN GRY WH	FI, SUGARY, VUGGY	TYPE 2 WELL CHL, MOD SULF - PY AS DISS BLEBS MOD CHL, NO CARB, MOD SHEARED C/W CHL BND NON MAG	<5	0.3	<0.5	83	<2	15	2	<2
683773RF 364 M UP E CRK ON CL FROM 51+66E ON L56N	ALT CRYST TUFF BREC 40 X 20 X 10 CM ANG BO 50% QTZ 30% FELD 3% CHL 5% SULFS 3-4% ANK 2-3% FUCHS 5% SER	W: ORG BRN F: PK, GRY	FI - CO, BNDED GRUNGY, EARTHY VUGGY	TYPE 2 WELL SIL, FRAC - PY IN VN, COATINGS ON FRACS WELL LIM, MN REM & DRUSY PY LOC 10% PK GRY BND - K ALT? NAR QTZ VN TO 0.5 CM AS FAIRLY WELL DEV STWK	<5	0.5	<0.5	142	3	44	7	<2
EAST CREEK: UPPER ICE 2 SHOWING												
683774R REP 15 382 M UP E CRK ON CL FROM 51+66E ON L56N	QTZ VN - UPPER ICE 2 COMP SAMP OVER 30 CM IN 3 M WIDE SHEAR ZONE 28/64E 80% QTZ 7% SULFS 3% FUCHS 5% LIM 5% CHL	W: ORG BRN F: BLU GREY	FI - CO VUGGY, EARTHY GLASSY BLU QTZ	TYPE 2 WELL LIM, SULF SOM BND TO 2 CM OF CHL, FUCHS, BLUE QTZ 7-8% PY AS FI DISSEM, BLEBS INTERSTIT TO BLU, WH QTZ GRAINS REM SULFS IN OXID AREA	70	2.3	0.8	13	12	91	499	17
683776R REP 18 383 M UP E CRK ON CL FR L56N GO 30 M @ 80 DEG	ALT CRYST TUFF BREC IN EAST CLIFF OC 55% SIL 30% FELD 5% ANK 5% CHL 5% FUCHS TR PY, MINOR JAR/AL	W: ORG BRN F: GRY PK	GEN FI, BNDED FRAG - FRAGS TO 4 CM	TYPE 2 WELL LIM, SIL, SHEARED TR PY, FUCHS ON FRACS BNDED - ANK VN, FUCHS, CHL IN II FRACS	<5	0.7	<0.5	30	2	62	17	<2

NUMBER, REP. NO., LOCATION	NAME, TYPE, COMPOSITION	COLOUR (WEATHERED, FRESH)	GRAIN SIZE, TEXTURE	MINERALIZATION TYPE, ALTERATION, COMMENTS	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
683778R REP 19 383 M UP E CRK ON CL FROM 51+66E 51+66E ON	ALT CRYST TUFF BREC HW FOR SAMP 683774R COMP SAMP OVER 30 CM 55% QTZ 30% FELD 5% FUCHS 5% DISSEM SULFS 5% LIM	W: ORG BRN F: BLU GRY	APHAN - CO EARTHY, VUGGY	TYPE 2 WELL LIM, SIL; MOD FRAC MAINLY FI, DISSEM PY, BUT SOOTY, EARTHY ON FRACS & IN VUGS	9	1.5	0.5	35	12	115	184	10
OLD HWY 37A SAMPLES												
683751RF REP 10 R1+00E *26 M N OFOLD* HWY 37A CL	ALT TUFF BREC 20 X 15 CM ANG BO 40% QTZ 5% SER 50% FELD 3-4% SOOTY PY IN VNS & STRINGS TO 0.5 CM TR SOOTY BORN? TR PO - LOC MAG	W: ORG BRN F: GRN GREY	FI, SOOTY - CO VUGGY	TYPE 2 WKLY SIL, MOD SER, LIM, JAR/AL *STR FRAC IN ONE DIR - PY* SEAMS UP TO 0.5 CM 3-4% DRUSY PY & IN FRACS TR WK MAG PO	15	2.3	<0.5	37	19	80	249	21
683752RF R3+33E 5 M N OF OLD HWY 37A CL	ALT TUFF BREC ANG BO: 1 X 1 X 1.5 M 50% QTZ 30% FELD 10% SER 3-4% SULFS 6% LIM	W: BRN GRN, F: BUFF GRY BLK	GEN FI - APHAN GLASSY, FRAG	TYPE 2 WELL OXID, SIL, FRAC INCL STWK QTZ VN TO 2 MM *NO CARB, LOC MAG* 3-4% DISSEM PY & MIN PO IN MATRIX	<5	0.6	<0.5	77	8	134	<2	<2

*ABBREVIATIONS	CSV1 MOD FTABVF
@	AT
ABUND	ABUNDANT
ALT	ALTERED
AMPHIB	AMPHIBOLITE
ANK	ANKERITE
ANG	ANGULAR
APHAN	APHANITIC
ARG	ARGILLITE
ASPY	ARSENOPYRITE
ASSOC	ASSOCIATED
BIO	BIOTITE
BLEB	BLEBBY
BLK	BLACK
BLU	BLUE
BNDS	BANDS
BNDED	BANDED
BORN	BORNITE
BO	BOULDER
BREC	BRECCIA
BRIDG	BRIDGE
BRN	BROWN
CARB	CARBONATE
CHL	CHLORITE
CL	CONTROL LINE
CM	CENTIMETER
CO	COARSE
COMP	COMPOSITE
CPY	CHALCOPYRITE
CRK	CREEK
CRYSTS	CRYSTALS
CTB	CRYSTAL TUFF BRECCIA
C/W	COMPLETE WITH
DEG	DEGREES
DEV	DEVELOPED
DIR	DIRECTION
DISSEM	DISSEMINATED
E	EAST
EPID	EPIDOTE
EQUIGRAN	EQUIRGANULAR
EUHED	EUHEDRAL
FELD	FELDSPAR
FI	FINE
FLO	FLOW
FRACS	FRACTURES
FRAGS	FRAGMENTS
FUCHS	FUCHSITE
GEN	GENERALLY
GRAV	GRAVEL
GRN	GREEN
GRY	GREY
HEM	HEMATIZED
HWY	HIGHWAY
INCL	INCLUDING
INTERN	INTERNAL
INTERSTIT	INTERSTITIAL
IRRID	IRRIDESENCE
JAR/AL	JAROSITE/ALUNITE
K	POTASSIC
LAM	LAMINATED, LAMINATIONS
LG	LARGE
LIM	LIMONITIZED
L	LINE
LOC	LOCALLY
MAG	MAGNETIC
MARG	MARGIN
MASS	MASSIVE
MAT	MATERIAL
MED	MEDIUM
M	METER
MM	MILLIMETER
MID	MIDDLE
MIN	MINOR
MN	MANGANESE
MV1	TAG ALDERS, DEVILS CLUB VEGETATION
MV2	FIR, BIRCH, FERN VEGETATION
MV3	GRASS VEGETATION
MOD	MODERATE
NAR	NARROW
N	NORTH
OC	OUTCROP
ORGE	ORANGE
OXID	OXIDIZED
||	PARALLEL
ppb	PARTS PER BILLION
ppm	PARTS PER MILLION
PEBS	PEBBLES
PK	PINK
PO	PYRRHOTITE
PURP	PURPLE
PY	PYRITE
QTZ	QUARTZ
QTZ MON	QUARTZ MONZONITE
RD	RED
REP	REPRESENTATIVE SAMPLE
RESIN	RESINOUS
RF	ROCK FLOAT
RHY	RHYOLITE
R	ROCK
SAMP	SAMPLE
SER	SERICITE
SIL	SILICIFIED
SD	SAND
S	SOUTH
SLICKS	SLICKENSLIDES
SO	SOIL SAMPLE
SOM	SOME
SPEC	SPECULAR HEMATITE
SPHAL	SPHALERITE
STR	STRONG
STRINGS	STRINGERS
STWK	STOCKWORK
SUG	SUGARY
SULFS	SULFIDES
SURF	SURFACE
TET	TETRAHEDRITE
TEXT	TEXTURE
TOUR	TOURMALINE
TR	TRACE
TRIB	TRIBUTARY
VG	VISIBLE GOLD
VN	VEIN
W	WEST
WH	WHITE
WID	WIDTH
WR	WALL ROCK
WK	WEAK
YEL	YELLOW

7050** AVERAGE VALUE OF CHEMEX ANALYTICAL RESULTS

TABLE A3.1

ROCK SAMPLE TYPES, MINERALIZTION TYPES

AND MES ANALYTICAL RESULTS

TABLE A3.1

ROCK SAMPLES: ROCK TYPES*, MINERALIZATION TYPES**, MULTI ELEMENT SIGNATURE ANALYSES WITH ANOMALOUS VALUES SHOWN IN BOLD***:

TABLE A3.1
AA1544

SAMPLE NUMBERS:	ROCK TYPE, MINERALIZATION TYPE:	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
BASELINE 50+00E (S TO N):									
683977RF	S1, TYPE 3	<5	<0.2	<0.5	**70**	5	110	<2	<2
683978RF	S1, TYPE 2	8	**0.6**	<0.5	24	12	26	**351**	**5**
683805RF	H3, TYPE 3	<5	**0.5**	<0.5	**127**	3	55	2	<2
683808RF	H3, TYPE 2	<5	**0.4**	<0.5	44	3	33	6	**5**
683809RF	H3, TYPE 3	<5	**0.5**	<0.5	**45**	2	82	18	<2
683810RF	H3, TYPE 2	6	**2.4**	<0.5	**57**	**17**	78	**128**	**26**
683812RF	S1, TYPE 3	<5	**0.9**	<0.5	**76**	5	108	4	**4**
683815RF	H3, TYPE 3	<5	**0.4**	<0.5	**55**	2	55	6	<2
683721RF	H3, TYPE 2	**1900**	**87.7**	0.6	**136**	**57**	63	**1505**	**20**
683822RF	H3, TYPE 3	<5	**0.5**	<0.5	**51**	6	55	**33**	2
683823RF	H3, TYPE 3	<5	**0.7**	0.5	25	**14**	39	13	<2
683845RF	H3, TYPE 2	**13**	**1.4**	**0.7**	**45**	10	78	12	<2
683847RF	H3, TYPE 3	<5	**0.6**	<0.5	42	8	56	9	<2
683846RF	H3, TYPE 3	<5	**0.9**	0.5	34	7	**133**	2	<2
683848RF	H3, TYPE 3	<5	<0.2	<0.5	4	5	100	2	<2
683849RF	H3, TYPE 3	<5	**0.9**	<0.5	**24**	7	57	3	<2
683850RF	QVM, TYPE 3	<5	**0.5**	<0.5	**60**	3	16	<2	2
683877RF	H3, QVM, TYPE 3	9	<0.2	<0.5	18	2	52	3	<2
683879RF	H3, TYPE 3	<5	**0.4**	<0.5	21	7	91	9	<2
683880RF	H3, TYPE 3	<5	**0.5**	<0.5	20	5	49	10	<2
683882RF	H3, TYPE 3	<5	0.3	<0.5	35	6	48	5	<2
683878RF	H2, TYPE 3	<5	**0.7**	<0.5	34	10	42	5	<2
683881RF	H2, TYPE 2	<5	<0.2	<0.5	29	<2	55	<2	<2
683884RF	H2, TYPE 3	<5	**0.6**	0.5	11	**15**	77	6	<2
683886RF	H3, TYPE 2	<5	<0.2	<0.5	16	2	68	<2	<2
683888RF	H3, TYPE 3	<5	0.3	<0.5	11	6	59	2	<2
683889RF	H3, TYPE 2	<5	**0.5**	<0.5	26	8	55	4	<2
683890RF	H3, TYPE 3	<5	<0.2	<0.5	10	7	40	5	<2
683892RF	S1, TYPE 2	<5	**0.6**	**0.8**	**57**	8	90	12	2
683893RF	QVM, TYPE 2	**885**	**6.8**	**1.9**	43	**140**	**147**	**1285**	**21**
LINE 51N (W TO E)									
683991RF	S1, TYPE 3	<5	**0.7**	**1.2**	**80**	5	**144**	<2	<2
683982RF	H3, TYPE 3	8	**1.3**	**1.8**	**648**	4	55	9	<2
683981RF	H3, TYPE 2	<5	<0.2	<0.5	32	<2	49	**261**	2
LINE 52N (W TO E)									
683916R	H3, TYPE 3	<5	<0.2	<0.5	23	3	39	2	<2
683919RF	H2, TYPE 4	**24****	<0.2	**0.8**	**133**	4	66	4	<2
683922RF	H6, TYPE 2	<5	<0.2	<0.5	**186**	3	46	23	<2
683924RF	H3, TYPE 3	<5	**0.4**	**0.7**	32	6	88	7	<2
683938RF	QVM, TYPE 3	<5	0.3	<0.5	**246**	3	21	15	<2
683931RF	H3, TYPE 3	7	**0.4**	<0.5	26	5	21	3	<2
LINE 53N (W TO E)									
683865RF	S1, TYPE 3	<5	**0.6**	<0.5	31	3	80	<2	<2
683866RF	H3, TYPE 3	**12**	**0.6**	0.5	**108**	9	35	**104**	**5**

ROCK SAMPLES: ROCK TYPES*, MINERALIZATION TYPES, MULTI ELEMENT SIGNATURE ANALYES WITH ANOMALOUS VALUES SHOWN IN BOLD*****:**

TABLE A3.1
AA1544

SAMPLE NUMBERS:	ROCK TYPE, MINERALIZATION TYPE:	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
LINE 54N (W TO E)									
683826R	H3, TYPE 3	<5	**0.5**	<0.5	**65**	<2	46	4	<2
683828RF	H3, TYPE 3	**795**	**0.8**	<0.5	**45**	**17**	16	2	3
683829RF	H3, TYPE 3	**32**	**2.2**	<0.5	**158**	5	120	7	<2
683704RF	H3, TYPE 3	<5	<0.2	<0.5	20	2	84	<2	3
683705RF	QVM, H3, TYPE 3	<5	**0.4**	<0.5	**204**	<2	17	11	<2
683706RF	QVM, H3, TYPE 3	<5	**0.9**	0.6	**333**	<2	37	10	3
683707RF	QVM, S1, TYPE 3	<5	<0.2	<0.5	19	2	68	**81**	<2
683708RF	H3, TYPE 2	<5	<0.2	<0.5	**55**	<2	67	4	2
683711RF	H3, TYPE 3	<5	<0.2	<0.5	37	<2	92	10	2
683712RF	H3, TYPE 3	<5	**0.6**	**0.9**	**450**	<2	20	10	<2
LINE 55N (W TO E)									
683684RF	H3, TYPE 4	<5	<0.2	<0.5	11	2	115	<2	<2
683685RF	H3, TYPE 2	<5	<0.2	<0.5	21	5	88	5	<2
683906RF	H3, TYPE 3	<5	0.3	<0.5	**98**	2	9	8	<2
683910RF	H2, TYPE 3	<5	**0.5**	<0.5	**102**	<2	66	18	<2
LINE 56N (W TO E)									
683899RF	H4, TYPE 3	<5	0.2	**1.4**	**441**	6	**173**	<2	<2
683658RF	H3, TYPE 2	**36**	**1.8**	**5.7**	**81**	**80**	**332**	**799**	**5**
683663RF	H3, TYPE 2	**79**	**0.6**	**1.3**	21	6	117	**595**	**10**
HIGHWAY ZONE CRK (S TO N):									
683942RF	QVM, TYPE 3	<5	0.2	<0.5	**132**	2	39	4	<2
683943RF	QVM, TYPE 1	**7050****	**209**	**30.8**	**869**	**406**	**2460**	**590**	**111**
683944R	H3, TYPE 2	**12**	0.3	<0.5	**57**	4	77	<2	<2
683734RF	QVM, SMS, TYPE 3	**38**	**1.6**	**2**	**1250**	<2	31	**478**	<2
683735RF	S1, TYPE 2	<5	**0.6**	<0.5	**96**	3	37	**37**	**5**
683737RF	H3, TYPE 3	**112**	**0.8**	<0.5	**443**	<2	37	**37**	<2
683945RF	S1, TYPE 2	**11**	**0.6**	<0.5	**111**	9	30	10	**4**
683736RF	QVM, TYPE 2	**289**	**8.1**	0.6	**70**	**42**	66	**287**	7
683733RF	QVM, TYPE 3	<5	**0.5**	<0.5	**56**	2	42	5	<2
683946RF	H3, QVM, TYPE 3	<5	0.3	<0.5	**82**	3	37	11	<2
683947RF	QVM, SMS, TYPE 3	**22**	**3**	**2.3**	**4310**	<2	25	3	<2
683948RF	QVM, SMS, TYPE 3	**37**	**14**	0.6	**4660**	2	48	5	<2
683949RF	H3, QVM, TYPE 3	<5	0.2	<0.5	**303**	<2	26	**195**	<2
683950RF	H3, QVM, SMS, TYPE 3	8	**3.8**	1	**524**	2	32	9	2
683782RF	QVM, TYPE 1	**9287****	**604**	**4.4**	**1070**	**335**	**162**	**539**	**198**
683783RF	H3, TYPE 2	**10**	**1.3**	<0.5	27	6	71	5	<2
683784RF	H3, QVM, TYPE 3	**15**	**1.1**	<0.5	**86**	2	15	**32**	2
683785R	H2, TYPE 2	8	**0.6**	0.5	34	9	97	6	<2
683786RF	QVM, TYPE 3	**18**	**0.9**	<0.5	**191**	2	13	18	<2
683789RF	QVM, TYPE 3	<5	**0.7**	<0.5	**210**	9	15	7	<2
683790RF	S1,TYPE 2	7	**1.4**	<0.5	**78**	11	21	20	3
683791RF	QVM, TYPE 2	**630**	**11.5**	<0.5	15	**403**	67	**2170**	**33**
683651RF	QVM, TYPE 3	**333**	**1.6**	<0.5	**731**	2	31	10	<2
683792R	H3, TYPE 3	<5	**1.3**	<0.5	20	**15**	94	10	<2
683793RF	QVM, TYPE 1	**14750**	**791**	**218**	**4070**	**444**	**15200**	**3310**	**368**
683795RF	H3, QVM, TYPE 2	**9560****	**126**	**2.1**	**265**	**124**	**280**	**195**	**77**

ROCK SAMPLES: ROCK TYPES*, MINERALIZATION TYPES, MULTI ELEMENT SIGNATURE ANALYES WITH ANOMALOUS VALUES SHOWN IN BOLD*****:**

TABLE A3.1
AA1544

SAMPLE NUMBERS:	ROCK TYPE, MINERALIZATION TYPE:	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
EAST CREEK (S TO N):									
683871 RF	S1, TYPE 2	<5	**0.8**	<0.5	28	3	63	4	<2
683872 RF	H3, TYPE 2	**15**	**1.8**	0.6	**309**	10	44	**389**	3
683873 RF	H3, QVM, TYPE 3	<5	0.3	<0.5	**44**	<2	46	15	<2
683874 RF	H3, TYPE 2	**403**	**18.1**	**0.9**	29	**46**	**131**	**5960**	**85**
683738RF	H3, TYPE 3	<5	**0.5**	<0.5	**299**	<2	9	6	<2
683739RF	H3, QVM, TYPE 3	5	**0.6**	<0.5	**328**	<2	32	20	2
683742RF	H3, TYPE 3	<5	<0.2	<0.5	**67**	<2	72	8	<2
683743RF	QVM, TYPE 2	**65**	**3.8**	<0.5	15	**20**	82	**1090**	**39**
683744RF	H3, TYPE 4	<5	<0.2	<0.5	**69**	3	71	7	2
683745RF	H4, TYPE 2	<5	<0.2	<0.5	**59**	3	62	13	<2
683746RF	H4, TYPE 2	<5	<0.2	<0.5	**83**	<2	98	3	<2
683740RF	H3, TYPE 2	<5	<0.2	<0.5	35	<2	61	<2	**4**
683695RF	H3, TYPE 2	<5	**1.1**	<0.5	**428**	<2	21	6	<2
683696RF	H3, QVM, TYPE 2	**709**	**71.3**	0.5	**232**	**62**	69	**2480**	**18**
683697RF	H2, TYPE 2	5	0.2	<0.5	**47**	3	69	9	2
683699RF	S1, SMS, TYPE 2	5	**1**	**1.4**	**89**	5	1	**63**	<2
683698RF	H3, TYPE 3	<5	<0.2	<0.5	36	<2	53	18	<2
683747RF	QVM, TYPE 2	**298**	**9.8**	<0.5	39	**39**	60	**3090**	**22**
683912R	H3, TYPE 3	<5	**0.6**	<0.5	**98**	3	72	12	<2
683913R	H3, TYPE 3	<5	**0.5**	<0.5	**62**	3	50	2	<2
683748RF	QVM, TYPE 2	**840**	**16.1**	<0.5	35	**61**	62	**8670**	**45**
683915RF	H3, TYPE 3	<5	**1.1**	<0.5	**371**	2	28	12	<2
683767RF	H3, TYPE 2	<5	**1.3**	0.5	**409**	<2	16	9	<2
683780RF	H2, QVM, TYPE 1	**1520**	**13.6**	**90.2**	**106**	**1740**	**8880**	**5510**	**34**
EAST CREEK: AREA OF UPPER ICE SHOWING (S TO N):									
683769R	H3, TYPE 2	<5	**0.5**	<0.5	**92**	2	49	5	<2
683768R	H3, QVM, TYPE 2	**140**	**3.3**	<0.5	29	**28**	68	**564**	**19**
683763R	QVM, TYPE 2	<50	**4.7**	<0.5	38	**16**	102	**7370**	**23**
683764R	H3, TYPE 1	**23**	**0.5**	<0.5	10	6	41	**227**	**7**
683765R	H3, TYPE 2	<5	**0.5**	<0.5	16	4	88	**76**	<2
683766R	H3, TYPE 2	<5	**0.4**	<0.5	30	4	61	**53**	**11**
683761R	H3, TYPE 2	<5	**0.7**	<0.5	15	6	49	**71**	**24**
683762R	H3, TYPE 2	<5	**0.4**	<0.5	27	3	58	16	**13**
683749RF	QVM, TYPE 2	<5	<0.2	<0.5	37	<2	32	23	<2
683760R	H3, TYPE 2	**10**	**0.5**	<0.5	9	7	73	**258**	2
683758R	QVM, TYPE 2	<50	**7**	**2.8**	35	12	**334**	**185**	**11**
683759R	H3, TYPE 2	**22**	**1.2**	0.5	23	6	120	**259**	**5**
683757R	QVM, TYPE 2	<50	**2.6**	<0.5	20	6	74	**161**	**11**
683756R	H3, TYPE 2	<5	**0.5**	<0.5	14	2	56	15	<2
683755R	H3, TYPE 3	<5	**0.5**	<0.5	**71**	6	43	**54**	3
683753R	H2, TYPE 2	<5	**0.4**	<0.5	22	3	67	7	<2
683754R	H2, TYPE 3	<5	0.3	<0.5	**46**	4	110	10	3
683771RF	QVM, TYPE 2	<5	**0.7**	<0.5	**60**	6	67	10	<2

ROCK SAMPLES: ROCK TYPES*, MINERALIZATION TYPES, MULTI ELEMENT SIGNATURE ANALYES WITH ANOMALOUS VALUES SHOWN IN BOLD***:**

TABLE A3.1
AA1544

SAMPLE NUMBERS:	ROCK TYPE, MINERALIZATION TYPE:	AU (ppb)	AG (ppm)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
EAST CREEK: UPPER ICE 1 SHOWING:									
683787R	QVM, TYPE 3	<5	**0.6**	<0.5	**143**	2	30	11	<2
683788RF	QVM, TYPE 2	<5	0.3	<0.5	**83**	<2	15	2	<2
683773RF	H3, TYPE 2	<5	**0.5**	<0.5	**142**	3	44	7	<2
EAST CREEK: UPPER ICE 2 SHOWING:									
683774R	QVM, TYPE 2	**70**	**2.3**	**0.8**	13	12	91	**499**	**17**
683776R	H3, TYPE 2	<5	**0.7**	<0.5	30	2	62	17	<2
683778R	H3, TYPE 2	9	**1.5**	0.5	35	12	115	**184**	**10**
OLD HWY 37A SAMPLES									
683751RF	H3, TYPE 2	**15**	**2.3**	<0.5	37	**19**	80	**249**	**21**
683752RF	H3, TYPE 2	<5	**0.6**	<0.5	**77**	8	**134**	<2	<2

*ROCK TYPES

H2: CRYSTAL TUFF
H3: CRYSTAL TUFF BRECCIA
H4: ASH TUFF
H6: RHYOLITE
S1: ARGILLITE
QVM: QUARTZ VEIN MATERIAL
SMS: SEMI MASSIVE SULFIDES

**MINERALIZATION TYPES

TYPE 1: PY, ASPY, SPHAL, CPY, GAL
TYPE 2: PY, ASPY
TYPE 3: PO +/- CPY
TYPE 4: SPEC

***ANOMALOUS VALUES BASED ON GEOFINE REGIONAL THRESHOLD CRITERIA
OF 10 ppb Au, 0.4 ppm Ag, 0.7 ppm Cd, 45 ppm Cu, 15 ppm Pb, 130 ppm Zn, 24 ppm As, 4 ppm Sb

7050**** Average Au value calculated from Chemex analytical results.

TABLE A3.2

MINERALIZATION, ROCK TYPES

TABLE A3.2

TABLE A3.4

ROCK GEOCHEMICAL SURVEY: MINERALIZATION TYPES BY HOST ROCK TYPES

MINERALIZATION TYPE:	NO OF SAMPLES, (%)	NO OF SAMPLES BY ROCK TYPE*: S1	H2	H3	H4	H6	QVM	SIQVM	H2QVM	H3QVM
TYPE 1 (Au, Ag, Cd, Cu, Pb, Zn, As, Sb)	5 (4)			1			3		1	
TYPE 2 (Au, Ag, As, Sb +/- Cu, Pb, Zn)	61 (45)	7	4	31	2	1	13			3
TYPE 3 (Cu +/- Au, Ag, As)	65 (49)	4	4	35	1		11	1		9
TYPE 4 (+/- Au, Cu)	3 (2)		1	2						2
TOTALS:	134 (100)	11	9	69	3	1	27	1	1	12
%		8	7	51	2	1	20	1	1	9

*ABBREVIATIONS:

TABLE A3.3

MES ANALYTICAL RESULTS FOR HIGHWAY ZONE CREEK

HISTORICAL AND 2002 HIGHER-GRADE

TYPE 1 AND TYPE 2

POLYMETALLIC MINERALIZATION

TABLE A3.3

CSV1 MODFTABFT
AR1745

MULTI ELEMENT SIGNATURE ANALYTICAL RESULTS FOR HIGHWAY ZONE CREEK HISTORICAL AND 2002 HIGHER GRADE POLYMETALLIC MINERALIZATION* WITH ANOMALOUS VALUES SHOWN IN BOLD:**

SAMPLE NUMBERS; LOCATION IN HIGHWAY ZONE CRK; YEAR (S TO N):	ROCK***, MINERALIZATION TYPES****:	AU (g/t)	AG (g/t)	CD (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	SB (ppm)
38342; CL50+30N, 35E; 1992	H6, TYPE 1	**10.45**	**170.1**	**68.4**	**2044**	**327**	**4243**	**1177**	**48**
38343; CL50+30N, 35E; 1992	H6, TYPE 1	**3.83**	**68.4**	**18.5**	**453**	**225**	**1532**	**621**	**22**
686751; CL51+10N; 2000	QVM, SMS, TYPE 1	**33.7**	**5895**	**153.5**	**14200**	**4500**	**11900**	**10000**	**9700**
686752; CL51+10N; 2000	QVM, TYPE 2	**9.9**	**41.2**	**4**	**251**	**166**	**404**	**10000**	**48**
38415; CL51+90N; 1992	QVM, TYPE 1	**56.85**	**520**	**22.5**	**5964**	**968**	**1867**	**512**	**125**
38999; CL52+70N; 1992	QVM; TYPE 1	**26.8**	**13**	**100**	**10030**	**3525**	**49300**	**622**	**177**
38425; CL52+85N; 1992	QVM; TYPE 1	**2.21**	**117.8**	**38.8**	**600**	**2100**	**11500**	**10000**	**27**
683943RF; CL52+88N; 2002	QVM, TYPE 1*****	**7.05**	**209**	**30.8**	**869**	**406**	**2460**	**590**	**111**
38423; CL52+90N; 1992	QVM, TYPE 1	**8.9**	**462**	**71.9**	**6190**	**1300**	**6500**	**482**	**80**
683782RF; CL53+76N; 2002	QVM, TYPE 1*****	**9.29**	**604**	**4.4**	**1070**	**335**	**162**	**539**	**198**
38428; CL54+25N; 1992	QVM, TYPE 1	**17.7**	**30.4**	**100**	**497**	**2100**	**17600**	**123**	**14**
38430; CL54+88N; 1992	QVM, TYPE 1	**14.9**	**271**	**0.1**	**2981**	**1024**	**568**	**6119**	**80**
38432; CL55+05N; 1992	QVM, TYPE 2	**2.76**	**29**	**14.6**	**186**	**325**	**1352**	**323**	**8**
39021; CL55+25N; 1992	S1, QVM, TYPE 1	**5.69**	**63.7**	**2.1**	**830**	**301**	**878**	**2605**	**4**
39508; CL55+50N; 1992	QVM, TYPE 1	**18.9**	**6.1**	**50.3**	**40**	**143**	**2719**	**248**	1
38992; CL55+55N; 1992	QVM, TYPE 1	**5.48**	**91.1**	0.1	**782**	**318**	**410**	**4878**	**22**
683795RF; CL58+59N; 2002	H3, QVM, TYPE 2*****	**9.56**	**126**	**2.1**	**265**	**124**	**280**	**195**	**77**
683793RF; CL58+64N; 2002	QVM, TYPE 1	**14.75**	**791**	**218**	**4070**	**444**	**15200**	**3310**	**368**
	TOTALS	283.32	9578.6	952.5	52192	19075	132472	55197	11115
	MES AVERAGE VALUES:	15.74	532.1	52.9	2900	1060	7360	3067	618

* Au grades over 2 g/t; or, without Au grade criteria, Ag over 200 g/t

**ANOMALOUS VALUES BASED ON GEOFINE REGIONAL THRESHOLD CRITERIA
OF 10 ppb Au, 0.4 ppm Ag, 0.7 ppm Cd, 45 ppm Cu, 15 ppm Pb, 130 ppm Zn, 24 ppm As, 4 ppm Sb

*** ABBREVIATIONS:

RF: ROCK FLOAT
H2: CRYSTAL TUFF
H3: CRYSTAL TUFF BRECCIA
H4: ASH TUFF
H6: RHYOLITE, DACITE
S1: ARGILLITE
QVM: QUARTZ VEIN MATERIAL
SMS: SEMI MASSIVE SULFIDES

****MINERALIZATION TYPES

TYPE 1: PY, ASPY, SPHAL, CPY, GAL
TYPE 2: PY, ASPY
TYPE 3: PO +/- CPY
TYPE 4: SPEC

****** AVERAGE GOLD VALUE CALCULATED FROM CHEMEX ANALYTICAL RESULTS

Type 2 is also rather abundant (45% of the samples; Table A3.2) and since anomalous arsenic and antimony are usually associated with it, so are most of the anomalous gold values (59%). This type can have significant gold and silver contents e.g., sample 693795RF from Upper Highway Zone Creek has a MSE of 9560 ppb Au (average of 2 Chemex check samples), 126 ppm Ag, 2.1 ppm Cd, 265 ppm Cu, 124 ppm Pb, 280 ppm zinc, 195 ppm As and 77 ppm Sb. Most anomalous gold values in East Creek are associated with Type 2 mineralization (up to 840 ppb Au in sample 683748RF). The Ice and Upper Ice 2 Showings in East Creek comprise pyritized quartz veins (Photo 10), which on surface lack significant gold values (up to 140 ppb, sample 683768R), but have strong arsenic and antimony associations. Type 2 mineralization is found mainly in altered tuff breccia and quartz vein material (Table A3.2). It generally comprises fine disseminations, blebs and lenses of pyrite and arsenopyrite but also occurs as veins and stockworks in more intense mineralization. Fuchsite, ankerite, chlorite, epidote, sericite and minor tetrahedrite are common accessory minerals.

Type 1 comprises only 4% of the samples, but accounts for 14% of the anomalous gold values. Most of it found to date on the grid occurs in angular boulders in and near Highway Zone Creek. As demonstrated by the results obtained from the higher-grade Type 1 samples collected in Highway Zone Creek in 2002, the mineralization can have a range of multi element signatures:

Sample No.	**Multi Element Signatures of Type 1 Mineralization:**							
	Au (ppb)	**Ag (ppm)**	**Cd (ppm)**	**Cu (ppm)**	**Pb (ppm)**	**Zn (ppm)**	**As (ppm)**	**Sb (ppm**
683782RF	9287*	604	4.4	1070	335	162	539	198
683793RF	14750	791	218	4070	444	15200	3310	368
683943RF	7050*	209	30.8	869	406	2460	590	111

* average value of Chemex analytical results

Type 1 mineralization in float boulders usually consists of pyrite, sphalerite, chalcopyrite +/- galena and tetrahedrite, as disseminations, lenses, veins and stockworks in quartz-ankerite veins in altered (silicified, chloritized, sericitized) crystal tuff breccia. Although the Highway Zone Creek Showing remained snow covered during the 2002 field program, the Type 1 mineralization was given a somewhat similar, historical description. The veins are mineralized with disseminations and stringers of pyrite, pyrrhotite, arsenopyrite, galena, sphalerite, chalcopyrite, and tetrahedrite. Associated minerals include jarosite/alunite, ankerite, potassium feldspar, hematite, chlorite, sericite and fuchsite (Kennedy, 1992).

Type 4 mineralization is a minor type that comprises 2% of the samples. The mineralization consists of disseminated specular hematite in chloritized and silicified crystal tuff breccia. The samples returned one weakly anomalous gold value (24 ppb) and one anomalous copper value (133 ppm; Table A3.1)

The rock geochemical survey indicates that each of the mineralization types can be found in

most of the altered (oxidized i.e., jarosite/alunite, limonite, manganese; silicified, sulfidized +/- ankerite, sericite, fuchsite, tetrahedrite, chlorite, calcite, epidote) rock types observed on the grid: ash tuff is the host of 2% of the mineralized samples collected; crystal tuff, 7%; crystal tuff breccia, 51%; rhyolite, 1%; argillite, 8%; and, a variety of quartz veins and breccia vein types found in crystal tuff and crystal tuff breccia or as vein material, 31%. However, 40% of the anomalous Au values are associated with the quartz vein material; 13% are found in crystal tuff or crystal tuff breccia with associated quartz vein material; and 42% are associated with altered and sulfidized crystal tuff breccia. Forty-two percent of the rock samples with anomalous gold values were collected in Highway Zone Creek and 33% in East Creek.

8.B.3.1 THE SIGNIFICANCE OF THE ROCK GEOCHEMICAL SURVEY:

The results of the rock geochemical survey suggest that mineralization Types 1 and 2 are the most important exploration targets, although Type 3 should not be overlooked; and, that the main target areas are lower and upper Highway Zone Creek and upper East Creek. As indicated by the stream sediment and soil surveys, the results also suggest that the strongest gold and polymetallic mineralization are located in and proximal to Highway Zone Creek.

The importance of the Highway Zone Creek polymetallic target is indicated by the average of the analytical results obtained from 18 higher-grade, historical and 2002 Type 1 and 2 samples collected in the creek. The samples were procured along a strike length of over 800 meters and uncut values average 15.74 g/t Au, 532.1 g/t Ag, 0.29% Cu, 0.11% Pb, and 0.74% Zn (Table A3.3).

Mineralization Types 1 and 2 are often found in close proximity in angular boulders in the Highway Zone Creek area and often appear to be haloed by a broader area of Type 3 mineralization. This apparent spatial relationship in mineralized boulders may reflect zoning within the hydrothermal veins and in mineralized wall rock e.g., a core of Type 1 and/or Type 2 mineralization surrounded by Type 3 mineralization.

8.C. GEOLOGICAL, VEGETATION SURVEYS (MAPS A3, A3.1):

The regional geology of the Poly Property is shown in Figure 8. The main geological components relevant to the property include Hazelton Group rocks, the overlying Salmon River Formation and the Entrance Peak quartz monzonite pluton (Map A3).

As described in Sections 5 and 7B, the Lower Jurassic Unuk River Formation of the Hazelton Group underlies most of the Entrance Peak Project Area. In the 2002 target area, the formation comprises predominantly pyroclastic rocks, including ash and crystal tuff and volcanic crystal tuff breccia. The rocks are generally greenish grey in colour and include grey to white mm scale quartz crystals in an aphanitic – fine siliceous matrix, which also often hosts angular volcanic breccia fragments, with longest dimensions up to over 0.5 m (Photo 9). When altered, the crystal tuff breccia is usually oxidized (limonite, jarosite/alunite) sulfidized, silicified and sericitized, with varying amounts of carbonate and chlorite. Although outcrops are sparse on the grid, crystal tuff breccia is thought to underlie most of it, and to comprise most of the outcrops in the upper target area north of the grid (Photos 1, 3, 12).

The volcanic pile has been intruded by hypabyssal intrusions, some of which are of similar age, and include rhyolite domes, dykes and welded tuffs. These rocks are believed to represent late stage acidic volcanism in the evolving island arc. Angular float rocks of rhyolitic to dacitic composition are found as oxidized rubble near the west end of L52N (e.g., sample 683922RF, Map A3). They are generally well pyritized and can host significant Type 1 mineralization (i.e., samples 38342, 38342, Table A3.3). To date, the felsic volcanic rocks have not been found in outcrop, but angular boulders evidence a bedrock source postulated to be located between old Hwy 37A and L53N in the southwest area of the grid.

Rocks of the Salmon River Formation (argillite, with minor sandstone, limestone and shale) are transitional between the mostly volcanic Hazelton Group and the wholly sedimentary Bowser Lake Group and are presently regarded as the uppermost formation of the Hazelton or the basal formation of the Bowser Lake Group. Argillite is the main component of the Salmon River Formation observed during the 2002 exploration activities: it hosts 8% of the mineralized rocks collected as part of the rock geochemical survey. The argillite is grey to black, fine grained, often laminated and well silicified and sulfidized (pyrite or pyrrhotite). Although argillite was not found in outcrop in 2002, the Highway Zone Creek Showing is reported to be located near the contact of green pyroclastic rocks and argillite (Kennedy, 1992).

A large Eocene stock, herein "the Entrance Peak quartz monzonite pluton", has intruded the aforementioned rocks in the lower target area on the east end of the highway control lines and the grid lines. It is composed of coarse-grained white quartz and feldspar, along with minor biotite, magnetite and disseminated pyrite. When weathered, the rock becomes friable and often oxidized (limonite).

As shown in Figure 9, Section 8.D., the pluton has a positive regional magnetic signature. Based on the geological survey, including the type of rock fragments found in the soil holes, and the magnetometer survey referenced below, a generally north-south trending, arcuate contact of

PHOTO 12

EXTENSIVE CYRSTAL TUFF BRECCIA OUTCROP IN THE UPPER TARGET AREA: HIGHWAY ZONE CREEK ON LEFT, EAST CREEK ON RIGHT.
NOTE LIMONITIZED CRYSTAL TUFF BRECCIA NEAR HIGHWAY ZONE CREEK SHOWING (IN GOLD) AND ICE SHOWING (IN RED) IN EAST CREEK.
ALSO NOTE DOMINANT MVI VEGETATON IN MAIN TARGET AREA BETWEEN THE CREEKS, WITH FLANKING MV2 VEGETATION TO EAST IN LOWER RIGHT, ON QUARTZ MONZONITE TERRAIN

the quartz monzonite pluton and Hazelton Group rocks has been interpreted to be located east of East Creek (Map A3). The contact becomes more difficult to interpret in the southeast area of the grid. Based on geological evidence alone, the contact trends east along and then north of old Hwy 37A, and then swings south across the most easterly segment of the Hwy 37A on Map 3A. This interpretation supports the field evidence that the Highway Showing is associated with altered tuff breccia. Based on magnetic evidence, as provided in Section 8.D., the contact can be also interpreted to swing south across Hwy 37A about 250 m farther to the west than the aforementioned contact i.e., the Highway Showing is underlain by quartz monzonite. However, as suggested by JVX (Section 8D; Appendix C), the higher magnetic relief in the area in question could be due to pyrrhotite observed in the sulfidized crystal tuff breccia. Such an interpretation would confirm the original postulated extent of the Hwy 37A target area.

The vegetation survey indicates that the MV1 type (tag alders, devil's club, ferns and fireweed) is widespread in the main target area between Highway Zone Creek and East Creek (Map A3). The structural fabric i.e., numerous north trending fracture zones probably accounts for the dense, and at times almost impenetrable MV1 vegetation, which flourishes in proximity to the many drainage channels (Map A3). However, the type can appear somewhat stunted locally in the vicinity of the larger drainages, e.g., East Creek, where concentrations of sulphur and arsenic may have a toxic effect. The MV1 type is transitional to the MV2 type (mature popular, fir and minor amounts of tag alders and ferns) to the east of the main target area, in the quartz monzonite terrain. The MV2 type is also found to the west of Highway Zone Creek, in areas of weakly altered crystal tuff breccia. The MV3 type is a minor type and comprises grasses and fireweed, which are found on grassy slopes and knolls (Map A3).

The geological, structural and topographic information indicate that the creeks and their often-linear tributaries are controlled by fractures that generally strike between 270 ° to 20° and dip vertically to 75°E (Maps A3, A3.1). Such structures, their junctions and splays off them are postulated to control the epithermal-mesothermal hydrothermal mineralization on the property.

Evidence of such mineralized structures and conjugate fractures are provided from past and current geological work. For example, the historical Highway Zone Creek Showing, which remained snow covered during the field program, is described in Section 7.C. above, as being associated with a north-northwest trending, east dipping structure about 300 m north of L56N. The structure is up to over 10 m wide and hosts quartz-ankerite stockworks and veins, up to over 1 m in width. Evidence of the southward continuation of the structure or of new structures was provided in 2002 by sheared and fractured talus at about 259 meters north of L56N, on the Highway Zone Creek CL (Photo 13). Samples of the fractured, angular blocks of altered crystal tuff breccia, with Type 1 and 2 mineralizations returned up to 9.56 g Au/t and 791 g Ag/t (683793RF, 683795RF, Table A3.1; MapA3).

Further structural evidence was found in outcrops examined in 2002 in the lower target area in Highway Zone Creek. For example, sheared (07°/85°E) crystal tuff breccia outcrops about 25 m south of L53N (Map A3). Sample 683944R (Table A3.1; Map A3) contained weakly anomalous gold (12 ppb) and anomalous copper (57 ppm). A sample (683826R) of sheared outcrop (324°/85°E) composed of altered crystal tuff breccia at the west end of L54N returned

PHOTO 13

FRACTURED & SHEARED CRYSTAL TUFF BRECCIA ON CL AT ABOUT 259 M NORTH OF L56N IN HIGHWAY ZONE CREEK NEAR SAMPLES 683793RF & 683795RF, WHICH RETURNED UP TO 14.75 g Au/t and 791 g Ag/t

weakly anomalous silver (0.5 ppm) and anomalous copper (65 ppm) values. A nearby angular float boulder of sericite schist had anomalous gold, silver, copper and lead contents of 795 ppb, 0.8 ppm, 45 ppm and 17 ppm, respectively (Table A3.1, Map A3).

A sheared (350°/85°E) and fractured outcrop of altered crystal tuff breccia is located in Highway Zone Creek about 50 m north of L54N (Photo 14, Map A3). Sample 683785R contained 8 ppb gold and 0.6 ppm silver. A nearby angular boulder of quartz vein material returned 18 ppb gold, 0.9 ppm silver and 191 ppm copper (sample 683786RF; Table A3.1; Map A3).

The southwest branch of Lower Highway Creek (Map A3) appears to follow a warp or flexure in the structural fabric, which is apparently confirmed by the magnetic data presented in Section 8.D. The fabric appears facilitative for the concentration of sulfide mineralization in a more ductile environment, which could be conducive to the formation of larger deposits. The importance of the area is suggested by the results of the soil and rock geochemical surveys (Sections 8.B.2 and 8.B.3) and by the structural interpretation of the vertical magnetic gradient presented in Section 8.D. As noted in Table A3.3, some of the highest-grade mineralization discovered to date on the property was found in an angular float boulder in this area i.e., sample 686751, which contained 33.7 g Au/t, 5895 g Ag/t, 1.42% Cu, 0.45% Pb and 1.19% Zn.

In upper East Creek, a prominent fracture zone up to over 15 m wide hosts the Ice Showing quartz vein (Photos 15, 16; Map A3.1). The quartz-pyrite vein ranges up to over 1 meter in width and can be traced for about 30 m before disappearing under talus. It has a strike of between 8° and 14° and dips between vertical and 80°E. Slickenslide surfaces are found on the hanging wall side of the vein (Photo 16). The vein is hosted by altered (limonitized, pyritized, silicified +/- fuchsite, sericite) and fractured crystal tuff breccia (Photos 17, 18). Silica flooded areas of the altered wall rock contain quartz-fuchsite veins developed in the fractures and their conjugates (Photo 21).

Below and about 30 m south of the Ice Showing, the fracture zone widens and fills much of East Creek (Photos 19, 20). The fractures have been subject to silica flooding and the development of multi phase breccia veins in which fuchsite is a common accessory.

Quartz sulfide veins (Photo 23) are found in shear and fracture zones in the area of the Upper Ice 1 and Upper Ice 2 (28°/64°E) showings (Photo 22). The veins are hosted by altered (limonitized, hematized, silicified, chloritized, pyritized) crystal tuff breccia. Type 3 mineralization occurs at the Upper Ice 1 showing, probably accounting for its lack of anomalous gold and arsenic values. Type 2 mineralization occurs at the Upper Ice 2 showing, where sample 683774R (Map 3, Table A3.1) returned 70 ppb Au, 499 ppm As and 17 ppm Sb.

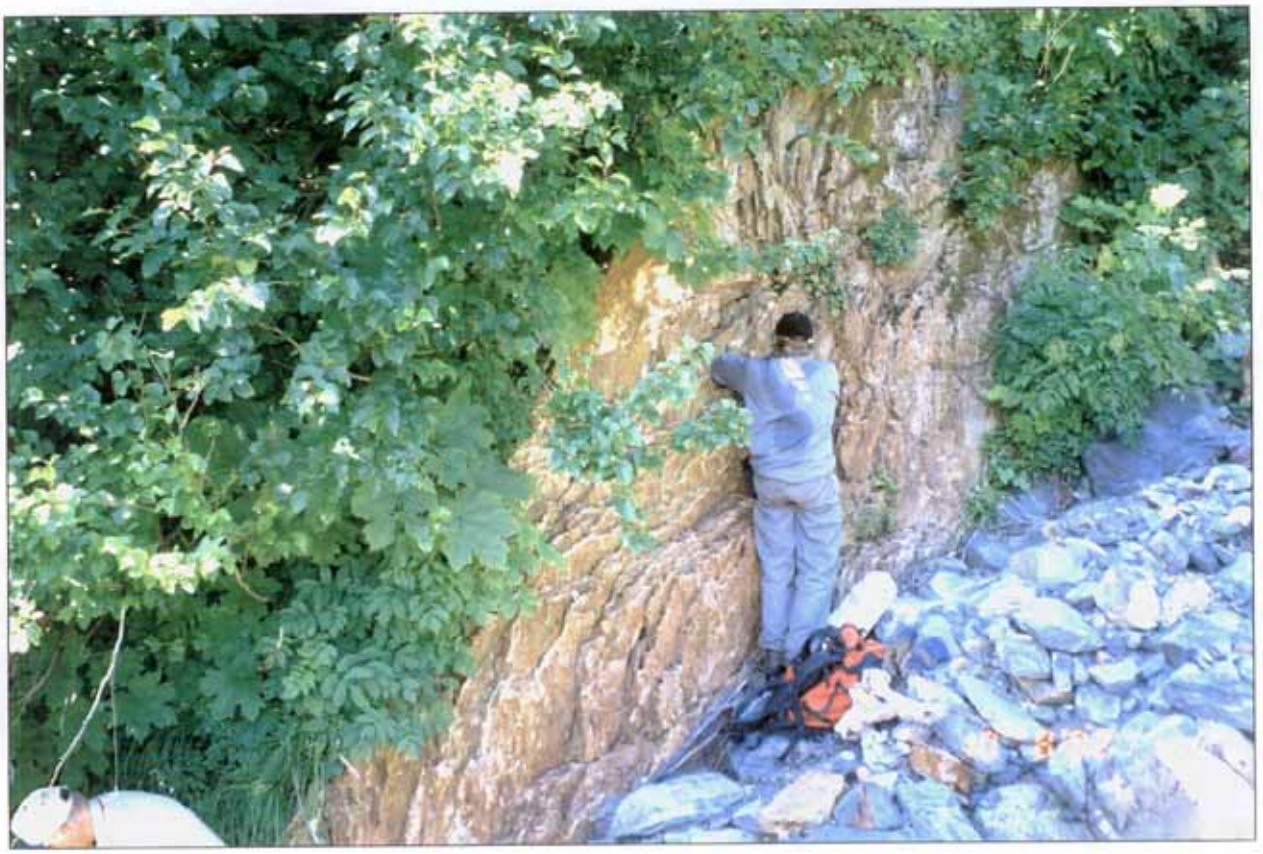

PHOTO 14

SHEARED (350°/85°E) & FRACTURED CRYSTAL TUFF BRECCIA IN HIGHWAY ZONE CREEK ON CONTROL LINE ABOUT 50 M NORTH OF L54N

PHOTO 15

NORTHERN AREA OF ICE SHOWING QUARTZ VEIN IN EAST CREEK 202 M UP CL FROM L56N

PHOTO 16

LOOKING WEST AT SOUTHERN AREA OF ICE SHOWING QUARTZ VEIN AT SAMPLE 683768R (140 PPB AU, 3.3 PPM AG, 28 PPM PB, 564 PPM AS, 19 PPM SB) WITH WELL DEVELOPED SLICKENSLIDES ON HANGING WALL SIDE OF VEIN

PHOTO 17

LOOKING NORTH AT CENTRAL AND NORTHERN AREAS OF ICE SHOWING VEIN AND FRACTURE/SHEAR ZONE

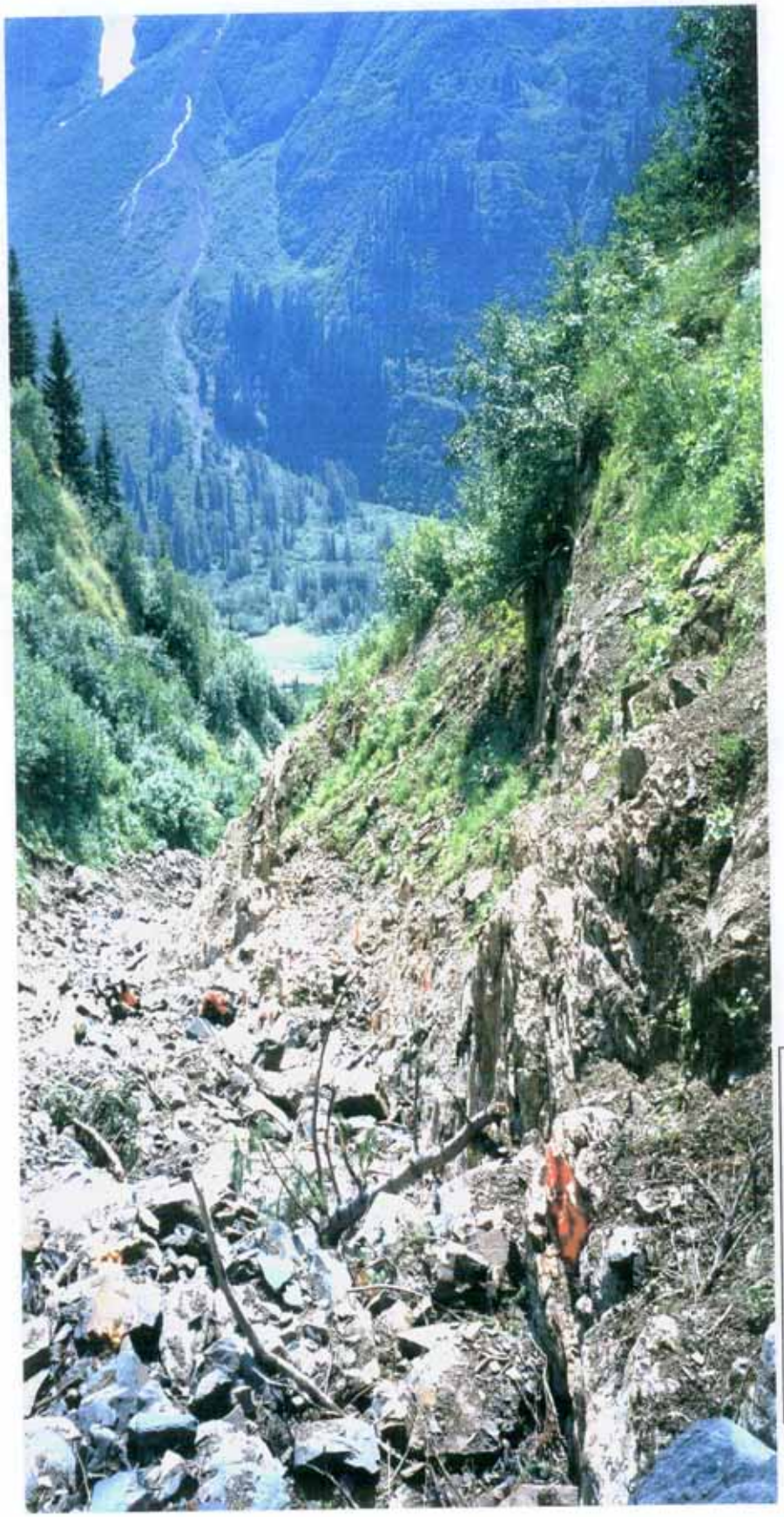

PHOTO 18

LOOKING SOUTH AT SOUTHERN AREA OF ICE SHOWING QUARTZ VEIN AND FRACTURE/SHEAR ZONE IN EAST CREEK, AND FARTHER TO SOUTH AT HWY 37 A AND STROHN CREEK VALLEY

PHOTO 19

FRACTURE/SHEAR ZONE BELOW ICE SHOWING IN EAST CREEK AT 141 M UP CL FROM L56N

PHOTO 20

CLOSE UP OF 40 X 30 CM QUARTZ LENS AND MULTI PHASE QUARTZ FUCHSITE VEINS IN PHOTO 19, AT 141 M UP CL IN EAST CREEK FROM L56 N

PHOTO 21

QUARTZ FUCHSITE VEINS IN FRACTURES AND CONJUGATES IN ALTERED CRYSTAL TUFF BRECCIA WALL ROCKS OF ICE SHOWING AREA, EAST CREEK

PHOTO 22

**ALTERED TUFF BRECCIA,
AREA OF UPPER ICE 2 SHOWING,
EAST CREEK**

PHOTO 23

UPPER ICE 2 SHOWING QUARTZ VEIN WITH 7% PYRITE IN BANDED BLUE QUARTZ VEIN (70 PPB AU, 2.3 PPM AG, 0.8 PPM CD, 499 PPM AS, 17 PPM SB)

8.C.1. SIGNIFICANCE OF THE GEOLOGICAL AND VEGETATION SURVEYS:

The geological survey confirms the results of the rock geochemical survey i.e., crystal tuff breccia is one of the most important rock types in the Highway Zone Creek and East Creek target area. Shear and fractures zones developed in it are postulated to host most of the target epithermal-mesothermal hydrothermal mineralization i.e., quartz sulfide veins +/- fuchsite, ankerite and tetrahedrite. The veins show evidence of multi phase activity and orthogonal veins are often present. The mineralized structures strike mainly north and dip steeply east, towards the quartz monzonite pluton. A number of parallel to sub parallel, mineralized structures are postulated, with their intensity increasing in proximity to the main structures such those associated with Highway Zone Creek and East Creek.

There is evidence of both brittle and ductile deformation, with the largest sulfide concentrations thought to have been deposited in flexures in the structural fabric and at structural junctions. Wall rocks in the vicinity of the structures have been silicified, sulfidized, sericitized, chloritized and oxidized (limonite, jarosite/alunite). More distal rocks have been epidotized, chloritized and carbonated.

The drainage pattern is also controlled by such structures, along which dense MV1 type vegetation is developed. The type tends to flourish in the target area, but is stunted locally where arsenic and sulphur concentrations in the soil may be toxic. The other principal type of vegetation observed, MV2, comprises mature popular and fir trees, and flanks the main target area.

8.D. VERTICAL FIELD MAGNETIC SURVEY:

The 4.7 km magnetic survey was carried out with a Scintrex MF-2-100 portable fluxgate magnetometer (Appendix C), which was used to measure the vertical magnetic field on the grid. The magnetic data was collected at 12.5 m stations on grid lines and highway control lines. These lines cover the lower target area between Highway Zone Creek and East Creek, and extend east to cover the east contact of the Entrance Peak quartz monzonite intrusion. The intrusion has positive magnetic relief as shown on GSC Aeromagnetic Map 9199G (Figure 9).

Diurnal variations in the earth's magnetic field were monitored by reoccupying stations throughout the survey period. No corrections were required in the data, since variations were minimal and within the accuracy of reading the instrument. The vertical field and calculated vertical gradient magnetic maps have been plotted and interpreted by JVX Ltd. The JVX report is included as Appendix C to this report.

As shown on Plate 1 (Appendix C) the vertical field magnetic relief on the grid lines and highway control lines increases from west to east towards the pluton and ranges up to about 400 nT on grid lines, and up to about 1000 nT on control lines along the old and new Hwy 37A. The weak magnetic high is interpreted to be associated with pyrrhotitized crystal tuff breccia

associated with the Highway Showing.

On the grid, the area of lowest magnetic relief is generally correlative with, or flanking to the main target area outlined by the soil geochemical survey i.e., in the vicinity of Highway Zone Creek and east to BL50E. The magnetic low is interpreted to be associated with fractures, the development of which seems strongest in proximity to Highway Zone Creek. The warping in the structural fabric, as suggested by the magnetic data in the lower Highway Zone Creek area, is considered indicative of a favourable structural environment.

The vertical field magnetic gradient map (Plate 2, Appendix C) was produced to reduce regional bias and to interpret the structural fabric. Numerous north-south magnetic high trends and magnetic low trends can be interpreted from the vertical field magnetic gradient. Disruptions in the magnetic high trends i.e., magnetic lows exhibiting line-to-line correlation, have been interpreted as possible fault zones by JVX Ltd. North trending faults include F-1, which has generally good correlation with most of the Highway Zone Creek structure as interpreted by Geofine. In the southwest corner of the grid, F-1 has a flanking association with the Highway Zone Creek structure, but F-1 could also be interpreted to be located some distance northwest to correlate with the structure.

F-2 has a flanking to cross cutting association with East Creek. F-3 has direct correlation with upper East Creek, but generally has up to a 60m, east flanking association with most of the structure associated with the creek, as interpreted by Geofine.

In the southwest area of the grid, F-1 and F-3 are warped to the southwest, suggesting the postulated flexure in the bedrock. The northwest–southeast trending structures (F-4 and F-5) disrupt the north-south trending magnetic highs, with F-5 located near the interpreted axis of the flexure. As indicated by the soil and rock geochemical surveys, the area of the flexure and F-1 and F-5 are considered rather prospective, particularly in the area of the structural junction of F-5 and F-1 and F-3. The areas in the vicinity of the structural junctions of F-4 and the north trending faults are also considered important follow-up targets.

JVX (Appendix C) indicates that the western limit of the quartz monzonite pluton could be generally located at 52+00E on old Hwy 37A, where the magnetic gradient steepens to the east. Geofine's interpretation of the extent of the contact, as referenced in Section 8.C. is included below. The interpretation is based on geology, including the type of rock fragments found in the soil holes and the mineralization at the Highway Showing; on soil geochemistry, including the fact that soil samples taken over the pluton do not generally contain gold; and, on the magnetic data.

North of old Hwy 37A, an arcuate contact of the quartz monzonite pluton and Hazelton Group rocks is interpreted to be located east of East Creek (Map 3A). The contact becomes more difficult to interpret in the southeast area of the grid. Based on geological evidence alone, the contact trends east, along and then north of old Hwy 37A, and then swings south across the most easterly segment of Hwy 37A on Map 3A. This interpretation supports the field evidence that the Highway Showing is associated with altered, pyrrhotitized tuff breccia. Based on Geofine's

interpretation of the magnetic expression of the contact north of old Hwy 37A, the contact can also be interpreted to swing south across old Hwy 37A about 350 m farther to the west than the aforementioned contact, or about 150 m east of the JVX interpreted contact. This more westerly contact would entail that the Highway Showing is underlain by quartz monzonite. However, as suggested by JVX, the higher magnetic relief in the area in question could be due to the pyrrhotite observed in the sulfidized crystal tuff breccia at the Hwy 37A Zone. Such an interpretation would confirm original postulated extent of the Highway Showing target area.

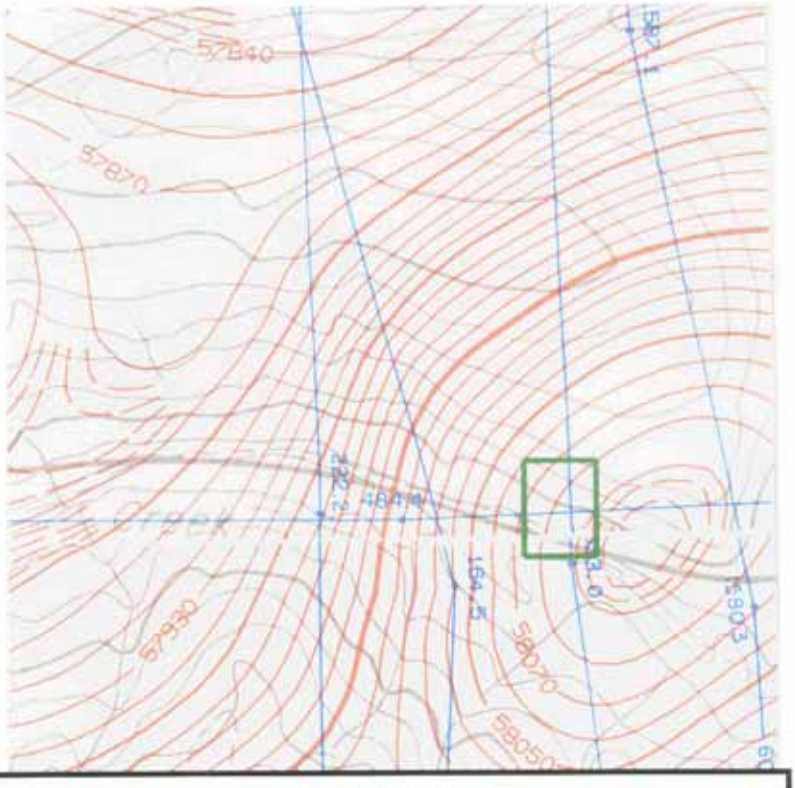

FIGURE 9

GENERAL AREA OF THE 2002 EXPLORATION PROGRAM, LOCATED ON WEST EDGE OF THE AEROMAGNETIC ANOMALY ASSOCIATED WITH ENTRANCE PEAK QUARTZ MONZONITE PLUTON AS SHOWN GSC MAP 9199G

8.D.1. SIGNIFICANCE OF THE VERTICAL FIELD MAGNETIC SURVEY:

The magnetic survey appears to have verified the presence of the main interpreted structural control of the target mineralization – the Highway Zone Creek structure; and, further delineated the priority exploration target areas in proximity to Highway Zone Creek. The Highway Showing appears to be signatured by a weak, positive magnetic anomaly that remains open to the south.

9. CONCLUSIONS, RECOMMENDATIONS:

9.A. CONCLUSIONS:

It is concluded that the Poly Property offers a unique exploration opportunity for the discovery of a high-grade, epithermal-mesothermal hydrothermal gold and polymetallic orebody in proximity to infrastructure, including the Stewart power line and Hwy 37A. The importance of the target is evidenced by the grade of 18 higher-grade, historical and 2002 samples of Type 1 and Type 2 mineralization collected in angular boulders in Highway Zone Creek. The samples were procured along a strike length of over 800 meters and have an average uncut grade of 15.74 g/t Au, 532.1 g/t Ag, 0.29% Cu, 0.11% Pb, and 0.74% Zn.

The principal target as outlined to date is interpreted to be associated with the structural fabric located in proximity to Highway Zone Creek, including the main north trending F-1 structure, parallel structures located west of BL50E and cross cutting structures including F-4 and F-5. As outlined to date, the main target extends north for over 600 m from old Hwy 37A, where it is quite broad and open to the southwest. It is interpreted to extend farther north, to and beyond the important Highway Zone Creek Showing, located about 900 m north of old Hwy 37A.

The highest priority target area as delineated by the soil and rock geochemical surveys is postulated to be located along and north of old Hwy 37A, in the southwest area of the grid. The structural attributes of the area include the apparent flexure in the F-1 and F-3 structures, the southeast trending F-5 structure, which is located near the postulated axis of the flexure; and the junctions of F-5 with F-1, F-3 and other parallel structures. The diversity of the possible structural associations and controls of the target could have positive tonnage implications.

***Numerous other target areas are apparent: segments of the F-3 structure associated with* East Creek and Upper East Creek; the structure controlling Middle Creek; and, the historical Highway Showing. Orthogonal structures are well developed in upper East Creek, and the area between it and Highway Zone Creek also appears prospective.**

9.B. RECOMMENDATIONS:

It is recommended that a two phase, $255,000 follow-up exploration program be carried out in 2003 (Table 4). The Phase 1, $90,000 program should include a spectral induced polarization/resistivity survey, as contemplated by JVX. The survey will define both sulfides (high chargeability values, and alteration/silicification (high resistivity values).

The IP survey is proposed on the lower target area, as topography allows. The 2002 grid lines installed at 100 m will have to be restored in 2003, after the effects of winter snow have destroyed the picketed stations; and lengthened, since the main target area is located on the west end of most of the lines. Infill grid lines should also be installed to achieve a 50 m line spacing on the grid, where feasible.

It is anticipated that such an IP survey could be carried out on old Hwy 37A, and on L49+50N to L54N, including infill lines. Depending on the effect of the Stewart power line, IP surveying may also be possible on Hwy 37A. Chargeability and resistivity anomalies in proximity to Highway Zone Creek should offer high priority drill targets.

Additional magnetic, geological and geochemical surveys should be completed on the new lines to further prioritize drill targets, since it is expected that many wide IP anomalies will be delineated. The actual cost of the Phase 1 program is dependent on how much IP surveying can be carried out i.e., what grid line extensions can be installed; where can IP surveying be carried out based on overburden conductivity and power line influences; and, what detailing will be necessary to prioritize drill targets.

Snow conditions during the 2002 fieldwork negated work on the Highway Zone Creek Showing and the west upper East Creek Area. Much of the topography of the upper target area is not amenable to IP surveying, but the area should be thoroughly evaluated as part of the Phase 1 activities. A northern offset of BL50E e.g., BL50+75E should be installed north from L56N and grid lines installed initially at 100 m to evaluate the prospective area between upper East Creek and Highway Showing Creek. The Highway Zone Creek Showing continues to offer one of the most prospective drill targets on the property.

The proposed Phase 2 activities should include provision for at least 600 m of diamond drilling and is estimated to total about $166,000. The actual cost of the drill program will be dictated by hole locations and helicopter support requirements. For example, if much of the drilling takes place in proximity to old Hwy 37A, the cost per meter will be much lower than shown in Table 4. However, a variety of targets should be drill tested, and it is recommended that the Highway Zone Creek Showing be one of them.

The most onerous activity on the property to date has been line cutting. The dense tag alders have been further compacted by snow accumulations and down slope movement and any small openings on the often-treacherous mountain slope are filled with devil's club. As such, the dominant MV1 cover is rather formidable and budgets have to make allowance for the extra costs that it entails.

TABLE 4:

PROPOSED PHASE 1 AND PHASE 2, 2003 EXPLORATION BUDGET:

POLY PROPERY, ENTRANCE PEAK PROJECT

ITEM	EST. COST	
	PHASE 1	**PHASE 2**
i) Assessment work, aeromagnetic modelling		
ii) Project permitting, bond*	1500	5000
iii) Geochemical quality assurance analyses, Canmet Standards	1500	
iv) Property compensation, access:		
v) Structural fabric studies, air photos, maps		
vi) Field equipment, supplies	2500	1500
vii) Mob-demob, vehicle rent, gas, ins.	4000	4500
viii)Helicopter support for Geofine crews & equip & field program		5000
ix) Analyses, assays* 520 @ $25	3000	10000
x) Line cutting, grid restoration* 10 km @ 1000/km	10000	
xi) Geophysical surveys*: 8 km of mag @ $500/km	4000	
10 km of IP @ $1500/km	15000	
processing, reports, mob	10000	
xii) Land surveys		
xiii) Sust., accomod, camp rent. beyond dd program	2000	2000
xiv) Communications, courier, shipping	1000	1000
xv) Drafting, reporting, assess. rpts,	3500	3500
xvi) Filing fees	5000	5000
xvii) WCBC insurance	1000	500
xviii) Licences		
xix) Salaries: local labour, 2 geologists, $1200/day @ 30 days including participation in geophysical surveys	18000	18000
xx) Stripping, trenching hours at $80/hr		
xxi) Mineralogical studies, init.sample metallurgy		
xxii) BQ diamond drilling* 600 m @ $150/m & mob		95000
xxiii)Contingency	5000	10000
SUBTOTALS	87000	161000
OVERHEAD	2500	5000
SUBTOTALS	89500	166000
GRAND TOTAL		255500
LESS RECOVERABLE GST AND BOND		(20000)
ESTIMATED NET TOTAL:		**$235,500***

*** SUBJECT TO CONTRACTOR BIDS, GOVERNMENT BOND REQUIREMENTS**

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11. **STATEMENT OF QUALIFICATIONS:**

I, David E. Molloy, of the Town of Unionville, of the Regional Municipality of York, Ontario, hereby certify that:

i. I am the president of Geofine Exploration Consultants Ltd., with a business address at 49 Normandale Road, Unionville, Ontario, L3R 4J8.

ii. I am a graduate of McMaster University, in the City of Hamilton, Ontario, with a B.A. in Philosophy (1968); I am a graduate of the University of Waterloo, in the City of Waterloo, Ontario, with a B.Sc. in Earth Science (1972);

iii. I have practised my profession in mineral exploration continuously for the past 29 years, including 11 years as a prospector/consultant; 10 years with St. Joe Canada Inc./Bond Gold Canada Inc./LAC Minerals Ltd. as Regional Geologist, Exploration Manager, Vice President and as Senior Vice President, Canadian Exploration; and, 8 years with Beth-Canada Mining Company as a Regional Geologist;

iv. I am a Fellow of The Geological Association of Canada; and a Member of the Association of Professional Geoscientists of Ontario;

v. I am a Member of the Canadian Institute of Mining and Metallurgy; of the Prospectors and Developers' Association; of the Canadian Geophysical Union; of the Association of Exploration Geochemists; and, of the BC Yukon Chamber of Mines;

vi. I have supervised the fieldwork and the preparation of this report entitled "Report On The 2002 Entrance Peak Project: Poly Property, Skeena Mining Division, Stewart Gold Camp, Northwestern British Columbia";

vii. The recommendations herein are solely the responsibility Geofine Exploration Consultants Ltd.

David E. Molloy, B.A., B.Sc., F.G.A.C.

Dated at Unionville, Ontario, this 26th day of November 2002.

APPENDIX A:

CHEMEX CERTIFICATES OF ANALYSIS

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

CERTIFICATE VA02002627

Project : POLY

P.O. No: PO 1 A6 102

This report is for 3 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 8-Aug-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

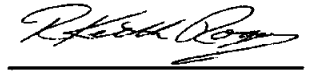
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% 75micro

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
ATTN: DAVID MOLLOY
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002627

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-GRA21 Au ppm 0.05	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
N683763		3.92	<0.05	4.7	3.09	7370	100	0.9	<2	0.08	<0.5	6	180	38	5.30	1.31
N683758		2.16	<0.05	7.0	1.99	185	70	0.8	<2	0.04	2.8	3	219	35	5.44	0.70
N683700		0.08		2.6	8.62	135	40	<0.5	6	4.39	1.4	205	28	8750	11.75	0.54

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UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002627

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Tl % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-AA23 Au ppm 0.005
N683763		0.25	151	11	0.05	41	260	16	4.68	23	20	0.08	48	10	102	
N683758		0.24	269	6	0.02	23	100	12	4.16	11	14	0.04	36	10	334	
N683700		2.59	1920	5	1.19	82	160	4	2.88	7	57	0.15	98	<10	158	1.245

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 16-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002629

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-GRA21 Au ppm 0.05	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
N683748		1.14	0.84		16.1	1.22	8670	100	0.9	2	0.10	<0.5	4	133	35	2.55
N683757		1.40	<0.05		2.6	1.49	161	90	0.5	<2	0.04	<0.5	4	217	20	3.08
N683780		1.64	1.52		13.6	2.86	5510	210	1.3	<2	0.08	90.2	8	100	106	2.59
N683774		2.76	0.07		2.3	2.75	499	240	1.9	2	0.06	0.8	4	118	13	1.88
N683768		2.82	0.14		3.3	3.18	564	150	1.1	<2	0.09	<0.5	3	166	29	3.86
N683750		0.10		3.37	<0.5	6.31	14	1930	3.3	6	4.48	<0.5	24	100	90	4.80

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

CERTIFICATE VA02002627

Project : POLY
P.O. No: PO 1 A6 102
This report is for 3 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 8-Aug-2002.
The following have access to data associated with this certificate:
DAVID MOLLOY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% 75micro

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
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Signature:

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UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002627

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-GRA21 Au ppm 0.05	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
N683763		3.92	<0.05	4.7	3.09	7370	100	0.9	<2	0.08	<0.5	6	180	38	5.30	1.31
N683758		2.16	<0.05	7.0	1.99	185	70	0.8	<2	0.04	2.8	3	219	35	5.44	0.70
N683700		0.08		2.6	8.62	135	40	<0.5	6	4.39	1.4	205	28	8750	11.75	0.54

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 14-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002627

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA23
	Analyte	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn	Au
	Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2	0.005
N683763		0.25	151	11	0.05	41	260	16	4.68	23	20	0.08	48	10	102	
N683758		0.24	269	6	0.02	23	100	12	4.16	11	14	0.04	36	10	334	
N683700		2.59	1920	5	1.19	82	160	4	2.88	7	57	0.15	98	<10	158	1.245

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 16-Aug-2002
Account: KIV

CERTIFICATE VA02002661

Project : POLY

P.O. No: POL A6 102

This report is for 6 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 8-Aug-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying
SCR-41+	Screen to -180um (+) fraction

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	27 element four acid ICP-AES	ICP-AES

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
ATTN: DAVID MOLLOY
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

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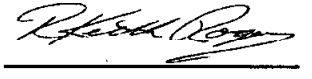
Signature: 

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212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 16-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002661

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
N683770		2.08	0.014	1.3	6.43	249	670	1.2	6	1.31	0.7	28	81	77	5.15	1.43
N683772		0.78	0.018	1.2	7.18	174	610	1.5	3	1.34	0.9	37	96	82	5.10	1.24
N683775		1.36	0.010	0.8	6.64	149	620	1.6	<2	1.26	1.2	41	67	71	4.50	1.33
N683779		1.08	0.014	1.7	7.37	170	630	1.6	<2	1.37	1.2	41	95	79	5.33	1.40
N683914		1.54	0.014	6.5	6.50	163	640	1.3	3	1.34	<0.5	27	92	69	4.90	1.42
N683825		0.38	<0.005	<0.5	3.66	6	350	0.6	<2	11.10	<0.5	6	18	11	2.09	1.18

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 16-Aug-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02002661

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Tl % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
N683770		1.40	1355	6	1.21	133	1190	25	0.12	8	195	0.29	113	30	234
N683772		1.47	1595	7	1.51	201	1210	40	0.05	9	233	0.33	119	10	273
N683775		1.20	1840	5	1.33	170	1370	35	0.10	7	211	0.29	104	<10	295
N683779		1.45	1465	8	1.54	250	1140	35	0.07	8	220	0.32	131	30	297
N683914		1.36	1330	4	1.26	125	1050	23	0.10	6	197	0.28	109	10	202
N683825		3.04	618	3	1.28	10	550	10	0.02	<5	305	0.27	45	10	51

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

CERTIFICATE VA02002973

Project : Poly

P.O. No:

This report is for 26 SEDIMENT samples submitted to our lab in North Vancouver, BC, Canada on 27-Aug-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
SCR-41+	Screen to -180um (+) fraction

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 element aqua regia ICP-AES	ICP-AES

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

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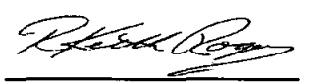
Signature: 

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UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002973

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
683654		0.52	<0.005	<0.2	0.20	2	<10	10	<0.5	<2	8.80	<0.5	3	7	8	0.83
683661		1.76	0.018	0.7	2.87	130	<10	120	1.4	<2	0.39	2.4	23	58	52	3.62
683669		1.72	0.055	0.8	2.36	181	<10	150	1.0	<2	0.66	0.7	31	94	66	4.69
683680		2.72	0.259	2.5	2.80	220	<10	170	0.9	<2	1.12	2.6	21	33	91	5.09
683693		1.40	0.019	0.5	2.31	167	<10	150	1.0	<2	0.40	0.6	29	96	62	4.78
683709		0.60	0.008	0.8	2.27	142	<10	100	1.2	<2	0.57	2.7	21	36	49	3.16
683713		1.14	0.018	0.9	2.34	175	<10	150	0.8	<2	0.42	<0.5	35	103	67	4.93
683717		1.14	<0.005	<0.2	1.88	21	<10	80	1.0	<2	0.28	0.6	14	44	22	2.44
683726		1.66	0.090	2.4	2.72	227	<10	170	0.6	<2	0.96	2.2	21	33	91	5.15
683731		2.44	0.116	2.0	2.66	215	<10	170	0.6	<2	1.07	2.5	21	31	93	5.12
683741		0.38	0.128	2.5	2.62	279	<10	140	0.7	<2	1.19	3.0	20	41	97	4.95
683794		1.62	0.028	0.8	2.23	182	<10	130	0.7	<2	0.47	0.5	29	91	61	4.87
683814		0.52	0.012	0.6	1.86	144	10	130	0.6	<2	0.69	<0.5	24	79	52	3.85
683831		1.84	0.349	2.5	2.56	235	<10	150	0.6	<2	1.02	2.4	19	33	84	4.91
683835		0.64	0.038	0.8	1.90	172	<10	100	<0.5	<2	0.30	<0.5	12	32	48	4.42
683860		1.26	0.013	<0.2	1.67	20	<10	110	0.6	<2	0.36	<0.5	10	51	23	2.89
683900		1.32	0.093	2.3	2.71	229	<10	150	0.7	<2	1.04	2.8	23	31	86	5.09
683907		1.44	0.010	0.7	2.79	130	<10	130	1.1	<2	0.42	1.7	22	84	47	3.73
683911		1.40	0.012	0.6	2.13	154	<10	140	0.7	<2	0.58	<0.5	24	94	55	4.46
683918		0.72	<0.005	0.2	1.82	6	<10	120	<0.5	<2	0.24	<0.5	12	15	92	3.60
683928		1.14	0.065	1.7	2.80	190	<10	170	0.6	<2	1.16	2.0	20	33	89	4.95
683939		1.38	0.075	2.7	2.39	184	<10	160	0.6	<2	1.03	1.9	20	32	87	4.87
683971		0.58	0.017	0.8	2.13	178	<10	140	0.7	<2	0.57	<0.5	25	88	53	4.52
683983		0.98	0.009	0.7	2.18	169	<10	140	0.7	<2	0.45	0.6	28	96	59	4.68
683996		0.46	<0.005	<0.2	0.18	2	<10	10	<0.5	<2	8.01	<0.5	2	7	6	0.79
683990		0.74	0.057	0.7	3.01	147	<10	170	0.7	<2	0.84	1.1	22	41	109	5.18

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002973

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683654		<10	1	0.03	10	2.25	258	<1	0.02	5	470	6	0.01	<2	1	106
683661		20	<1	0.22	10	0.75	1450	5	0.01	66	970	18	0.08	<2	4	28
683669		20	1	0.38	10	1.23	1270	2	0.03	132	970	24	0.08	4	6	50
683680		30	<1	0.44	10	1.26	1640	2	0.09	44	1210	47	0.10	2	6	96
683693		20	<1	0.42	10	1.28	1160	3	0.02	115	960	22	0.07	2	6	35
683709		20	<1	0.15	10	0.55	1265	4	0.01	58	1230	15	0.12	2	2	46
683713		20	<1	0.47	10	1.31	1265	3	0.02	124	980	20	0.05	6	7	29
683717		30	<1	0.13	20	0.58	1975	8	0.01	61	820	11	0.05	2	3	13
683726		30	<1	0.45	10	1.21	1690	3	0.09	43	1280	41	0.07	6	5	80
683731		30	<1	0.45	10	1.19	1650	3	0.09	43	1230	42	0.08	4	5	84
683741		20	<1	0.44	10	1.24	1460	3	0.07	49	1100	49	0.17	6	5	85
683794		20	<1	0.36	10	1.20	1175	2	0.02	117	1000	21	0.07	5	5	38
683814		20	1	0.34	10	0.98	991	2	0.02	103	1070	18	0.10	4	4	47
683831		20	<1	0.42	10	1.19	1450	2	0.09	41	1230	39	0.12	5	5	79
683835		20	<1	0.30	10	0.85	1055	3	0.03	27	1460	27	0.11	4	3	36
683860		20	<1	0.18	20	0.67	911	4	0.01	51	790	12	0.05	<2	3	16
683900		20	<1	0.42	10	1.22	1590	2	0.08	44	1300	48	0.10	5	5	86
683907		20	<1	0.28	10	0.81	1420	6	0.02	71	970	14	0.07	3	5	27
683911		20	<1	0.41	10	1.13	983	2	0.02	112	900	16	0.09	5	5	38
683918		10	<1	0.82	10	0.93	537	1	0.03	14	1390	7	0.08	<2	4	8
683928		30	<1	0.45	10	1.26	1610	2	0.09	41	1240	40	0.06	5	6	91
683939		20	<1	0.44	10	1.08	1560	3	0.07	41	1240	35	0.08	6	5	73
683971		20	<1	0.40	10	1.18	1055	2	0.02	112	1140	18	0.07	5	5	40
683983		20	<1	0.42	10	1.21	1185	2	0.03	109	1170	19	0.08	4	5	31
683996		<10	<1	0.03	10	1.89	221	<1	0.02	5	510	3	<0.01	<2	1	98
683990		30	<1	0.61	10	1.34	1540	2	0.09	41	1200	30	0.04	4	7	62

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002973

Sample Description	Method Analyte Units LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
683654		0.02	<10	<10	16	<10	32
683661		0.07	<10	<10	66	10	261
683669		0.10	<10	<10	72	10	175
683680		0.11	<10	<10	88	10	261
683693		0.11	<10	<10	75	10	155
683709		0.05	<10	<10	52	<10	252
683713		0.11	<10	10	78	<10	163
683717		0.06	<10	<10	43	<10	94
683726		0.10	<10	<10	83	<10	229
683731		0.11	<10	<10	83	<10	250
683741		0.10	<10	<10	82	<10	266
683794		0.09	<10	10	69	<10	167
683814		0.08	<10	<10	60	<10	147
683831		0.10	<10	<10	82	10	239
683835		0.09	<10	20	79	<10	118
683860		0.08	<10	20	54	<10	82
683900		0.10	<10	<10	82	<10	276
683907		0.08	<10	<10	73	<10	238
683911		0.10	<10	<10	67	<10	145
683918		0.15	<10	50	111	<10	71
683928		0.12	<10	<10	94	<10	223
683939		0.10	<10	<10	77	<10	218
683971		0.09	<10	10	68	<10	163
683983		0.10	<10	10	73	<10	154
683996		0.02	<10	<10	14	<10	29
683990		0.14	<10	10	97	10	199

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Date : 10-Sep-2002
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CERTIFICATE VA02002971

Project : Poly

P.O. No:

This report is for 167 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 27-Aug-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
SCR-41+	Screen to -180um (+) fraction

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 element aqua regia ICP-AES	ICP-AES

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
ATTN: DAVID MOLLOY
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

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Date : 10-Sep-2002
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Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683653		0.54	0.016	0.3	3.24	43	<10	140	0.6	<2	0.15	<0.5	10	61	49	4.31
683655		0.54	0.022	2.4	4.16	45	<10	100	0.8	<2	0.18	<0.5	13	45	68	3.46
683656		0.58	0.010	1.1	2.20	49	<10	50	<0.5	<2	0.05	<0.5	6	41	33	4.25
683657		0.60	0.011	0.3	0.53	39	<10	50	<0.5	<2	0.05	<0.5	4	24	36	2.94
683659		0.80	NSS	1.0	0.38	33	<10	40	<0.5	<2	0.14	<0.5	2	7	31	1.21
683660		0.64	0.015	1.6	6.61	67	<10	40	0.8	<2	0.03	<0.5	16	40	71	2.40
683662		0.78	0.012	0.7	2.70	167	<10	60	0.7	<2	0.06	<0.5	8	55	50	3.52
683664		0.76	0.016	0.3	0.54	29	<10	40	<0.5	<2	0.07	<0.5	2	27	37	1.40
683665		0.58	0.013	0.4	0.94	53	<10	100	<0.5	<2	0.06	<0.5	4	52	64	3.77
683666		0.42	0.005	0.3	0.70	42	<10	60	<0.5	<2	0.07	<0.5	5	42	34	2.23
683667		0.46	0.008	0.5	0.82	43	<10	80	<0.5	<2	0.12	<0.5	4	45	36	1.94
683668		0.84	0.015	0.3	2.29	145	<10	140	0.7	<2	0.36	<0.5	17	96	76	4.10
683670		0.86	0.035	<0.2	3.11	529	<10	200	1.0	<2	0.81	<0.5	35	46	74	5.57
683671		0.86	0.008	0.2	0.29	14	<10	40	<0.5	<2	0.12	<0.5	2	18	22	0.98
683672		0.44	<0.005	<0.2	1.06	84	<10	80	0.7	<2	0.16	<0.5	4	79	31	3.94
683673		0.76	<0.005	0.5	0.12	5	<10	70	<0.5	6	0.63	<0.5	1	2	25	0.20
683674		0.64	0.005	0.2	1.13	20	<10	40	<0.5	<2	0.04	<0.5	4	28	31	2.63
683675		1.00	0.005	<0.2	1.71	23	<10	60	0.8	<2	0.09	<0.5	11	43	19	2.96
683676		1.14	<0.005	<0.2	1.96	22	<10	50	0.6	<2	0.12	<0.5	9	29	14	2.52
683677		1.12	0.012	<0.2	2.02	21	<10	50	0.7	<2	0.06	<0.5	8	31	13	3.12
683678		0.54	0.006	0.7	1.46	32	<10	80	<0.5	<2	0.05	<0.5	5	25	41	2.51
683679		0.72	0.061	1.2	3.02	212	<10	170	0.8	<2	0.92	1.4	22	32	91	4.82
683681		0.74	0.102	0.5	2.24	146	<10	180	0.6	<2	1.29	1.0	20	22	90	4.11
683682		0.80	0.060	1.1	2.63	195	<10	210	0.7	<2	1.18	1.7	22	27	106	4.97
683683		0.74	0.050	1.1	2.23	133	<10	180	0.6	<2	0.82	0.6	17	21	74	4.60
683686		0.72	<0.005	0.3	0.35	18	<10	50	<0.5	<2	0.09	<0.5	2	20	60	2.24
683687		0.54	<0.005	<0.2	0.59	36	<10	40	0.5	2	0.06	<0.5	4	32	26	3.96
683688		1.04	<0.005	<0.2	1.55	28	<10	50	0.6	<2	0.04	<0.5	8	58	18	4.92
683689		0.44	0.006	<0.2	1.44	23	<10	70	0.6	<2	0.29	<0.5	10	35	17	2.51
683690		1.12	<0.005	<0.2	1.47	38	<10	40	<0.5	<2	0.04	<0.5	7	52	28	3.75
683691		0.88	<0.005	<0.2	1.56	21	<10	50	0.6	<2	0.07	<0.5	10	39	25	2.59
683692		0.54	0.082	0.4	1.23	124	<10	100	<0.5	<2	0.17	<0.5	9	60	43	2.91
683701		0.36	<0.005	<0.2	0.17	<2	<10	10	<0.5	3	9.25	<0.5	2	4	3	0.42
683702		0.48	0.036	<0.2	1.36	138	<10	70	<0.5	<2	0.61	<0.5	7	26	45	3.25
683703		0.72	0.010	0.4	1.44	95	<10	90	<0.5	<2	0.13	<0.5	8	63	52	3.17
683710		0.76	0.009	<0.2	2.13	172	<10	130	0.6	<2	0.38	<0.5	13	80	84	4.23
683714		0.68	<0.005	<0.2	1.38	27	<10	60	0.5	<2	0.12	<0.5	6	56	25	2.45
683715		0.86	<0.005	<0.2	1.27	20	<10	50	0.5	<2	0.10	<0.5	8	50	30	2.66
683716		0.56	<0.005	<0.2	1.24	36	<10	60	0.5	<2	0.06	<0.5	6	76	21	5.52
683718		0.74	0.006	<0.2	3.69	33	<10	60	0.9	<2	0.09	<0.5	12	64	30	3.12

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683719		0.50	<0.005	0.8	0.20	10	<10	130	<0.5	3	0.34	<0.5	2	6	10	0.60
683720		0.76	0.033	<0.2	2.31	213	<10	100	0.7	<2	0.22	<0.5	14	76	56	4.40
683722		0.74	0.030	0.4	0.96	78	<10	90	<0.5	<2	0.37	<0.5	9	17	44	2.37
683723		0.76	0.017	0.4	0.85	47	<10	60	<0.5	2	0.12	<0.5	4	18	34	2.20
683724		0.56	0.042	<0.2	0.97	55	<10	60	<0.5	<2	0.34	<0.5	4	16	25	2.04
683725		1.00	0.121	1.6	2.94	219	<10	180	0.8	<2	1.05	1.4	22	32	104	4.92
683727		0.86	0.075	1.3	3.21	240	<10	210	0.9	<2	1.05	2.2	24	34	112	5.40
683728		1.12	0.052	0.6	2.69	180	<10	160	0.7	<2	1.11	0.6	20	30	92	4.70
683729		0.46	<0.005	0.7	0.91	14	<10	80	<0.5	<2	0.31	2.4	9	11	123	2.57
683730		0.78	<0.005	1.0	0.12	2	<10	40	<0.5	2	0.23	<0.5	1	1	48	0.22
683777		0.94	0.016	<0.2	2.07	145	<10	130	1.0	<2	0.18	<0.5	31	81	58	4.01
683796		1.44	0.012	<0.2	1.76	116	<10	200	0.5	<2	0.28	<0.5	16	11	68	7.35
683797		1.50	0.018	<0.2	2.32	64	<10	310	0.6	<2	0.24	<0.5	15	14	56	6.66
683800		0.08	1.830	0.3	3.18	162	<10	10	<0.5	5	3.36	1.0	202	24	8420	9.44
683801		0.66	0.019	<0.2	2.09	68	<10	110	0.6	<2	0.32	<0.5	17	67	94	3.88
683802		0.46	0.025	<0.2	2.90	199	<10	160	1.1	<2	0.36	<0.5	31	101	76	4.91
683803		0.58	0.021	<0.2	2.53	209	<10	130	0.8	<2	0.19	<0.5	22	106	69	4.76
683804		1.18	0.015	<0.2	2.83	187	<10	130	0.9	<2	0.21	<0.5	23	105	62	4.69
683806		0.68	0.015	<0.2	1.68	141	<10	90	0.6	<2	0.16	<0.5	11	79	45	3.66
683807		0.66	0.017	<0.2	1.01	75	<10	80	<0.5	<2	0.06	<0.5	5	68	33	2.55
683811		0.82	0.024	0.8	2.50	193	<10	150	1.0	<2	0.34	<0.5	35	98	81	4.87
683813		0.48	0.017	<0.2	2.43	177	<10	150	1.0	<2	0.39	<0.5	27	99	64	4.67
683816		0.44	0.012	<0.2	2.43	186	<10	160	0.9	<2	0.71	0.5	30	95	64	4.62
683817		0.66	0.022	<0.2	2.31	182	<10	160	0.9	<2	0.64	<0.5	30	86	73	4.36
683818		0.96	0.017	<0.2	2.51	189	<10	150	1.0	<2	0.54	<0.5	32	99	68	4.69
683819		0.84	0.008	<0.2	3.65	40	<10	50	0.7	<2	0.06	<0.5	7	55	40	4.46
683820		0.56	0.013	0.3	1.97	63	<10	70	<0.5	<2	0.10	<0.5	4	58	38	3.16
683821		0.62	0.017	0.3	1.08	58	<10	80	<0.5	<2	0.30	<0.5	5	15	40	2.27
683824		0.58	0.006	<0.2	2.95	14	<10	210	0.7	<2	0.80	<0.5	41	14	310	5.04
683827		1.00	0.033	1.0	2.60	185	<10	180	0.8	<2	1.02	1.0	21	28	97	4.71
683830		0.96	0.160	1.1	3.07	239	<10	200	0.9	<2	0.97	1.6	24	33	113	5.31
683832		0.60	0.037	0.4	1.41	102	<10	70	<0.5	<2	0.26	<0.5	6	20	42	2.99
683833		0.58	0.018	0.4	0.71	48	<10	50	<0.5	<2	0.31	<0.5	3	11	35	1.84
683834		0.88	0.057	<0.2	0.89	76	<10	70	<0.5	<2	0.22	<0.5	4	15	34	2.66
683836		0.92	0.061	1.5	2.89	229	<10	180	0.8	<2	0.90	1.0	23	31	97	5.00
683837		0.94	0.014	0.3	1.48	120	<10	90	<0.5	<2	0.23	<0.5	9	46	65	3.37
683838		0.88	0.006	<0.2	1.99	104	<10	100	0.7	<2	0.19	<0.5	19	79	57	3.80
683839		0.84	0.011	0.2	1.09	84	<10	140	<0.5	<2	0.38	<0.5	13	48	42	2.42
683840		0.96	0.006	<0.2	2.19	26	<10	40	0.7	<2	0.06	<0.5	11	45	25	3.58
683841		0.62	<0.005	<0.2	1.48	32	<10	70	<0.5	<2	0.07	<0.5	4	68	29	4.47

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Date : 10-Sep-2002
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Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683842		0.60	0.027	1.1	0.27	8	<10	90	<0.5	<2	0.46	<0.5	2	9	12	0.51
683843		0.54	<0.005	0.3	1.01	25	<10	50	<0.5	<2	0.14	<0.5	4	39	27	3.84
683844		0.44	0.132	0.3	0.62	22	<10	70	<0.5	5	0.36	<0.5	3	9	32	1.53
683851		0.36	<0.005	1.2	0.14	2	<10	90	<0.5	4	0.69	<0.5	1	3	10	0.28
683861		0.92	0.006	<0.2	1.96	31	<10	60	0.5	4	0.04	<0.5	9	55	32	3.71
683862		1.00	0.014	<0.2	1.07	118	<10	110	<0.5	<2	0.15	<0.5	5	71	28	3.00
683863		0.68	0.014	<0.2	1.53	150	<10	100	0.5	<2	0.24	<0.5	13	74	32	3.93
683864		0.72	0.011	<0.2	0.95	98	<10	80	<0.5	<2	0.16	<0.5	6	54	30	2.79
683867		0.84	0.007	<0.2	1.18	107	<10	90	<0.5	<2	0.40	<0.5	10	58	34	3.21
683868		1.10	0.016	<0.2	1.53	148	<10	100	0.5	<2	0.23	<0.5	12	75	35	3.78
683869		1.12	0.032	<0.2	2.09	188	<10	120	0.8	<2	0.25	<0.5	25	86	58	4.50
683870		0.34	0.241	<0.2	2.00	130	<10	10	<0.5	<2	3.89	<0.5	22	116	112	6.35
683875		0.72	0.050	<0.2	2.35	179	<10	130	0.6	<2	0.44	<0.5	15	25	49	4.82
683876		0.94	0.058	0.2	2.67	173	<10	110	0.6	<2	0.41	<0.5	17	29	63	4.64
683883		0.74	0.047	<0.2	2.57	226	<10	90	0.6	<2	0.34	<0.5	17	29	59	5.07
683885		0.62	<0.005	<0.2	1.20	63	<10	80	<0.5	<2	0.17	<0.5	6	22	39	3.07
683887		0.64	0.026	<0.2	1.18	62	<10	110	<0.5	<2	0.73	<0.5	7	13	42	3.07
683891		0.64	0.079	1.3	1.12	41	<10	210	<0.5	<2	0.14	<0.5	7	14	48	2.75
683894		0.86	0.012	<0.2	1.92	67	<10	70	<0.5	<2	0.09	<0.5	8	37	47	4.21
683895		0.66	0.020	0.7	1.98	62	<10	90	<0.5	<2	0.19	<0.5	9	37	44	4.03
683896		0.58	0.039	0.8	2.18	99	<10	180	0.5	<2	0.80	1.2	15	19	56	4.20
683897		0.62	0.040	0.7	2.08	75	<10	120	<0.5	<2	0.58	0.7	19	26	58	3.83
683898		0.84	0.039	0.8	4.15	67	<10	110	0.5	<2	0.13	<0.5	12	55	68	5.37
683901		0.50	0.027	0.4	1.21	34	<10	90	<0.5	<2	0.22	<0.5	5	26	34	2.83
683902		1.06	0.013	0.3	0.71	30	<10	60	<0.5	<2	0.09	<0.5	3	11	29	2.21
683903		0.48	0.017	0.9	1.72	212	<10	60	<0.5	<2	0.06	<0.5	7	39	45	4.69
683904		0.76	<0.005	0.3	0.75	38	<10	90	<0.5	<2	0.09	<0.5	3	39	39	2.55
683905		0.42	0.014	1.0	2.55	140	<10	110	1.2	<2	0.55	3.1	24	38	52	3.30
683908		0.84	0.016	0.6	2.33	163	<10	140	0.8	<2	0.28	<0.5	29	103	64	4.88
683909		0.38	0.011	0.6	2.15	167	<10	190	0.8	<2	0.45	0.5	35	91	86	4.57
683917		0.92	0.009	<0.2	3.75	<2	<10	350	0.7	3	0.72	<0.5	26	16	201	6.51
683920		1.50	0.074	2.4	2.19	210	<10	140	0.6	<2	1.08	2.2	25	23	117	4.64
683921		0.84	0.055	1.8	2.41	168	<10	140	0.7	<2	0.60	1.0	19	26	69	4.64
683923		1.50	0.123	2.4	2.07	157	<10	150	0.5	<2	1.05	2.1	20	23	73	4.36
683925		1.40	0.106	1.9	2.28	208	<10	170	0.6	2	1.22	2.5	18	25	85	4.65
683926		0.80	0.015	0.7	2.20	150	<10	150	0.8	<2	0.39	0.5	27	93	61	4.66
683927		0.60	0.037	0.8	1.84	126	<10	140	0.5	<2	1.35	2.0	14	24	56	3.64
683929		0.60	0.058	0.8	1.55	129	<10	90	<0.5	<2	0.16	<0.5	10	60	51	3.40
683930		0.70	0.031	0.4	1.77	109	<10	90	<0.5	<2	0.25	<0.5	9	37	35	3.94
683932		0.68	0.026	0.4	0.88	18	<10	70	<0.5	<2	0.19	<0.5	3	30	29	1.53

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Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683933		1.48	0.018	1.7	2.61	178	<10	170	0.8	<2	1.08	1.6	21	29	94	4.75
683934		0.82	0.022	0.2	1.30	82	<10	70	<0.5	<2	0.32	<0.5	7	24	35	3.10
683935		0.76	0.017	0.8	1.96	56	<10	80	0.5	<2	0.59	<0.5	11	24	41	3.14
683936		0.56	0.023	0.5	1.11	56	<10	90	<0.5	<2	0.62	<0.5	6	18	36	2.25
683937		1.02	0.020	0.9	2.49	113	<10	90	0.7	<2	0.56	0.5	20	29	50	4.14
683940		0.86	0.053	1.5	2.46	176	<10	160	0.8	<2	1.05	1.3	18	25	60	4.59
683941		0.52	0.052	1.5	2.60	168	<10	160	0.8	<2	1.27	2.1	19	27	79	4.71
683951		0.74	0.006	0.5	0.75	26	<10	80	<0.5	<2	0.13	<0.5	5	14	23	2.58
683952		0.58	<0.005	<0.2	1.25	10	<10	120	0.5	<2	0.36	<0.5	9	8	34	2.89
683953		0.62	<0.005	0.2	0.19	2	<10	70	<0.5	<2	0.30	<0.5	1	2	24	0.54
683954		0.36	<0.005	0.9	0.26	2	<10	130	<0.5	<2	0.20	<0.5	1	3	12	0.49
683955		1.10	<0.005	0.2	0.29	4	<10	70	<0.5	<2	0.15	<0.5	2	7	11	1.18
683956		0.66	<0.005	0.4	1.52	87	<10	110	0.5	<2	0.12	<0.5	7	86	33	3.65
683957		1.40	<0.005	0.2	2.26	16	<10	50	0.8	<2	0.07	<0.5	8	23	18	2.94
683958		0.88	<0.005	0.3	2.24	17	<10	50	0.8	<2	0.10	<0.5	7	22	17	3.08
683959		1.08	0.013	0.2	1.23	89	<10	80	<0.5	<2	0.11	<0.5	5	77	24	3.02
683960		0.42	<0.005	0.3	0.24	11	<10	90	<0.5	<2	0.33	<0.5	2	10	24	0.60
683961		1.36	0.009	0.4	1.70	29	<10	60	0.7	<2	0.10	<0.5	10	46	29	3.00
683962		0.44	0.005	0.3	2.00	39	<10	70	0.9	<2	0.13	<0.5	12	52	32	3.38
683963		1.04	<0.005	0.5	1.49	31	<10	50	0.7	<2	0.09	<0.5	8	42	29	3.07
683964		0.98	<0.005	0.4	1.66	36	<10	60	0.7	<2	0.10	<0.5	10	50	33	3.24
683965		1.00	<0.005	0.4	1.23	29	<10	60	0.6	<2	0.11	<0.5	7	38	29	2.67
683966		0.48	0.009	0.4	1.46	92	<10	90	0.5	<2	0.10	<0.5	6	80	30	3.65
683967		0.86	0.011	0.5	1.51	148	<10	70	0.5	<2	0.10	<0.5	7	79	36	3.90
683968		0.50	0.007	0.5	0.71	68	<10	80	<0.5	<2	0.26	<0.5	6	37	37	2.22
683969		0.72	0.012	0.3	1.60	156	<10	90	0.6	<2	0.19	<0.5	12	80	28	4.16
683970		0.48	0.013	0.5	1.71	172	<10	100	0.6	<2	0.17	<0.5	10	87	34	4.39
683972		0.52	0.015	0.7	2.34	168	<10	160	1.0	<2	0.76	1.1	29	92	60	4.68
683974		0.34	0.008	<0.2	0.27	<2	<10	10	<0.5	<2	11.50	<0.5	3	6	11	0.84
683976		0.76	0.007	0.7	2.02	128	<10	130	0.8	<2	0.45	<0.5	20	79	59	4.24
683979		0.44	0.007	0.4	2.29	131	<10	140	0.9	<2	0.32	<0.5	23	90	51	4.71
683980		0.60	<0.005	0.8	2.18	151	<10	140	0.9	<2	0.37	<0.5	25	91	55	4.53
683984		0.72	0.023	0.8	1.83	133	<10	120	0.8	<2	0.27	<0.5	16	81	37	4.04
683985		0.76	<0.005	0.4	1.13	66	<10	80	<0.5	<2	0.20	<0.5	4	52	33	2.63
683986		0.58	0.068	1.3	3.39	171	<10	180	1.0	<2	0.76	1.5	23	42	102	5.38
683987		0.80	0.049	0.5	3.53	169	<10	210	1.0	<2	0.84	1.9	24	34	132	5.86
683988		0.84	0.038	1.3	3.24	184	<10	210	1.0	<2	1.02	1.8	24	36	116	5.52
683989		0.44	0.053	1.4	2.58	134	<10	160	0.8	<2	0.95	1.3	17	31	70	4.31
683852		0.68	0.005	0.2	1.15	23	<10	50	0.8	<2	0.08	<0.5	6	34	19	7.03
683853		0.40	<0.005	<0.2	0.24	2	<10	10	<0.5	<2	10.50	<0.5	2	6	9	0.80

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683854		0.72	0.006	<0.2	1.15	23	<10	80	<0.5	<2	0.02	<0.5	4	40	24	3.12
683855		0.46	<0.005	1.2	1.14	20	<10	80	<0.5	<2	0.17	<0.5	6	39	34	3.08
683856		0.56	<0.005	0.4	0.57	18	<10	70	<0.5	<2	0.11	<0.5	3	18	17	2.99
683857		0.76	<0.005	0.8	0.52	23	<10	90	<0.5	<2	0.08	<0.5	4	14	20	2.20
683858		0.42	<0.005	4.2	0.74	24	<10	80	<0.5	<2	0.09	<0.5	4	27	29	2.74
683859		0.82	0.006	1.2	2.12	24	<10	50	0.7	<2	0.06	<0.5	7	45	33	3.46

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CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683653		10	<1	0.16	<10	0.96	681	1	0.03	31	700	35	0.07	<2	4	23
683655		10	<1	0.30	<10	0.87	901	1	0.03	32	1270	19	0.07	<2	4	15
683656		10	<1	0.08	<10	0.52	329	2	0.01	23	1000	23	0.05	<2	3	3
683657		10	1	0.11	<10	0.18	226	3	0.01	13	1880	12	0.08	<2	1	5
683659		<10	<1	0.06	10	0.05	95	5	0.01	8	1160	12	0.20	<2	<1	12
683660		<10	<1	0.10	10	0.34	754	5	0.01	34	1670	15	0.10	<2	3	2
683662		10	1	0.17	<10	0.51	430	5	0.01	36	1140	17	0.11	<2	2	5
683664		<10	<1	0.09	<10	0.10	97	2	0.02	16	1260	9	0.18	<2	<1	6
683665		<10	<1	0.31	<10	0.35	214	8	0.02	20	1670	18	0.36	<2	2	4
683666		<10	<1	0.14	<10	0.23	149	2	0.01	24	1030	13	0.16	<2	1	7
683667		<10	<1	0.20	<10	0.31	215	2	0.02	26	1180	11	0.18	<2	1	10
683668		10	<1	0.42	<10	0.92	610	3	0.02	94	1170	19	0.14	<2	4	48
683670		10	<1	0.57	<10	1.13	1560	3	0.03	58	1140	24	0.10	<2	7	101
683671		<10	<1	0.08	<10	0.09	105	3	0.01	15	630	5	0.12	<2	<1	9
683672		20	<1	0.25	<10	0.40	212	16	0.01	29	550	17	0.07	<2	4	10
683673		<10	<1	0.04	<10	0.04	68	14	0.01	37	510	10	0.20	<2	<1	38
683674		10	<1	0.05	10	0.16	200	9	0.01	21	400	17	0.05	<2	1	1
683675		10	<1	0.14	10	0.55	636	6	0.01	39	550	19	0.02	<2	3	3
683676		<10	<1	0.10	10	0.48	500	5	0.01	28	660	12	0.02	<2	2	4
683677		10	<1	0.10	10	0.42	473	5	0.01	24	430	17	0.01	<2	2	1
683678		<10	<1	0.17	<10	0.35	268	1	0.01	20	1780	15	0.13	<2	1	8
683679		10	<1	0.50	<10	1.11	1800	2	0.09	37	1550	46	0.05	2	5	76
683681		10	<1	0.43	<10	0.91	2100	3	0.07	31	1360	37	0.10	<2	4	87
683682		10	<1	0.57	<10	1.09	1740	1	0.08	36	1570	45	0.10	2	6	88
683683		10	<1	0.43	<10	0.93	1505	2	0.07	24	1600	35	0.13	<2	4	74
683686		10	<1	0.04	10	0.06	89	5	0.01	15	440	12	0.03	<2	<1	10
683687		20	<1	0.07	10	0.10	283	13	0.01	15	710	23	0.04	<2	1	5
683688		10	<1	0.12	10	0.51	820	9	0.01	26	1120	26	0.03	<2	2	<1
683689		<10	<1	0.10	10	0.53	649	5	0.01	38	530	11	0.03	<2	2	15
683690		10	1	0.09	10	0.46	463	8	0.01	34	710	22	0.03	<2	2	<1
683691		10	<1	0.11	10	0.39	550	9	0.01	33	660	17	0.06	<2	2	3
683692		<10	<1	0.20	<10	0.55	482	1	0.02	46	1070	19	0.13	<2	2	13
683701		<10	<1	0.03	<10	1.68	208	<1	0.02	4	320	<2	0.01	<2	1	132
683702		<10	<1	0.25	<10	0.62	564	3	0.02	20	1230	26	0.13	<2	1	38
683703		<10	<1	0.25	<10	0.58	424	2	0.02	41	1140	12	0.13	2	2	11
683710		10	1	0.39	<10	0.80	452	5	0.03	68	1010	15	0.13	<2	4	63
683714		<10	<1	0.15	10	0.60	430	3	0.02	35	800	13	0.04	<2	2	6
683715		<10	1	0.15	10	0.55	457	2	0.02	35	830	13	0.03	2	3	4
683716		10	<1	0.13	10	0.48	399	7	0.01	29	1690	25	0.04	2	2	<1
683718		<10	<1	0.14	10	0.71	589	8	0.01	57	720	14	0.03	2	5	5

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CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683719		<10	<1	0.05	<10	0.08	175	2	0.01	9	660	3	0.09	<2	<1	33
683720		10	<1	0.28	<10	0.90	783	3	0.02	57	1160	26	0.10	<2	3	20
683722		<10	<1	0.17	<10	0.30	329	2	0.02	35	1020	17	0.15	<2	1	29
683723		<10	1	0.18	<10	0.27	225	3	0.02	14	1240	13	0.17	<2	1	20
683724		<10	<1	0.17	<10	0.31	327	2	0.02	13	970	14	0.15	<2	1	27
683725		10	<1	0.52	<10	1.19	1790	2	0.10	39	1470	48	0.05	<2	5	87
683727		10	<1	0.60	<10	1.34	1885	2	0.11	44	1360	54	0.04	2	7	88
683728		10	<1	0.44	<10	1.03	1810	2	0.08	34	1460	47	0.08	4	4	83
683729		10	<1	0.26	<10	0.25	527	1	0.01	14	1190	25	0.13	<2	1	16
683730		<10	<1	0.04	<10	0.04	166	2	0.01	6	610	8	0.22	<2	<1	13
683777		10	<1	0.36	10	0.96	1340	3	0.02	72	900	28	0.05	<2	5	14
683796		<10	<1	0.23	<10	0.54	1055	4	0.03	12	1770	31	0.26	<2	4	95
683797		10	<1	0.51	<10	1.03	1335	3	0.04	15	1780	29	0.23	<2	7	45
683800		10	<1	0.05	<10	1.87	1650	2	0.04	77	170	23	2.80	<2	6	<1
683801		10	<1	0.27	<10	1.07	1025	2	0.03	66	970	20	0.03	<2	5	18
683802		10	<1	0.45	<10	1.24	1365	3	0.03	104	1130	29	0.05	4	7	30
683803		10	<1	0.39	<10	1.15	1055	3	0.03	68	1060	27	0.07	3	5	14
683804		10	1	0.41	<10	1.14	1120	3	0.03	67	1180	28	0.06	<2	6	15
683806		10	<1	0.28	<10	0.82	567	2	0.02	52	850	20	0.08	4	4	15
683807		<10	<1	0.22	<10	0.45	279	2	0.02	25	1150	13	0.14	<2	2	6
683811		10	<1	0.45	<10	1.19	1330	3	0.03	131	1080	31	0.06	<2	6	30
683813		10	<1	0.52	<10	1.20	1145	2	0.03	108	970	27	0.04	<2	6	30
683816		10	1	0.46	<10	1.19	1295	2	0.03	123	1110	27	0.06	<2	6	56
683817		10	<1	0.42	<10	1.05	1235	2	0.03	114	1190	23	0.09	<2	5	53
683818		10	<1	0.44	<10	1.18	1355	3	0.03	107	1130	26	0.06	2	6	42
683819		10	<1	0.14	10	0.48	540	3	0.01	19	1080	25	0.06	<2	3	1
683820		10	<1	0.27	<10	0.54	282	2	0.02	18	930	15	0.12	<2	2	22
683821		<10	<1	0.19	<10	0.28	256	2	0.02	13	1040	15	0.18	<2	1	30
683824		10	<1	1.12	<10	1.40	1545	1	0.02	16	2850	13	0.07	<2	5	33
683827		10	<1	0.48	<10	1.07	1575	1	0.09	36	1340	42	0.06	<2	5	89
683830		10	<1	0.59	<10	1.28	1815	1	0.10	44	1360	50	0.05	<2	7	88
683832		<10	<1	0.20	<10	0.47	424	3	0.02	13	1330	22	0.15	<2	1	32
683833		<10	<1	0.17	<10	0.18	263	2	0.02	8	1410	14	0.19	<2	1	27
683834		<10	<1	0.22	<10	0.33	330	3	0.02	11	990	20	0.12	<2	1	27
683836		10	<1	0.53	<10	1.13	1905	1	0.09	38	1400	50	0.06	3	6	83
683837		<10	<1	0.23	<10	0.49	343	5	0.02	55	1250	14	0.17	<2	2	31
683838		10	1	0.32	10	0.95	913	3	0.02	70	960	19	0.05	<2	5	11
683839		<10	<1	0.21	<10	0.53	539	2	0.02	68	1010	15	0.13	2	2	32
683840		10	<1	0.09	10	0.48	682	11	0.01	36	540	22	0.04	<2	2	<1
683841		10	<1	0.08	<10	0.40	277	4	0.01	27	430	24	0.05	3	2	1

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683842		<10	<1	0.06	<10	0.09	81	2	0.01	9	960	5	0.16	<2	<1	39
683843		10	<1	0.04	<10	0.19	232	4	0.01	17	650	19	0.04	<2	1	6
683844		<10	<1	0.15	<10	0.18	240	3	0.01	10	1050	12	0.20	<2	1	29
683851		<10	<1	0.10	<10	0.12	349	1	0.01	6	940	6	0.14	<2	<1	58
683861		10	<1	0.11	<10	0.40	1235	4	0.01	24	830	21	0.05	<2	2	<1
683862		<10	<1	0.25	<10	0.55	268	2	0.03	29	1070	16	0.11	2	3	13
683863		<10	<1	0.27	<10	0.83	700	2	0.02	50	1150	22	0.10	<2	3	17
683864		<10	<1	0.19	<10	0.45	287	2	0.02	32	1070	13	0.12	2	2	13
683867		<10	<1	0.21	<10	0.62	520	1	0.02	46	1220	13	0.11	<2	2	19
683868		<10	<1	0.29	<10	0.80	643	2	0.02	52	1300	23	0.09	2	3	16
683869		10	<1	0.37	<10	1.03	1135	2	0.02	72	1280	26	0.07	4	5	17
683870		10	<1	0.04	<10	2.25	1480	1	0.01	70	760	28	0.76	2	8	61
683875		10	<1	0.37	<10	0.93	1425	2	0.06	22	1350	36	0.11	<2	4	62
683876		10	<1	0.39	<10	0.97	1685	2	0.06	25	1210	40	0.08	<2	4	52
683883		10	<1	0.32	<10	0.98	1855	2	0.06	24	1490	46	0.09	<2	4	51
683885		<10	1	0.23	<10	0.41	383	3	0.02	13	1380	20	0.16	2	1	27
683887		<10	<1	0.23	<10	0.48	597	2	0.03	14	1140	20	0.17	<2	2	43
683891		10	<1	0.21	<10	0.33	1355	2	0.03	14	1660	20	0.19	<2	1	25
683894		10	<1	0.21	<10	0.67	1150	2	0.02	27	1070	25	0.08	<2	2	11
683895		20	<1	0.27	10	0.70	728	3	0.04	22	1140	20	0.13	3	2	28
683896		30	<1	0.35	10	0.88	1790	3	0.05	22	1320	33	0.11	<2	3	63
683897		30	<1	0.40	10	0.82	1800	3	0.04	23	1220	23	0.11	2	2	59
683898		30	1	0.49	10	1.05	1295	2	0.02	26	3680	21	0.07	<2	4	7
683901		10	1	0.28	<10	0.49	441	2	0.02	13	1400	24	0.18	<2	1	31
683902		10	1	0.25	<10	0.26	205	2	0.01	7	1570	11	0.15	<2	1	25
683903		10	<1	0.15	10	0.55	493	7	0.01	26	970	17	0.13	2	1	4
683904		10	1	0.17	<10	0.27	163	2	0.01	17	1230	8	0.18	<2	1	9
683905		20	<1	0.15	10	0.58	1500	4	0.01	58	1080	16	0.12	4	2	40
683908		20	1	0.42	10	1.29	1275	2	0.03	96	1020	18	0.08	3	6	20
683909		20	<1	0.47	10	1.16	1370	2	0.02	99	1070	15	0.11	3	5	36
683917		30	1	1.54	10	2.08	1430	2	0.04	19	1680	5	0.03	<2	12	16
683920		20	1	0.35	10	0.93	1520	3	0.08	41	1330	40	0.10	3	4	84
683921		30	1	0.38	10	0.98	1730	3	0.07	27	1390	34	0.07	2	3	63
683923		20	<1	0.45	10	0.93	1355	2	0.07	37	1290	31	0.09	3	3	79
683925		20	<1	0.50	10	1.03	1460	3	0.08	35	1290	39	0.08	4	4	92
683926		20	<1	0.43	10	1.21	1135	2	0.02	104	1050	18	0.07	3	5	29
683927		20	<1	0.37	10	0.85	1135	2	0.06	29	1100	27	0.08	2	3	85
683929		10	<1	0.18	10	0.63	460	3	0.02	50	950	18	0.14	4	2	14
683930		20	<1	0.32	10	0.80	803	4	0.02	19	1080	19	0.12	3	2	31
683932		10	1	0.20	<10	0.29	126	2	0.02	15	990	7	0.20	<2	1	15

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Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
683933		30	1	0.50	10	1.14	1555	2	0.09	38	1350	39	0.08	2	5	86
683934		10	<1	0.28	10	0.62	482	3	0.02	17	1120	18	0.11	2	2	32
683935		20	1	0.33	10	0.69	981	3	0.07	18	1220	16	0.14	<2	2	43
683936		10	1	0.25	<10	0.46	435	2	0.03	14	1130	16	0.15	<2	2	47
683937		30	<1	0.38	10	0.86	2170	4	0.05	24	1580	31	0.12	<2	3	45
683940		20	<1	0.36	10	1.06	1580	2	0.08	29	1240	38	0.07	4	4	84
683941		30	<1	0.45	10	1.16	1565	2	0.09	35	1330	38	0.08	2	5	92
683951		10	1	0.10	10	0.22	285	7	0.01	10	760	10	0.05	<2	1	11
683952		10	<1	0.36	10	0.58	678	32	0.02	10	730	8	0.14	<2	3	43
683953		<10	1	0.05	<10	0.06	142	16	0.01	3	970	5	0.21	<2	<1	28
683954		<10	<1	0.05	<10	0.04	91	2	0.01	6	850	9	0.14	<2	1	31
683955		10	1	0.04	<10	0.10	216	1	0.01	5	330	6	0.03	<2	<1	15
683956		10	<1	0.24	10	0.71	366	2	0.02	34	750	12	0.11	2	3	8
683957		20	1	0.08	20	0.42	892	3	0.01	23	780	14	0.05	<2	1	1
683958		10	<1	0.08	20	0.40	581	3	<0.01	21	730	13	0.04	<2	1	1
683959		10	1	0.24	10	0.67	294	2	0.01	30	1100	11	0.10	2	3	8
683960		<10	<1	0.09	<10	0.13	159	1	0.01	46	730	8	0.21	<2	1	24
683961		10	1	0.13	20	0.55	611	10	0.01	40	680	13	0.06	<2	2	2
683962		20	<1	0.17	20	0.64	783	10	0.01	51	790	17	0.06	<2	3	3
683963		10	1	0.11	20	0.47	504	8	0.01	36	690	15	0.06	<2	2	2
683964		20	1	0.15	20	0.55	657	10	0.01	39	790	16	0.07	2	2	2
683965		10	<1	0.10	10	0.41	389	7	0.01	34	690	13	0.08	<2	2	4
683966		10	<1	0.25	10	0.76	420	1	0.02	33	810	13	0.10	<2	3	6
683967		10	<1	0.22	10	0.81	408	2	0.01	36	960	17	0.10	5	3	5
683968		10	<1	0.14	<10	0.30	278	1	0.01	37	1340	12	0.22	2	1	16
683969		10	1	0.24	10	0.96	675	2	0.01	45	860	18	0.09	4	4	13
683970		10	1	0.29	10	1.02	655	2	0.01	46	1090	21	0.10	2	4	10
683972		20	<1	0.45	10	1.28	1255	2	0.02	127	1180	22	0.09	3	6	53
683974		<10	<1	0.05	10	3.26	327	<1	0.02	5	480	8	0.02	<2	2	137
683976		20	<1	0.41	10	1.10	853	3	0.02	73	1000	17	0.07	2	5	23
683979		20	<1	0.39	10	1.30	1195	2	0.02	84	1040	21	0.05	2	6	18
683980		20	<1	0.43	10	1.22	989	2	0.02	91	1040	18	0.07	2	6	25
683984		20	<1	0.35	10	1.06	844	2	0.03	57	980	17	0.07	4	5	18
683985		10	1	0.23	10	0.61	316	2	0.02	26	1300	14	0.14	<2	2	14
683986		30	<1	0.49	10	1.42	1845	3	0.12	48	1110	32	0.03	<2	7	70
683987		30	<1	0.53	10	1.62	1640	1	0.09	48	1270	37	0.02	<2	8	66
683988		30	<1	0.71	10	1.45	1610	2	0.12	45	1410	33	0.02	<2	8	84
683989		20	<1	0.45	10	1.13	1445	1	0.09	35	1080	30	0.04	2	5	74
683852		40	<1	0.05	10	0.25	1035	4	<0.01	16	880	35	0.04	2	1	<1
683853		<10	<1	0.04	10	2.90	295	<1	0.02	5	490	7	0.01	<2	2	124

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CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
683854		10	<1	0.03	10	0.27	157	2	0.01	20	460	14	0.03	<2	1	1
683855		10	1	0.07	10	0.38	522	2	0.01	28	740	14	0.04	<2	1	16
683856		20	<1	0.06	10	0.10	456	3	0.01	10	880	19	0.04	<2	1	6
683857		10	<1	0.04	10	0.09	151	3	<0.01	15	360	10	0.03	2	1	12
683858		10	1	0.07	10	0.19	373	2	0.01	19	690	16	0.05	<2	1	6
683859		10	<1	0.09	20	0.42	460	5	0.01	30	690	16	0.07	<2	2	<1

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Tl	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683653		0.13	<10	<10	110	<10	106
683655		0.11	<10	<10	87	<10	103
683656		0.08	<10	<10	95	<10	80
683657		0.07	<10	<10	63	<10	36
683659		0.01	<10	<10	23	<10	41
683660		0.03	<10	<10	37	<10	72
683662		0.07	<10	<10	68	<10	102
683664		0.03	<10	<10	22	<10	27
683665		0.07	<10	<10	52	<10	34
683666		0.05	<10	<10	41	<10	41
683667		0.05	<10	<10	39	<10	37
683668		0.11	<10	<10	77	<10	117
683670		0.14	<10	<10	68	<10	205
683671		0.03	<10	<10	18	<10	28
683672		0.29	<10	<10	168	<10	34
683673		<0.01	<10	<10	3	<10	53
683674		0.07	<10	10	57	<10	36
683675		0.10	<10	10	55	<10	91
683676		0.07	<10	10	42	<10	65
683677		0.11	<10	10	54	<10	59
683678		0.04	<10	<10	48	<10	58
683679		0.12	<10	<10	99	<10	244
683681		0.10	<10	<10	83	<10	199
683682		0.12	<10	<10	101	<10	241
683683		0.10	<10	<10	88	<10	177
683686		0.06	<10	<10	52	<10	19
683687		0.14	<10	<10	128	<10	40
683688		0.11	<10	10	90	<10	88
683689		0.07	<10	10	45	<10	71
683690		0.07	<10	10	74	<10	58
683691		0.07	<10	10	50	<10	57
683692		0.06	<10	<10	51	<10	72
683701		0.01	<10	<10	7	<10	20
683702		0.05	<10	<10	58	<10	72
683703		0.07	<10	<10	56	<10	63
683710		0.11	<10	<10	73	<10	108
683714		0.07	<10	<10	54	<10	64
683715		0.07	<10	<10	52	<10	66
683716		0.10	<10	<10	109	<10	48
683718		0.06	<10	20	58	<10	104

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Tl	Ti	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683719		0.02	<10	<10	17	<10	29
683720		0.09	<10	<10	81	<10	137
683722		0.04	<10	<10	39	<10	87
683723		0.04	<10	<10	42	<10	47
683724		0.05	<10	<10	42	10	54
683725		0.12	<10	<10	95	<10	220
683727		0.15	<10	<10	109	<10	271
683728		0.11	<10	<10	94	<10	202
683729		0.07	<10	<10	66	<10	81
683730		<0.01	<10	<10	3	<10	37
683777		0.10	<10	<10	77	<10	129
683796		0.07	<10	<10	58	10	76
683797		0.14	<10	<10	106	<10	115
683800		0.03	<10	<10	59	<10	150
683801		0.06	<10	<10	66	<10	130
683802		0.12	<10	<10	93	<10	175
683803		0.11	<10	<10	87	<10	120
683804		0.12	<10	<10	90	<10	129
683806		0.09	<10	<10	68	<10	85
683807		0.07	<10	<10	54	<10	40
683811		0.11	<10	<10	82	<10	169
683813		0.12	<10	<10	83	<10	153
683816		0.11	<10	<10	79	<10	218
683817		0.10	<10	<10	73	<10	178
683818		0.12	<10	<10	82	<10	162
683819		0.10	<10	<10	79	<10	81
683820		0.09	<10	<10	67	<10	40
683821		0.05	<10	<10	42	<10	53
683824		0.21	<10	<10	162	<10	219
683827		0.12	<10	<10	96	<10	219
683830		0.14	<10	<10	104	<10	241
683832		0.06	<10	<10	63	<10	70
683833		0.03	<10	<10	33	<10	49
683834		0.06	<10	<10	52	<10	63
683836		0.12	<10	<10	98	<10	230
683837		0.07	<10	<10	57	<10	94
683838		0.10	<10	<10	69	<10	104
683839		0.05	<10	<10	40	<10	104
683840		0.07	<10	20	56	<10	70
683841		0.08	<10	<10	79	<10	44

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 10-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683842		0.01	<10	<10	9	<10	40
683843		0.06	<10	<10	74	<10	40
683844		0.03	<10	<10	29	<10	48
683851		0.01	<10	<10	5	<10	68
683861		0.10	<10	<10	78	<10	70
683862		0.08	<10	<10	66	<10	65
683863		0.08	<10	<10	65	<10	103
683864		0.06	<10	<10	48	10	65
683867		0.06	<10	<10	49	<10	86
683868		0.08	<10	<10	63	<10	100
683869		0.09	<10	<10	72	<10	128
683870		<0.01	<10	<10	48	<10	232
683875		0.10	<10	<10	87	<10	129
683876		0.10	<10	<10	90	<10	150
683883		0.11	<10	<10	92	<10	145
683885		0.06	<10	<10	58	<10	58
683887		0.06	<10	<10	55	<10	82
683891		0.04	<10	<10	48	<10	57
683894		0.07	<10	<10	87	<10	89
683895		0.08	<10	<10	78	10	73
683896		0.09	<10	<10	79	<10	165
683897		0.08	<10	<10	77	<10	105
683898		0.13	<10	<10	116	<10	90
683901		0.06	<10	<10	57	<10	52
683902		0.05	<10	<10	39	<10	35
683903		0.06	<10	<10	86	<10	130
683904		0.06	<10	<10	50	<10	34
683905		0.05	<10	<10	54	<10	236
683908		0.11	<10	<10	78	10	126
683909		0.11	<10	<10	72	10	146
683917		0.31	<10	30	234	10	103
683920		0.08	<10	<10	70	10	195
683921		0.09	<10	<10	80	10	163
683923		0.07	<10	<10	65	<10	207
683925		0.09	<10	<10	74	<10	247
683926		0.10	<10	<10	74	<10	143
683927		0.07	<10	<10	60	<10	173
683929		0.06	<10	<10	57	<10	82
683930		0.09	<10	<10	88	<10	80
683932		0.04	<10	<10	32	<10	29

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CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683933		0.11	<10	<10	81	10	195
683934		0.09	<10	<10	67	<10	78
683935		0.07	<10	<10	62	10	99
683936		0.06	<10	<10	44	<10	81
683937		0.08	<10	<10	78	10	193
683940		0.10	<10	<10	78	10	178
683941		0.11	<10	<10	85	10	227
683951		0.09	<10	<10	64	<10	42
683952		0.14	<10	<10	96	10	59
683953		0.02	<10	<10	10	<10	31
683954		0.01	<10	<10	10	<10	31
683955		0.03	<10	<10	24	<10	24
683956		0.09	<10	<10	66	10	54
683957		0.06	<10	<10	45	<10	80
683958		0.07	<10	<10	48	10	75
683959		0.08	<10	<10	61	10	56
683960		0.02	<10	<10	9	<10	51
683961		0.08	<10	<10	55	10	68
683962		0.09	<10	<10	61	10	83
683963		0.08	<10	<10	55	10	57
683964		0.08	<10	<10	60	10	64
683965		0.07	<10	<10	49	<10	51
683966		0.10	<10	<10	72	10	59
683967		0.09	<10	<10	73	10	70
683968		0.04	<10	<10	29	10	55
683969		0.09	<10	<10	69	10	93
683970		0.09	<10	<10	72	10	94
683972		0.11	<10	<10	74	10	199
683974		0.02	<10	<10	14	<10	41
683976		0.10	<10	<10	70	10	117
683979		0.09	<10	<10	74	10	135
683980		0.11	<10	<10	74	10	127
683984		0.09	<10	<10	70	10	105
683985		0.07	<10	<10	49	<10	65
683986		0.14	<10	<10	94	10	203
683987		0.17	<10	<10	109	10	235
683988		0.16	<10	<10	114	10	223
683989		0.11	<10	<10	78	<10	154
683852		0.18	<10	10	110	10	65
683853		0.02	<10	<10	15	<10	36

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Date : 10-Sep-2002
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Project : Poly

CERTIFICATE OF ANALYSIS VA02002971

Sample Description	Method Analyte Units LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
683854		0.03	<10	<10	68	<10	40
683855		0.03	<10	<10	46	<10	67
683856		0.07	<10	<10	60	10	44
683857		0.07	<10	<10	75	<10	36
683858		0.08	<10	<10	73	10	41
683859		0.08	<10	<10	60	<10	56

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 11-Sep-2002
Account: KIV

CERTIFICATE VA02002972

Project : Poly

P.O. No: POLA6102

This report is for 56 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 27-Aug-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

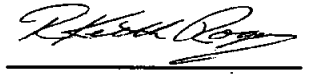
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 element aqua regia ICP-AES	ICP-AES
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
ATTN: DAVID MOLLOY
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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Date : 11-Sep-2002
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Project : Poly

CERTIFICATE OF ANALYSIS VA02002972

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
683651		3.48	0.333	1.6	0.45	10	<10	40	<0.5	<2	0.49	<0.5	29	84	731	3.51
683684		1.74	<0.005	<0.2	2.92	<2	<10	660	<0.5	<2	0.81	<0.5	11	31	11	4.16
683685		2.58	<0.005	<0.2	3.28	5	<10	30	<0.5	<2	1.74	<0.5	15	42	21	4.77
683782		3.98	9.48	>100	0.21	539	<10	10	<0.5	7	0.52	4.4	13	80	1070	4.50
683783		1.52	0.010	1.3	0.90	5	<10	30	<0.5	<2	1.15	<0.5	13	35	27	4.68
683784		1.34	0.015	1.1	1.11	32	<10	40	<0.5	<2	5.25	<0.5	10	59	86	1.75
683785		1.68	0.008	0.6	3.03	6	<10	50	<0.5	3	2.08	0.5	8	50	34	3.81
683786		1.36	0.018	0.9	0.72	18	<10	<10	<0.5	<2	1.13	<0.5	10	56	191	3.54
683789		1.92	<0.005	0.7	1.62	7	<10	70	<0.5	<2	1.22	<0.5	8	76	210	2.97
683790		1.24	0.007	1.4	2.15	20	<10	140	<0.5	2	0.93	<0.5	23	79	78	3.40
683791		1.10	0.630	11.5	0.07	2170	<10	10	<0.5	3	0.07	<0.5	2	100	15	4.60
683792		1.40	<0.005	1.3	3.15	10	<10	70	<0.5	<2	1.58	<0.5	10	28	20	5.17
683793		3.50	3.22	>100	0.23	3310	<10	10	<0.5	5	0.19	218	8	89	4070	7.79
683795		1.44	9.24	>100	0.03	195	<10	<10	<0.5	<2	0.03	2.1	2	91	265	4.54
683829		0.50	0.032	2.2	2.52	7	<10	450	<0.5	<2	0.63	<0.5	15	31	158	5.40
683845		1.64	0.013	1.4	3.11	12	<10	40	<0.5	2	2.00	0.7	15	38	45	5.34
683846		1.94	<0.005	0.9	1.49	2	<10	50	<0.5	<2	0.48	0.5	15	31	34	5.34
683847		2.02	<0.005	0.6	1.85	9	<10	60	<0.5	2	1.26	<0.5	14	32	42	4.67
683848		2.10	<0.005	<0.2	1.34	2	<10	20	<0.5	<2	0.36	<0.5	12	38	4	4.97
683849		2.06	<0.005	0.9	0.99	3	<10	50	<0.5	2	0.51	<0.5	15	30	24	5.63
683850		2.24	<0.005	0.5	0.31	<2	<10	10	<0.5	<2	0.80	<0.5	5	62	60	2.32
683877		2.24	0.009	<0.2	1.07	3	<10	110	<0.5	<2	0.75	<0.5	9	29	18	2.29
683878		1.86	<0.005	0.7	0.84	5	<10	30	<0.5	<2	0.63	<0.5	14	38	34	4.87
683881		2.20	<0.005	<0.2	3.71	<2	<10	270	0.5	<2	1.46	<0.5	10	39	29	3.64
683882		2.56	<0.005	0.3	1.08	5	<10	40	<0.5	<2	0.68	<0.5	15	33	35	5.30
683884		1.70	<0.005	0.6	0.32	6	<10	20	<0.5	<2	0.72	0.5	8	42	11	3.56
683886		1.62	<0.005	<0.2	1.20	<2	<10	20	<0.5	<2	0.30	<0.5	13	38	16	4.60
683888		0.74	<0.005	0.3	2.21	2	<10	100	<0.5	<2	1.29	<0.5	13	24	11	3.82
683889		1.18	<0.005	0.5	1.22	4	<10	50	<0.5	<2	0.66	<0.5	14	30	26	5.49
683890		1.46	<0.005	<0.2	1.83	5	<10	40	<0.5	<2	0.72	<0.5	12	28	10	4.71
683892		1.66	<0.005	0.6	0.64	12	<10	30	<0.5	<2	0.43	0.8	8	49	57	2.37
683893		1.84	0.885	6.8	0.12	1285	<10	10	<0.5	<2	0.01	1.9	1	103	43	1.03
683899		0.68	<0.005	0.2	3.59	<2	<10	50	0.5	<2	1.13	1.4	50	37	441	9.05
683915		1.74	<0.005	1.1	1.20	12	<10	20	<0.5	<2	0.54	<0.5	123	135	371	9.09
683916		0.74	<0.005	<0.2	1.08	2	<10	80	<0.5	<2	0.77	<0.5	6	20	23	2.23
683919		3.04	7.23	<0.2	5.13	4	<10	360	<0.5	<2	2.70	0.8	19	27	133	5.00
683931		1.62	0.007	0.4	2.02	3	<10	70	<0.5	<2	1.51	<0.5	12	33	26	4.32
683938		3.60	<0.005	0.3	0.79	15	<10	20	<0.5	<2	5.88	<0.5	17	67	246	1.90
683942		1.70	<0.005	0.2	0.94	4	<10	60	<0.5	<2	0.83	<0.5	10	81	132	2.27
683943		1.94	<0.005	>100	0.04	590	<10	<10	<0.5	3	0.04	30.8	5	123	869	2.60

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Date : 11-Sep-2002
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Project : Poly

CERTIFICATE OF ANALYSIS VA02002972

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683944		3.00	0.012	0.3	1.78	<2	<10	420	0.7	<2	0.55	<0.5	8	17	57	4.56
683945		1.82	0.011	0.6	1.76	10	<10	60	0.6	<2	5.97	<0.5	17	57	111	3.02
683946		2.68	<0.005	0.3	3.12	11	<10	30	0.8	<2	2.12	<0.5	9	27	82	3.29
683947		3.50	0.022	3.0	0.61	3	<10	10	<0.5	<2	1.13	2.3	146	35	4310	>15.0
683948		2.42	0.037	14.0	0.99	5	<10	20	<0.5	<2	0.54	0.6	75	40	4660	8.65
683949		1.66	<0.005	0.2	0.82	195	<10	10	0.6	<2	2.24	<0.5	23	91	303	2.88
683950		3.68	0.008	3.8	0.30	9	<10	10	<0.5	<2	0.72	1.0	37	52	524	12.90
683973		0.08	1.070	2.3	3.27	137	<10	<10	<0.5	<2	3.51	2.2	191	23	7790	10.05
683975		0.10	0.235	<0.2	1.89	126	<10	<10	<0.5	<2	3.82	1.2	22	115	107	6.50
683977		1.00	<0.005	<0.2	2.68	<2	<10	100	1.1	<2	0.18	<0.5	18	104	70	4.26
683978		2.84	0.008	0.6	1.01	351	<10	30	0.5	<2	0.06	<0.5	6	94	24	2.17
683981		1.64	<0.005	<0.2	2.15	261	<10	330	0.7	<2	0.58	<0.5	13	274	32	2.97
683982		3.16	0.008	1.3	1.60	9	<10	20	0.5	<2	1.52	1.8	88	76	648	13.45
683991		1.84	<0.005	0.7	1.94	<2	<10	30	0.7	<2	1.21	1.2	13	51	80	3.88
683922		2.38	<0.005	<0.2	1.61	23	<10	210	0.6	<2	1.07	<0.5	19	29	186	3.67
683924		3.06	<0.005	0.4	1.30	7	<10	40	0.5	<2	0.86	0.7	14	41	32	4.02

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683651		<10	<1	0.09	<10	0.22	264	1	0.03	12	530	2	1.69	<2	1	32
683684		10	<1	1.78	<10	1.28	836	2	0.17	3	860	2	0.02	<2	11	63
683685		10	<1	0.94	<10	1.32	932	2	0.26	7	1390	5	4.14	<2	7	105
683782		<10	<1	0.07	<10	0.16	660	3	0.01	12	150	335	3.19	198	<1	34
683783		<10	<1	0.40	<10	0.70	615	2	0.08	6	1440	6	4.21	<2	4	26
683784		<10	<1	0.10	<10	0.49	790	1	0.03	25	1690	2	0.27	2	3	539
683785		10	<1	0.27	<10	0.39	466	2	0.32	5	1330	9	2.68	<2	2	131
683786		<10	<1	0.02	<10	0.04	269	1	0.01	15	1470	2	1.60	<2	2	99
683789		<10	<1	0.10	<10	0.13	169	1	0.13	5	1230	9	1.97	<2	1	260
683790		10	<1	1.23	<10	1.23	591	47	0.19	36	900	11	0.99	3	7	35
683791		<10	<1	0.06	<10	0.01	92	3	0.01	12	200	403	4.54	33	<1	7
683792		10	<1	0.78	<10	0.78	906	3	0.29	6	1270	15	2.45	<2	5	88
683793		<10	<1	0.09	<10	0.13	2600	<1	0.01	6	410	444	4.29	368	2	14
683795		<10	1	0.02	<10	0.01	128	2	0.01	3	140	124	1.65	77	<1	2
683829		10	<1	2.10	<10	1.44	683	2	0.08	8	2360	5	0.40	<2	12	26
683845		10	<1	0.27	<10	0.40	377	1	0.48	6	1500	10	4.18	<2	4	274
683846		10	<1	0.94	<10	1.80	975	2	0.07	7	1470	7	3.29	<2	9	13
683847		10	<1	0.27	<10	0.45	261	2	0.29	6	1600	8	3.31	<2	4	243
683848		10	<1	0.96	<10	1.26	798	2	0.07	5	1510	5	4.20	<2	8	46
683849		<10	<1	0.43	<10	1.16	852	3	0.05	6	1740	7	3.26	<2	8	14
683850		<10	<1	0.03	<10	0.17	253	1	0.01	4	670	3	0.96	2	<1	33
683877		<10	<1	0.42	10	0.40	146	1	0.11	3	670	2	0.53	<2	2	54
683878		<10	<1	0.29	<10	0.62	469	2	0.08	5	1790	10	3.09	<2	4	21
683881		10	<1	1.29	<10	0.93	600	1	0.28	12	630	<2	0.67	<2	7	105
683882		10	<1	0.43	<10	0.72	569	2	0.12	6	1540	6	4.65	<2	6	35
683884		<10	<1	0.07	10	0.09	118	2	0.05	4	700	15	1.90	<2	2	20
683886		10	<1	0.91	<10	1.05	584	2	0.05	6	1290	2	3.92	<2	4	6
683888		10	<1	0.57	<10	0.93	800	2	0.33	4	2000	6	2.08	<2	7	88
683889		10	<1	0.70	<10	1.21	972	2	0.08	4	1760	8	3.14	<2	8	20
683890		10	<1	1.01	<10	1.21	930	4	0.14	4	1840	7	2.92	<2	9	25
683892		<10	<1	0.10	<10	0.18	143	24	0.09	48	890	8	1.22	2	7	27
683893		<10	<1	0.10	<10	0.02	25	6	0.01	3	80	140	0.32	21	<1	3
683899		20	<1	2.83	10	1.89	611	2	0.09	17	3820	6	1.67	<2	10	51
683915		10	<1	0.40	<10	0.46	177	3	0.11	168	320	2	5.08	<2	3	74
683916		<10	<1	0.67	<10	0.57	383	2	0.09	2	1430	3	0.03	<2	5	17
683919		20	<1	2.35	<10	1.63	838	2	0.49	12	1870	4	0.02	<2	14	146
683931		<10	<1	0.19	<10	0.34	180	2	0.27	5	1750	5	2.68	<2	1	106
683938		<10	<1	0.06	<10	0.46	713	1	0.01	25	530	3	0.40	<2	2	478
683942		10	<1	0.23	<10	0.57	349	1	0.05	8	1060	2	0.28	<2	2	57
683943		<10	<1	0.04	<10	0.01	61	1	0.01	6	70	406	2.31	111	<1	5

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
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Phone: 604 984 0221 Fax: 604 984 0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 11-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002972

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
683944		10	1	1.32	10	1.14	565	1	0.08	1	1040	4	0.12	<2	7	6
683945		10	<1	0.40	10	0.58	622	7	0.21	30	920	9	0.98	4	3	426
683946		10	<1	0.37	10	0.49	481	1	0.25	4	960	3	1.64	<2	3	90
683947		10	<1	0.05	20	0.36	416	2	0.04	32	750	<2	5.77	<2	1	34
683948		10	<1	0.37	10	0.53	396	1	0.05	23	1160	2	4.59	<2	3	26
683949		10	<1	0.05	<10	0.46	423	1	0.04	58	760	<2	1.16	<2	2	107
683950		10	<1	0.02	10	0.09	437	3	<0.01	7	440	2	9.82	2	<1	<1
683973		30	<1	0.03	20	2.19	1655	2	0.04	74	150	4	2.72	<2	6	<1
683975		20	<1	0.03	10	2.28	1420	2	<0.01	69	760	21	0.70	2	8	53
683977		20	<1	1.13	10	1.60	918	1	0.05	94	420	5	1.07	<2	12	12
683978		10	<1	0.21	10	0.64	130	2	<0.01	46	350	12	0.35	5	2	<1
683981		10	1	1.15	10	1.19	295	1	0.20	88	560	<2	0.46	2	12	46
683982		20	<1	0.18	20	1.10	664	3	0.02	105	6080	4	7.06	<2	4	<1
683991		10	<1	0.36	10	0.50	224	36	0.28	63	1020	5	2.41	<2	7	101
683922		10	<1	1.06	10	0.81	544	<1	0.11	19	2320	3	0.48	<2	7	52
683924		10	<1	0.23	10	0.48	334	37	0.14	8	1020	6	3.28	<2	3	89

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 11-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002972

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Zn-AA46
	Analyte	Tl	Tl	U	V	W	Zn	Ag	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	10	1	10	2	1	0.01
683651		0.02	<10	<10	25	<10	31		
683684		0.23	<10	<10	99	<10	115		
683685		0.13	<10	<10	117	<10	88		
683782		<0.01	<10	<10	10	<10	162	604	
683783		0.11	<10	<10	90	<10	71		
683784		0.08	<10	20	38	<10	15		
683785		0.05	<10	10	46	<10	97		
683786		0.09	<10	<10	19	<10	13		
683789		0.04	<10	<10	21	<10	15		
683790		0.15	<10	<10	90	<10	21		
683791		<0.01	<10	<10	1	20	67		
683792		0.12	<10	10	73	<10	94		
683793		<0.01	<10	<10	7	40	>10000	791	1.52
683795		<0.01	<10	<10	5	<10	280	126	
683829		0.37	<10	<10	191	<10	120		
683845		0.08	<10	<10	79	<10	78		
683846		0.14	<10	<10	123	<10	133		
683847		0.07	<10	<10	82	<10	56		
683848		0.13	<10	<10	130	<10	100		
683849		0.11	<10	<10	129	<10	57		
683850		0.04	<10	<10	10	<10	16		
683877		0.15	<10	<10	39	<10	52		
683878		0.09	<10	<10	82	<10	42		
683881		0.19	<10	<10	53	<10	55		
683882		0.09	<10	<10	110	<10	48		
683884		0.09	<10	<10	25	<10	77		
683886		0.10	<10	<10	81	<10	68		
683888		0.14	<10	<10	121	<10	59		
683889		0.11	<10	<10	120	<10	55		
683890		0.17	<10	<10	148	<10	40		
683892		0.10	<10	<10	93	<10	90		
683893		<0.01	<10	<10	4	<10	147		
683899		0.54	<10	10	489	<10	173		
683915		0.09	<10	<10	38	10	28		
683916		0.16	<10	<10	72	<10	39		
683919		0.32	<10	10	214	<10	66		
683931		0.04	<10	<10	30	<10	21		
683938		0.05	<10	20	24	<10	21		
683942		0.06	<10	<10	82	<10	39		
683943		<0.01	<10	<10	2	<10	2460	209	

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Date : 11-Sep-2002
Account: KIV

Project : Poly

CERTIFICATE OF ANALYSIS VA02002972

Sample Description	Method Analyte Units LOR	ME-ICP41 Tl % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-AA46 Ag ppm 1	Zn-AA46 Zn % 0.01
683944		0.31	<10	30	153	10	77		
683945		0.09	<10	<10	45	<10	30		
683946		0.09	<10	<10	50	10	37		
683947		0.03	<10	<10	29	20	25		
683948		0.10	<10	<10	69	10	48		
683949		0.04	<10	<10	20	<10	26		
683950		0.03	<10	<10	13	160	32		
683973		0.03	<10	<10	54	20	125		
683975		<0.01	<10	<10	43	10	214		
683977		0.16	<10	10	138	10	110		
683978		<0.01	<10	<10	28	<10	26		
683981		0.23	<10	20	125	<10	49		
683982		0.04	<10	<10	49	10	55		
683991		0.11	<10	10	124	<10	144		
683922		0.22	<10	20	165	<10	46		
683924		0.09	<10	<10	54	10	88		

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To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 18-Sep-2002
Account: KIV

CERTIFICATE VA02003247

Project : POLY

P.O. No: POLA6102

This report is for 77 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 12-Sep-2002.

The following have access to data associated with this certificate:

DAVID MOLLOY

SAMPLE PREPARATION

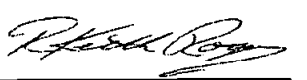
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 element aqua regia ICP-AES	ICP-AES

To: **GEOFINE EXPLORATION CONSULTANTS LTD.**
ATTN: DAVID MOLLOY
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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CERTIFICATE OF ANALYSIS VA02003247

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
683652		0.10	0.251	<0.2	1.79	129	<10	<10	<0.5	<2	3.90	0.9	21	103	106	6.25
683658		2.10	0.036	1.8	0.62	799	<10	30	<0.5	<2	0.20	5.7	8	34	81	2.32
683663		1.86	0.079	0.6	0.59	595	<10	20	<0.5	<2	0.06	1.3	4	62	21	1.48
683695		2.18	<0.005	1.1	0.60	6	<10	10	<0.5	<2	0.66	<0.5	82	21	428	5.84
683696		2.60	0.709	71.3	0.39	2480	<10	40	<0.5	<2	0.07	0.5	14	57	232	2.87
683697		1.52	0.005	0.2	3.61	9	<10	60	0.8	<2	0.99	<0.5	19	163	47	4.85
683698		1.10	<0.005	<0.2	1.76	18	<10	170	<0.5	<2	0.46	<0.5	13	224	36	2.66
683699		2.52	0.005	1.0	0.46	63	<10	20	<0.5	<2	8.06	1.4	21	24	89	5.30
683704		0.68	<0.005	<0.2	2.41	<2	<10	390	<0.5	<2	0.24	<0.5	9	40	20	3.71
683705		1.16	<0.005	0.4	1.61	11	<10	50	<0.5	<2	1.08	<0.5	49	85	204	4.96
683706		2.26	<0.005	0.9	1.13	10	<10	20	<0.5	<2	0.52	0.6	99	139	333	9.50
683707		2.52	<0.005	<0.2	5.11	81	<10	210	1.1	<2	2.91	<0.5	6	109	19	1.77
683708		3.06	<0.005	<0.2	1.58	4	<10	130	<0.5	<2	0.13	<0.5	17	132	55	3.82
683711		1.28	<0.005	<0.2	2.87	10	<10	230	0.5	<2	0.66	<0.5	8	59	37	3.72
683712		0.94	<0.005	0.6	2.95	10	<10	30	0.5	<2	1.96	0.9	122	86	450	8.79
683721		3.36	1.900	87.7	0.29	1505	<10	10	<0.5	4	0.13	0.6	7	82	136	3.28
683732		0.10	3.05	<0.2	1.50	9	<10	610	1.9	<2	4.23	0.5	20	123	89	4.28
683733		1.46	<0.005	0.5	0.77	5	<10	40	<0.5	<2	0.81	<0.5	6	68	56	2.34
683734		2.80	0.038	1.6	0.15	478	<10	<10	<0.5	<2	8.25	2.0	75	31	1250	9.34
683735		1.24	<0.005	0.6	0.96	37	<10	50	<0.5	<2	0.47	<0.5	19	85	96	3.08
683736		1.12	0.289	8.1	0.03	287	<10	<10	<0.5	<2	0.05	0.6	1	113	70	1.88
683737		2.52	0.112	0.8	0.61	37	<10	100	<0.5	<2	2.67	<0.5	17	63	443	3.29
683738		2.16	<0.005	0.5	0.35	6	<10	10	<0.5	<2	0.23	<0.5	23	111	299	4.66
683739		2.34	0.005	0.6	0.88	20	<10	30	<0.5	<2	0.22	<0.5	68	174	328	6.09
683740		2.64	<0.005	<0.2	3.60	<2	<10	300	0.5	<2	1.44	<0.5	10	61	35	3.33
683742		2.50	<0.005	<0.2	3.28	8	<10	100	0.5	<2	1.22	<0.5	14	194	67	3.99
683743		1.72	0.065	3.8	0.16	1090	<10	10	<0.5	<2	0.04	<0.5	3	95	15	0.92
683744		1.88	<0.005	<0.2	2.26	7	<10	80	<0.5	2	0.59	<0.5	26	200	69	4.32
683745		2.54	<0.005	<0.2	2.06	13	<10	120	1.0	<2	0.11	<0.5	20	146	59	3.69
683746		0.40	<0.005	<0.2	2.31	3	<10	150	0.6	<2	0.14	<0.5	28	99	83	3.89
683747		2.20	0.298	9.8	0.64	3090	<10	10	0.5	<2	0.01	<0.5	4	94	39	3.21
683749		1.28	<0.005	<0.2	1.32	23	<10	100	<0.5	<2	0.48	<0.5	6	103	37	1.77
683751		1.84	0.015	2.3	1.13	249	<10	20	<0.5	<2	0.10	<0.5	23	94	37	3.46
683752		0.62	<0.005	0.6	5.23	<2	<10	100	1.6	2	1.50	<0.5	34	230	77	6.21
683753		2.96	<0.005	0.4	2.57	7	<10	310	0.8	<2	0.15	<0.5	12	244	22	3.56
683754		2.52	<0.005	0.3	2.79	10	<10	260	0.9	<2	0.26	<0.5	11	125	46	4.01
683755		2.50	<0.005	0.5	5.86	54	<10	130	1.1	5	3.44	<0.5	18	197	71	3.36
683756		3.68	<0.005	0.5	1.65	15	<10	330	<0.5	<2	0.26	<0.5	9	260	14	2.56
683759		1.84	0.022	1.2	1.42	259	<10	160	0.8	<2	0.20	0.5	12	144	23	3.23
683760		3.22	0.010	0.5	1.17	258	<10	70	0.7	<2	0.16	<0.5	10	181	9	2.29

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Project : POLY

CERTIFICATE OF ANALYSIS VA02003247

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
683761		3.32	<0.005	0.7	1.65	71	<10	150	0.6	2	0.22	<0.5	8	199	15	2.56
683762		2.54	<0.005	0.4	2.18	16	<10	150	0.7	<2	0.13	<0.5	10	218	27	3.12
683764		5.20	0.023	0.5	1.18	227	<10	30	0.7	<2	0.16	<0.5	7	144	10	1.63
683765		2.56	<0.005	0.5	1.66	76	<10	100	0.6	<2	0.40	<0.5	11	231	16	2.81
683766		3.88	<0.005	0.4	1.88	53	<10	200	0.7	<2	0.26	<0.5	11	259	30	2.95
683767		3.22	<0.005	1.3	0.85	9	<10	10	<0.5	3	1.16	0.5	67	42	409	10.00
683769		4.14	<0.005	0.5	1.85	5	<10	170	<0.5	<2	0.60	<0.5	17	223	92	3.30
683771		2.54	<0.005	0.7	3.91	10	<10	200	1.0	3	0.99	<0.5	21	202	60	4.58
683773		2.48	<0.005	0.5	3.57	7	<10	220	0.5	6	1.80	<0.5	13	223	142	2.91
683776		2.10	<0.005	0.7	2.71	17	<10	530	0.8	<2	0.15	<0.5	9	253	30	3.43
683778		1.58	0.009	1.5	1.29	184	<10	70	0.8	<2	0.10	0.5	14	100	35	3.24
683781		0.10	0.247	0.5	1.97	136	<10	<10	<0.5	<2	3.93	1.0	20	120	109	6.54
683787		2.88	<0.005	0.6	3.57	11	<10	90	0.6	3	2.19	<0.5	28	99	143	3.62
683788		1.48	<0.005	0.3	0.42	2	<10	10	<0.5	<2	0.02	<0.5	14	167	83	2.42
683799		0.08	1.130	2.6	3.37	140	<10	10	<0.5	3	3.50	1.8	185	24	8040	9.76
683805		2.76	<0.005	0.5	3.40	2	<10	120	0.5	3	1.58	<0.5	15	227	127	4.30
683808		2.98	<0.005	0.4	5.46	6	<10	220	0.8	8	3.27	<0.5	6	84	44	2.46
683809		1.70	<0.005	0.5	3.12	18	<10	460	0.5	3	0.78	<0.5	15	338	45	3.50
683810		1.88	0.006	2.4	1.58	128	<10	80	0.9	<2	0.11	<0.5	16	42	57	3.61
683812		1.42	<0.005	0.9	3.67	4	<10	80	0.5	3	2.35	<0.5	19	212	76	4.73
683815		2.00	<0.005	0.4	2.50	6	<10	280	<0.5	<2	0.35	<0.5	7	254	55	3.71
683822		1.90	<0.005	0.5	1.89	33	<10	100	<0.5	2	1.22	<0.5	13	72	51	4.65
683823		1.36	<0.005	0.7	0.78	13	<10	40	<0.5	5	1.41	0.5	12	37	25	5.45
683826		2.54	<0.005	0.5	1.36	4	10	210	<0.5	<2	1.19	<0.5	7	29	65	2.91
683828		1.28	0.795	0.8	1.35	2	<10	90	0.6	2	1.16	<0.5	11	42	45	3.48
683865		1.12	<0.005	0.6	3.91	<2	<10	190	0.6	3	1.08	<0.5	9	93	31	4.07
683866		2.08	0.012	0.6	4.04	104	<10	100	0.5	5	3.43	0.5	23	128	108	4.22
683871		0.52	<0.005	0.8	2.65	4	<10	360	<0.5	<2	0.52	<0.5	6	111	28	3.23
683872		2.34	0.015	1.8	2.32	389	<10	40	0.5	3	0.96	0.6	17	132	309	8.28
683873		1.96	<0.005	0.3	2.06	15	<10	130	<0.5	<2	0.42	<0.5	7	175	44	2.83
683874		3.70	0.403	18.1	0.34	5960	<10	20	<0.5	<2	0.07	0.9	6	125	29	4.21
683879		2.36	<0.005	0.4	1.72	9	<10	60	<0.5	<2	0.61	<0.5	14	38	21	5.21
683880		3.66	<0.005	0.5	0.98	10	<10	40	<0.5	<2	0.70	<0.5	13	57	20	5.32
683906		2.74	<0.005	0.3	0.53	8	<10	20	<0.5	<2	0.47	<0.5	15	124	98	2.01
683910		2.38	<0.005	0.5	2.73	18	<10	190	<0.5	<2	0.19	<0.5	14	282	102	5.03
683912		3.20	<0.005	0.6	3.91	12	<10	150	0.7	<2	1.24	<0.5	22	208	98	4.35
683913		3.64	<0.005	0.5	3.35	2	<10	200	0.6	<2	1.29	<0.5	13	128	62	3.14

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To: GEOMINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

Date : 18-Sep-2002
Account: KIV

Project : POLY

CERTIFICATE OF ANALYSIS VA02003247

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683652		20	<1	0.03	10	2.19	1435	2	0.01	70	770	23	0.71	<2	7	60
683658		<10	1	0.20	10	0.28	185	17	0.01	38	1020	80	1.06	5	4	4
683663		<10	<1	0.14	10	0.35	145	6	0.01	16	270	6	0.06	10	1	<1
683695		10	<1	0.02	10	0.36	362	58	0.01	102	1200	<2	4.52	<2	<1	20
683696		<10	1	0.17	10	0.13	78	3	0.01	56	290	62	2.16	18	2	<1
683697		20	<1	1.61	10	1.80	450	1	0.26	97	840	3	1.57	2	14	99
683698		10	1	1.01	<10	1.13	298	1	0.14	86	550	<2	0.61	<2	8	28
683699		20	<1	0.03	60	0.38	1265	7	0.01	73	>10000	5	3.35	<2	3	148
683704		10	1	1.60	10	1.46	459	<1	0.07	14	670	2	0.41	3	14	5
683705		10	<1	0.11	10	0.19	138	1	0.10	63	380	<2	2.78	<2	1	140
683706		10	<1	0.33	10	0.39	222	3	0.08	94	260	<2	4.84	3	3	58
683707		10	<1	0.83	<10	1.01	187	23	0.45	102	1320	2	0.23	<2	13	344
683708		10	1	1.06	10	0.95	366	2	0.03	101	350	<2	1.00	2	7	2
683711		10	2	1.19	10	1.50	430	3	0.12	21	510	<2	0.66	2	10	64
683712		20	<1	0.12	10	0.32	189	2	0.25	259	690	<2	4.73	<2	<1	142
683721		10	<1	0.11	<10	0.08	319	4	0.01	31	300	57	2.32	20	1	<1
683732		20	1	0.81	40	2.46	917	12	0.04	53	2020	21	0.26	2	9	1385
683733		10	<1	0.07	<10	0.34	495	1	0.03	4	440	2	0.94	<2	<1	69
683734		10	<1	0.01	10	0.08	805	1	0.01	17	250	<2	5.38	<2	<1	193
683735		10	<1	0.24	10	0.65	306	9	0.04	23	1320	3	0.88	5	6	13
683736		10	<1	0.01	<10	0.04	1130	<1	0.01	4	30	42	1.00	7	<1	<1
683737		10	<1	0.24	10	0.39	571	<1	0.03	5	810	<2	1.00	<2	3	101
683738		<10	1	0.03	<10	0.07	75	1	0.02	31	100	<2	2.78	<2	<1	30
683739		10	<1	0.57	10	0.61	239	2	0.06	132	350	<2	3.00	2	3	9
683740		10	1	1.31	<10	1.28	395	<1	0.30	23	740	<2	0.73	4	16	88
683742		10	1	1.07	10	1.47	530	1	0.36	72	460	<2	1.52	<2	9	208
683743		<10	<1	0.08	<10	0.06	29	2	0.01	14	140	20	0.45	39	<1	1
683744		20	<1	1.45	10	1.50	749	3	0.08	147	2050	3	1.39	2	12	15
683745		10	<1	1.17	10	1.45	320	1	0.02	117	440	3	1.03	<2	3	<1
683746		20	<1	0.80	10	1.44	750	1	0.05	141	350	<2	1.16	<2	5	18
683747		10	<1	0.04	<10	0.30	272	3	0.01	24	50	39	1.41	22	1	<1
683749		10	<1	0.32	<10	0.63	238	<1	0.08	44	140	<2	0.41	<2	3	37
683751		<10	<1	0.17	<10	1.00	215	3	0.01	109	550	19	1.47	21	3	3
683752		10	<1	2.42	<10	2.45	498	3	0.22	148	380	8	1.74	<2	9	58
683753		10	<1	1.79	<10	1.69	283	1	0.05	83	390	3	0.19	<2	10	16
683754		<10	<1	0.84	<10	1.54	246	2	0.05	87	840	4	0.32	3	6	30
683755		10	<1	0.76	<10	1.08	404	2	0.46	118	1230	6	1.44	3	8	348
683756		10	<1	1.07	<10	1.27	337	1	0.08	70	480	2	0.06	<2	9	16
683759		<10	<1	0.42	<10	0.72	617	3	0.03	66	510	6	0.32	5	6	11
683760		<10	1	0.24	<10	0.68	606	1	0.02	71	380	7	0.05	2	5	8

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
683761		10	<1	0.64	<10	1.19	435	2	0.03	55	680	6	0.04	24	8	10
683762		10	<1	1.27	<10	1.42	287	2	0.03	61	510	3	0.22	13	10	7
683764		<10	<1	0.23	<10	0.79	320	1	0.01	62	410	6	0.10	7	3	7
683765		<10	<1	0.41	<10	1.32	585	1	0.04	116	520	4	0.16	<2	7	15
683766		10	<1	0.73	<10	1.30	426	1	0.07	92	480	4	0.24	11	8	22
683767		<10	<1	0.01	<10	0.30	723	8	0.01	77	2160	<2	5.91	<2	2	53
683769		10	<1	0.67	<10	1.06	282	2	0.20	84	530	2	0.99	<2	6	57
683771		10	<1	1.56	<10	1.80	437	4	0.25	131	520	6	0.98	<2	16	127
683773		10	<1	0.59	<10	0.81	392	3	0.32	68	430	3	0.95	<2	8	198
683776		10	<1	1.83	<10	1.89	413	2	0.07	66	490	2	0.27	<2	19	12
683778		<10	<1	0.31	<10	0.70	354	4	0.01	99	450	12	0.87	10	4	5
683781		<10	<1	0.04	<10	2.30	1495	3	0.01	71	840	21	0.78	<2	9	67
683787		10	<1	0.38	<10	0.68	289	5	0.14	150	460	2	1.86	<2	5	121
683788		<10	<1	0.13	<10	0.39	91	1	0.01	22	110	<2	0.73	<2	1	1
683799		10	<1	0.03	<10	2.06	1680	3	0.05	75	180	5	2.77	<2	7	8
683805		10	<1	0.68	<10	1.16	299	2	0.40	57	1050	3	1.60	<2	5	224
683808		10	<1	0.63	<10	0.84	229	2	0.37	23	500	3	0.78	5	8	237
683809		10	<1	1.66	<10	1.73	447	2	0.31	80	490	2	0.42	<2	12	99
683810		<10	2	0.36	<10	0.84	502	3	0.02	96	430	17	1.08	26	3	6
683812		10	1	1.23	<10	1.77	1185	6	0.31	85	4660	5	2.65	4	13	138
683815		10	<1	1.56	<10	1.71	332	2	0.15	53	530	2	0.81	<2	11	52
683822		<10	<1	0.44	<10	0.81	634	2	0.27	7	1770	6	2.67	2	6	104
683823		<10	<1	0.20	<10	0.25	603	6	0.11	5	1770	14	3.67	<2	3	35
683826		<10	<1	0.66	<10	0.69	515	1	0.17	5	2070	<2	0.07	<2	5	42
683828		<10	<1	0.23	<10	0.12	154	2	0.08	6	560	17	2.30	3	2	44
683865		10	<1	1.49	<10	1.45	668	2	0.35	26	520	3	0.80	<2	14	90
683866		10	<1	0.36	<10	0.68	489	3	0.41	137	2490	9	2.13	5	6	204
683871		10	<1	1.26	<10	1.31	396	3	0.16	16	440	3	0.56	<2	12	49
683872		10	<1	0.61	<10	1.61	742	1	0.08	52	4000	10	3.72	3	9	32
683873		10	<1	1.08	<10	1.45	266	1	0.14	33	510	<2	0.58	<2	7	129
683874		<10	<1	0.17	<10	0.09	103	12	0.01	30	280	46	3.43	85	2	5
683879		<10	<1	1.05	<10	1.50	928	1	0.12	7	1510	7	3.78	<2	10	24
683880		<10	<1	0.43	<10	0.87	600	2	0.08	6	1740	5	4.04	<2	7	95
683906		<10	1	0.05	<10	0.09	115	1	0.08	49	340	2	0.94	<2	1	60
683910		10	<1	1.81	<10	1.99	350	1	0.08	92	480	<2	1.24	<2	8	15
683912		10	<1	1.30	<10	1.65	370	3	0.18	112	930	3	1.19	<2	9	117
683913		10	<1	1.11	<10	1.29	298	2	0.30	78	670	3	0.79	<2	13	119

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49 NORMANDALE RD.
UNIONVILLE ON L3R 4J8

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CERTIFICATE OF ANALYSIS VA02003247

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Tl	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683652		<0.01	<10	<10	40	10	210
683658		<0.01	<10	<10	27	<10	332
683663		<0.01	<10	<10	17	<10	117
683695		0.02	<10	<10	16	60	21
683696		<0.01	<10	<10	9	<10	69
683697		0.23	<10	<10	125	<10	69
683698		0.14	<10	<10	71	<10	53
683699		0.02	<10	<10	16	10	106
683704		0.28	<10	<10	85	<10	84
683705		0.04	<10	<10	19	10	17
683706		0.08	<10	<10	41	10	37
683707		0.12	<10	80	260	<10	68
683708		0.17	<10	<10	81	<10	67
683711		0.20	<10	<10	73	<10	92
683712		0.05	<10	<10	21	10	20
683721		<0.01	<10	<10	8	<10	63
683732		0.11	<10	70	106	10	78
683733		0.02	<10	<10	14	<10	42
683734		<0.01	<10	<10	3	10	31
683735		0.09	<10	<10	116	<10	37
683736		<0.01	<10	<10	1	<10	66
683737		0.07	<10	<10	48	<10	37
683738		0.01	<10	<10	5	30	9
683739		0.12	<10	<10	48	10	32
683740		0.20	<10	<10	92	<10	61
683742		0.15	<10	<10	71	10	72
683743		<0.01	<10	<10	4	<10	82
683744		0.21	<10	<10	117	<10	71
683745		0.12	<10	<10	67	<10	62
683746		0.09	<10	<10	98	<10	98
683747		<0.01	<10	<10	15	<10	60
683749		0.04	<10	<10	33	<10	32
683751		<0.01	<10	<10	38	<10	80
683752		0.28	<10	<10	30	10	134
683753		0.29	<10	<10	110	<10	67
683754		0.16	<10	<10	98	<10	110
683755		0.17	<10	<10	80	10	43
683756		0.26	<10	<10	94	<10	56
683759		0.04	<10	<10	48	<10	120
683760		0.02	<10	<10	37	<10	73

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
683761		0.11	<10	<10	81	<10	49
683762		0.19	<10	<10	103	<10	58
683764		0.01	<10	<10	32	<10	41
683765		0.08	<10	<10	65	<10	88
683766		0.13	<10	<10	79	<10	61
683767		0.06	<10	<10	20	30	16
683769		0.15	<10	<10	58	<10	49
683771		0.29	<10	<10	151	<10	67
683773		0.14	<10	<10	78	<10	44
683776		0.40	<10	<10	196	<10	62
683778		0.02	<10	<10	38	<10	115
683781		<0.01	<10	<10	46	10	226
683787		0.10	<10	<10	47	20	30
683788		0.01	<10	<10	10	<10	15
683799		0.03	<10	<10	55	<10	135
683805		0.13	<10	<10	56	<10	55
683808		0.13	<10	<10	59	<10	33
683809		0.25	<10	<10	109	<10	82
683810		<0.01	<10	<10	16	<10	78
683812		0.17	<10	<10	127	<10	108
683815		0.19	<10	<10	95	<10	55
683822		0.15	<10	<10	104	<10	55
683823		0.06	<10	<10	48	<10	39
683826		0.21	<10	<10	105	<10	46
683828		0.04	<10	<10	8	<10	16
683865		0.29	<10	<10	97	<10	80
683866		0.09	<10	<10	53	10	35
683871		0.25	<10	<10	80	<10	63
683872		0.10	<10	<10	94	<10	44
683873		0.09	<10	<10	49	<10	46
683874		<0.01	<10	<10	10	<10	131
683879		0.13	<10	<10	145	<10	91
683880		0.12	<10	<10	108	<10	49
683906		0.05	<10	<10	12	<10	9
683910		0.21	<10	<10	68	<10	66
683912		0.18	<10	<10	105	<10	72
683913		0.22	<10	<10	85	<10	50

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

A0224364

Comments: ATTN: DAVID MOLLOY

CERTIFICATE A0224364

(KIV) - GEOFINE EXPLORATION CONSULTANTS LTD.

Project: POLY
P.O. # : POLAg1502

Samples submitted to our lab in Mississauga, ON
This report was printed on 25-SEP-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
208	1	Assay ring to approx 150 mesh
270	1	19-26 Kg crush and split
3202	1	Rock - save entire reject
3285	1	ICP-587 Tri Acid Dig'n Charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-GRA21	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0
Ag-ICP61	1	Ag ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	100
Al-ICP61	1	Al %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
As-ICP61	1	As ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Ba-ICP61	1	Ba ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Be-ICP61	1	Be ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	1000
Bi-ICP61	1	Bi ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
Ca-ICP61	1	Ca %: Tri Acid Dig. ICP Package	ICP-AES	0.01	25
Cd-ICP61	1	Cd ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	500
Co-ICP61	1	Co ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cr-ICP61	1	Cr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cu-ICP61	1	Cu ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Fe-ICP61	1	Fe %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
K-ICP61	1	K %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Mg-ICP61	1	Mg %:Tri Acid Dig. ICP Package	ICP-AES	0.01	15.00
Mn-ICP61	1	Mn ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Mo-ICP61	1	Mo ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Na-ICP61	1	Na %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Ni-ICP61	1	Ni ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
P-ICP61	1	P ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Pb-ICP61	1	Pb ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
S-ICP61	1	S %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Sb-ICP61	1	Sb ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Sr-ICP61	1	Sr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Ti-ICP61	1	Ti %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
V-ICP61	1	V ppm: Tri Acid Dig. ICP Package	ICP-AES	1	10000
W-ICP61	1	W ppm: Tri Acid Dig. ICP Package	ICP-AES	10	10000
Zn-ICP61	1	Zn ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
W-XRF05	1	W ppm: Trace XRF package	XRF	10	10000

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To: GEOFINE EXPLORATION CONSULTANTS LTD. -*

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project : POLY
Comments: ATTN: DAVID MOLLOY

Page Number :1-A
Total Pages :1
Certificate Date: 25-SEP-2002
Invoice No. : I0224364
P.O. Number : POLAg1502
Account : KIV

CERTIFICATE OF ANALYSIS A0224364

SAMPLE	PREP CODE		Au FA g/t	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)
SPEC	208	270	3.10	< 0.5	3.24	15	810	< 0.5	8	0.76	1.0	< 1	83	25	20.39	1.42	0.62	1075	8	0.02	20

CERTIFICATION:_____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project : POLY
Comments: ATTN: DAVID MOLLOY

Page Number :1-B
Total Pages :1
Certificate Date: 25-SEP-2002
Invoice No. :I0224364
P.O. Number :POLAg1502
Account :KIV

CERTIFICATE OF ANALYSIS A0224364

SAMPLE	PREP CODE		P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	W ppm
SPEC	208	270	140	< 2	0.09	< 5	42	0.05	45	690	50	702

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project : POLY
Comments: ATTN: DAVID MOLLOY

Page Number : 1-A
Total Pages : 1
Certificate Date: 25-SEP-2002
Invoice No. : I0224364
P.O. Number : POLAg1502
Account : KIV

CERTIFICATE OF ANALYSIS A0224364

SAMPLE	PREP CODE		Au FA g/t	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)
SPEC	208	270	3.10	< 0.5	3.24	15	810	< 0.5	8	0.76	1.0	< 1	83	25	20.39	1.42	0.62	1075	8	0.02	20

CERTIFICATION: _____

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Project : POLY
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Page Number : 1-B
Total Pages : 1
Certificate Date: 25-SEP-2002
Invoice No. : I0224364
P.O. Number : POLAg1502
Account : KIV

CERTIFICATE OF ANALYSIS A0224364

SAMPLE	PREP CODE		P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	W ppm
SPEC	208	270	140	< 2	0.09	< 5	42	0.05	45	690	50	702

CERTIFICATION:

APPENDIX B:

XRAL CERTIFICATES OF ANALYSIS

XRAL ANALYTICAL SERVICES
11-Nov-02

Sample Ident	Au	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Scheme Code	FA301	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Analysis Unit	ppb	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	1	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5	0.5
683680	96	<0.5	0.08	1.23	2.75	0.13	0.52	1.08	6.2	0.11	100	36	1720	5.2	22	48	95.6	268
683696	670	<0.5	0.02	0.12	0.42	0.03	0.25	0.07	2.1	<0.01	9	60	78	2.8	13	51	220	66.3
683795	5250	<0.5	<0.01	<0.01	0.02	0.01	0.02	0.03	<0.5	<0.01	4	86	123	4.31	2	2	244	253
683782	91	<0.5	0.01	0.16	0.21	0.01	0.08	0.53	0.5	<0.01	11	86	666	4.59	13	12	1030	163
683845	52	<0.5	0.4	0.39	2.53	0.14	0.29	1.74	3.7	0.07	78	40	351	5.16	14	6	42	67.4
683893	909	<0.5	0.01	0.02	0.13	<0.01	0.13	0.01	<0.5	<0.01	5	107	25	1.02	<1	3	40.3	136
683900	113	<0.5	0.09	1.22	2.76	0.14	0.51	1.02	5.9	0.1	96	33	1690	5.11	24	47	86.5	273
683919	17	<0.5	0.33	1.56	4.14	0.17	2.39	2.29	13.5	0.27	229	29	804	4.93	19	13	125	61.1
683943	7760	<0.5	0.01	<0.01	0.05	<0.01	0.05	0.05	<0.5	<0.01	<2	134	64	2.69	4	6	861	2500
683855	111	<0.5	0.01	0.38	1.2	0.08	0.09	0.18	2.3	0.02	53	41	542	3.25	7	30	35.4	71.6
DUP-683680	118	<0.5	0.09	1.23	2.73	0.13	0.52	1.06	6.1	0.11	99	36	1710	5.11	22	48	88.5	261

Sample Ident	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li
Scheme Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Analysis Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1
683680	256	94.5	9.4	<0.5	2	2.6	3	<10	<5	180	5	<10	54	<5	27
683696	2450	3.8	2	0.5	3	>10	<1	<10	18	42	3.5	<10	68	<5	2
683795	196	3.3	0.5	<0.5	2	>10	2	<10	70	5	<0.5	<10	134	<5	<1
683782	587	37.5	1.1	<0.5	3	>10	5	<10	193	9	<0.5	<10	388	<5	2
683845	5	240	4.6	1.2	<1	1.6	<1	<10	<5	98	2.9	<10	9	<5	10
683893	1280	3.1	<0.5	<0.5	6	7.4	2	<10	18	13	1.2	<10	153	<5	1
683900	237	96.4	9.5	<0.5	2	2.2	3	<10	<5	163	5.1	<10	48	<5	29
683919	<3	106	6.8	1.3	<1	0.5	<1	<10	<5	363	2.1	<10	<2	<5	30
683943	642	6.1	<0.5	<0.5	<1	8.5	35	<10	119	7	<0.5	<10	472	<5	<1
683855	18	21.7	2	2.4	2	1.7	<1	<10	<5	83	7	<10	17	<5	9
DUP-683680	242	92.9	9.3	<0.5	2	2.6	3	<10	<5	180	4.6	<10	50	<5	27

XRAL ANALYTICAL SERVICES
21/11/02

Sample Ident	Au	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Scheme Code	FA301	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Analysis Unit	ppb	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	1	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5	0.5
683680	96	<0.5	0.08	1.23	2.75	0.13	0.52	1.08	6.2	0.11	100	36	1720	5.2	22	48	95.6	268
683696	670	<0.5	0.02	0.12	0.42	0.03	0.25	0.07	2.1	<0.01	9	60	78	2.8	13	51	220	66.3
683795	>5000	<0.5	<0.01	<0.01	0.02	0.01	0.02	0.03	<0.5	<0.01	4	86	123	4.31	2	2	244	253
683782	>5000	<0.5	0.01	0.16	0.21	0.01	0.08	0.53	0.5	<0.01	11	86	666	4.59	13	12	1030	163
683845	52	<0.5	0.4	0.39	2.53	0.14	0.29	1.74	3.7	0.07	78	40	351	5.16	14	6	42	67.4
683893	909	<0.5	0.01	0.02	0.13	<0.01	0.13	0.01	<0.5	<0.01	5	107	25	1.02	<1	3	40.3	136
683900	113	<0.5	0.09	1.22	2.76	0.14	0.51	1.02	5.9	0.1	96	33	1690	5.11	24	47	86.5	273
683919	17	<0.5	0.33	1.56	4.14	0.17	2.39	2.29	13.5	0.27	229	29	804	4.93	19	13	125	61.1
683943	>5000	<0.5	0.01	<0.01	0.05	<0.01	0.05	0.05	<0.5	<0.01	<2	134	64	2.69	4	6	861	2500
683855	111	<0.5	0.01	0.38	1.2	0.08	0.09	0.18	2.3	0.02	53	41	542	3.25	7	30	35.4	71.6
DUP-683680	118	<0.5	0.09	1.23	2.73	0.13	0.52	1.06	6.1	0.11	99	36	1710	5.11	22	48	88.5	261

Sample Ident	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li	Ag
Scheme Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	AA73
Analysis Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/mt
Detection Limit	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1	0.3
683680	256	94.5	9.4	<0.5	2	2.6	3	<10	<5	180	5	<10	54	<5	27	n.a.
683696	2450	3.8	2	0.5	3	>10	<1	<10	18	42	3.5	<10	68	<5	2	77.9
683795	196	3.3	0.5	<0.5	2	>10	2	<10	70	5	<0.5	<10	134	<5	<1	131
683782	587	37.5	1.1	<0.5	3	>10	5	<10	193	9	<0.5	<10	388	<5	2	>500
683845	5	240	4.6	1.2	<1	1.6	<1	<10	<5	98	2.9	<10	9	<5	10	n.a.
683893	1280	3.1	<0.5	<0.5	6	7.4	2	<10	18	13	1.2	<10	153	<5	1	n.a.
683900	237	96.4	9.5	<0.5	2	2.2	3	<10	<5	183	5.1	<10	48	<5	29	n.a.
683919	<3	106	6.8	1.3	<1	0.5	<1	<10	<5	363	2.1	<10	<2	<5	30	n.a.
683943	642	6.1	<0.5	<0.5	<1	8.5	35	<10	119	7	<0.5	<10	472	<5	<1	221
683855	18	21.7	2	2.4	2	1.7	<1	<10	<5	83	7	<10	17	<5	9	n.a.
DUP-683680	242	92.9	9.3	<0.5	2	2.6	3	<10	<5	180	4.6	<10	50	<5	27	n.a.

APPENDIX C:

REPORT ON THE

VERTICAL FIELD MAGNETICS SURVEY

BY

JVX LTD .

POLY PROPERTY
ENTRANCE PEAK, STEWART GOLD CAMP
STEWART, BRITISH COLUMBIA
NTS 104 A/4

REPORT ON
VERTICAL FIELD MAGNETICS SURVEY

OCTOBER 2002

GEOFINE EXPLORATION CONSULTANTS LTD.

JVX Ltd.

POLY PROPERTY
ENTRANCE PEAK, STEWART GOLD CAMP
STEWART, BRITISH COLUMBIA
NTS 104 A/4
REPORT ON
VERTICAL FIELD MAGNETICS SURVEY

OCTOBER 2002

GEOFINE EXPLORATION CONSULTANTS LTD.

For: **Geofine Exploration Consultants Ltd.**
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Attention: Mr. David Malloy

By: JVX Ltd.
60 Wilmot Street West, Unit #22
Richmond Hill, Ontario L4B 1M6
Tel: (905) 731-0972
Fax: (905) 731-9312
Contact: Blaine Webster

JVX Ref: 2-48
November 1, 2002

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1. Introduction

Geofine Exploration Consultants Ltd. conducted a vertical field magnetics survey on behalf of Island Arc Exploration Inc., the Optionee of the Poly Property, in August 2002. The property is located in the Entrance Peak area of the Stewart Gold Camp, Stewart, British Columbia, NTS 104 A/4 (see figure 1).

The magnetics survey has been conducted in conjunction with a stream sediment and soil geochemical program. This sampling program and historical ones have outlined one bedrock source of, and several other areas with potential for high-grade polymetallic mineralization.

JVX Ltd. was contracted to plot and prepare a brief interpretation of the magnetics survey results.

2. Personnel

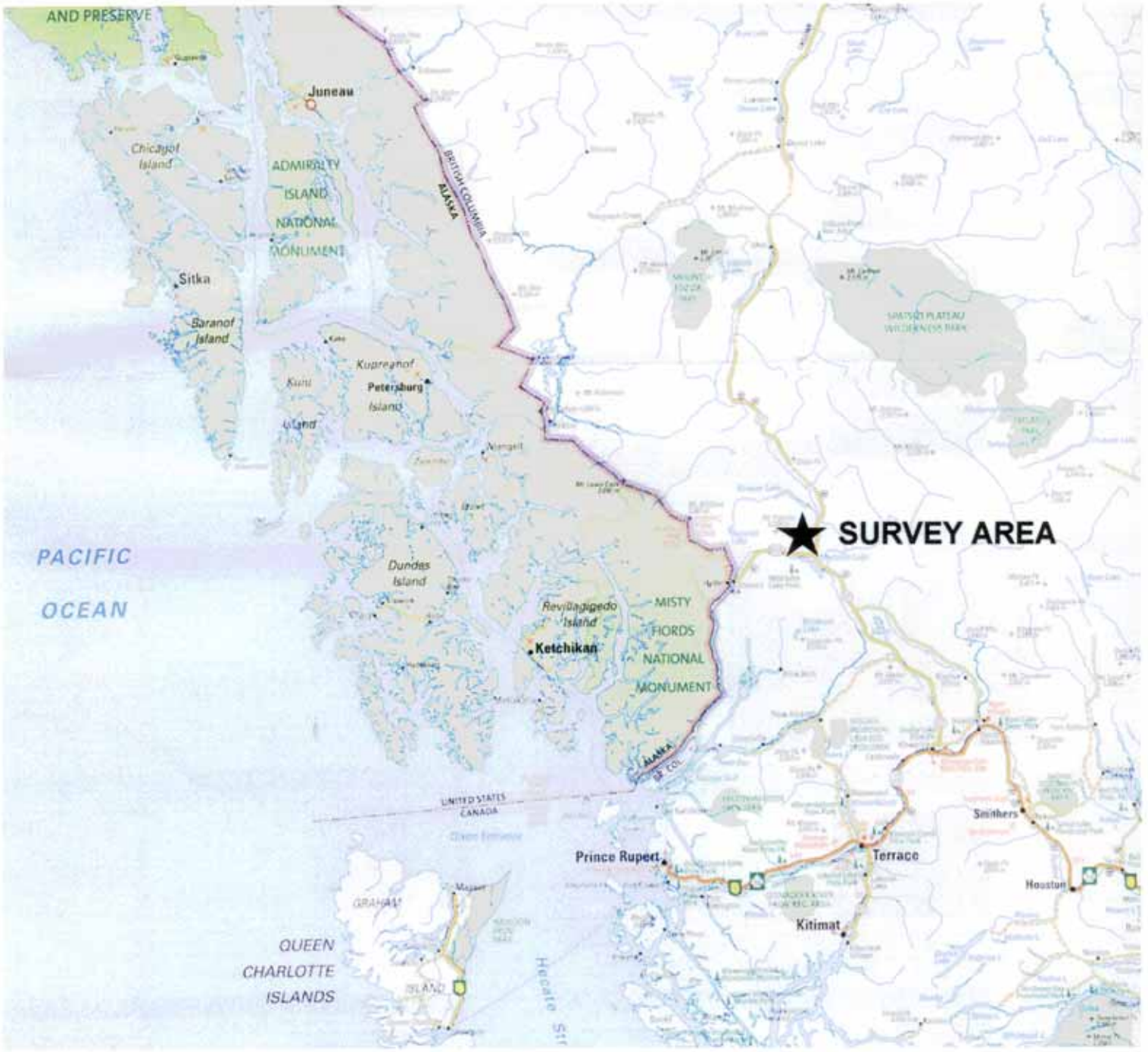
John Gilliatt (Senior Geophysicist):
Mr. Gilliatt plotted the plan maps and prepared this report.

Dagmar Piska (Draftsperson)
Ms. Piska prepared the data file for processing, carried out drafting on the figures/plates and assembled this report.

3. Field Instrumentation

A **Scintrex MF-2-100** portable fluxgate magnetometer was used to measure the vertical magnetic field over the grid. The MF-2-100 is an analogue magnetometer that is self-levelling and measures the vertical component of the earth's magnetic field. The MF-2-100 has large dynamic range and can be operated in areas of steep magnetic gradient. Specification sheets on the system are provided in appendix B.

Magnetics data was collected at 12,5 metre intervals along cut gridlines as well as along both the new and old highway 37A. Diurnal variations in the earth's magnetic field were monitor by reoccupying stations throughout the survey period.



LOCATION MAP

GEOFINE EXPLORATION CONSULTANTS LTD.

POLY PROPERTY

ENTRANCE PEAK, STEWART GOLD CAMP

Stewart, British Columbia

NTS 104 A/4

GROUND GEOPHYSICAL SURVEY

Scale 1 : 3,200,000 (approx.)

Figure 1

4. Data Processing

JVX prepared a digital file (GEOSOFT XYZ format) from the data plotted on a base map provided by Geofine Exploration Consultants Ltd. A production summary is provided in the following table:

MAGNETICS				
Line	**From Station**	**To Station**	**Distance (m)**	**No. of Readings**
5608N	4950E	5000E	50	5
5600N	5000E	5262.5E	262.5	22
5500N	4925E	5212.5E	287.5	24
5400N	4912.5E	5200E	287.5	24
5300N	4887.5E	5200E	312.5	26
5200N	4787.5E	5312.5E	525	43
5100N	4875E	5000E	125	11
Old Hwy. 37A	4650E	5724E	1074	88
Hwy. 37A	4740E	5562E	822	67
BL 5000E	4950E	5608E	658	28
2000 BL	4880N	4942N	62	6
Total			**4466**	**344**

Table 5: Production Summary for the Magnetometer Survey

Plan maps of both the vertical magnetic field and calculated vertical magnetic gradient was produced using **GEOSOFT OASIS** software. Interpreted faults/lineaments were plotted were drawn on the plan maps using **AUTOCAD.**

5. Interpretation

The vertical field and calculated vertical gradient magnetic maps have been plotted as described in the previous section and included in Appendix B of this report. Several faults/lineaments have been interpreted from the calculated vertical gradient data and have been plotted on each of the plan maps.

A strong regional magnetic trend increasing from west to east across the grid is the most dominant feature on the vertical field magnetics plan map. The causative source of this trend is a quartz monzonite pluton located east of the grid. Other features observed include a weak low at the West End of the old highway 37A. This weak low occurs a few ten's of meters south of a section of the highway zone creek coinciding with highly

anomalous polymetallic soil samples. A weak high magnetic zone occurs near the East End of both the old and new highway 37A immediately east of the 2000 Baseline. A possible source of this magnetic high is some minor pyrrhotite mineralization that has been observed in this area associated with an altered crystal tuff breccia float and favourable geochem (Hwy 37A showing). The magnetic high could also be responding to magnetic minerals within a quartz monzonite pluton that is centred east of the survey area. The western limit of the quartz monzonite pluton could occur at approximately 5200E along Old Hwy. 37A. This is where the magnetic gradient steepens to the east indicative of a geological contact. This is also supported by the geology and geochemical surveys suggesting the quartz monzonite pluton contact is located east of East Creek.

A vertical field magnetic gradient map was generated to reduce the effects of the regional bias and assist in interpreting near surface trends that could be associated with the targeted mineralization. Numerous north-south high magnetic trends have been observed in the map with the strong west to east gradient removed. In addition, low magnetic trends have been interpreted as possible faults (F-1 to F-3). Faults F1 and F3 exhibit a moderate to flanking correlation with the Highway Zone and East creeks respectively. Highly anomalous geochem sediment and soil samples have been collected from various locations in and in proximity to these creeks, particularly Highway Zone Creek. Northwest-southeast structures (F-4 and F-5) appear to disrupt the north-south trending magnetic highs.

6. Summary and Recommendations

Approximately 4.7 km of magnetics data was collected on the Poly property. Once the magnetic survey results were processed to remove the regional trend, several magnetic features were identified. Disruptions in magnetic high trends as well as magnetic lows exhibiting line-to-line correlation have been interpreted as fault zones. Some of the fault zones appear to be related to creeks on the property. These creeks are host to favourable geochemical results and should be considered prime targets for follow-up work that should include spectral induced polarization/resistivity surveys. These surveys will define both sulphides (high chargeability values) and alteration/silicification (high resistivity values) and assist in prioritizing for drilling. Existing survey lines should be extended west across the Highway Zone Creek. Fill in lines at 50 metre intervals from highway 37A to line 5400N are also warranted to better define the chargeability/resistivity zones. Additional magnetic surveys should be completed to the east along the highway to help in defining the quartz monzonite pluton contact.

Please call the undersigned if there any questions with respect to this report.

Respectfully submitted,

John Gilliatt

John Gilliatt, B. Sc.
Senior Geophysicist

APPENDIX A

SCINTREX MF-2-100 Portable Fluxgate Magnetometer

Function

The MF-2-100 is the latest in a successful line of portable analogue reading fluxgate magnetometers by Scintrex.

Hand-held measurements can be made with an accuracy of a few gammas while precision of one gamma is possible using a portable, lightweight tripod.

The internal sensor provides vertical component measurements for normal field surveys while a remote sensor is available as an accessory for horizontal or other component measurements, or for study of the magnetic properties of rocks.

Features

Compact, internal sensor package permits rapid field surveys

Rugged and lightweight for portable field use

Self leveling and orientation insensitive sensor measures vertical component of magnetic field

High sensitivity in all field strengths

Low power requirements permit long life of standard dry cell or optional rechargeable batteries

Will measure accurately anywhere, even in the presence of steep magnetic gradients

Direct analogue readout can be recorded on any analogue recorder for base station use

Can be used for measurements of magnetic susceptibility and remanance by bringing samples near to sensor

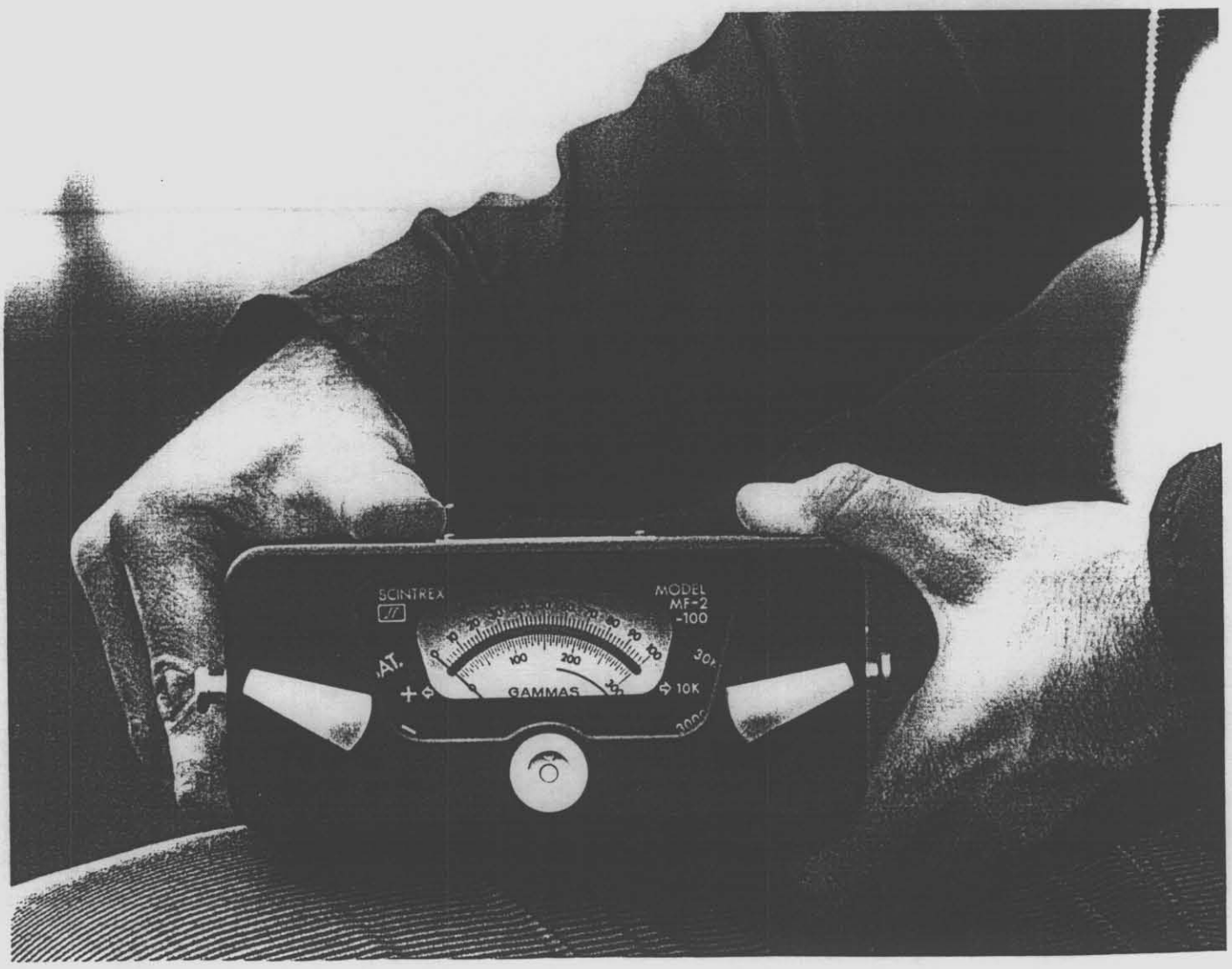
State-of-the-art solid state circuitry ensures very low temperature drift

Easily operated in low magnetic fields such as near the equator

Rugged, all metal case for long life

Over 200,000 gamma range

Proven high standard of reliability



Technical Description of the MF-2-100 Portable Fluxgate Magnetometer

Meter Ranges	From 100 gammas to 100,000 gammas full scale in seven switch selectable steps, reversible in polarity
Measuring Range	−100,000 +100,000 gammas relative to a given zero field level
Latitude Bucking (zero gamma level adjustment)	Range is 100,000 gammas in 9 steps of 10,000 gammas plus fine control of 0 to 10,000 gammas by ten turn potentiometer Northern Hemisphere −20,000 to +80,000 gammas absolute Southern Hemisphere −20,000 to +80,000 gammas absolute
Operating Temperature Range	−40° to +50°C
Resolution	±0.5% of full scale on all meter ranges
Perming	Less than 1 gamma/oersted
Meter	Taut band suspension 100 scale is 53 mm long with 50 divisions 300 scale is 48 mm long with 60 divisions
Noise Level	Less than 1 gamma peak to peak from DC to 3 Hz
Temperature Coefficient	Less than 1 gamma/°C
Electrical Response	3 db down from DC to 3 Hz on most sensitive range
Recording Output	For high impedance recorder. 100 mV for full scale meter deflection.
Batteries	Standard: Remote battery pack containing 16 "C" cells and with a 1 meter cable, designed to be carried on a belt Optional: Internal rechargeable batteries. Three 6 volt, lamp-hour Centralab GC 6101 sealed lead acid cells. 8 hour recharge time
Battery Test	Readable on meter
Battery Charger	110V to 220V AC, 50/60 Hz or 24 to 28V DC supply. Automatic charge rate and cutoff preset for Centralab GC 6101 batteries
Power Consumption	60 milliamperes. GC 6101 batteries rated for 16 hours continuous use. 30 hours of operation with Leclanche type C cells
Tripod	Aluminum. Single shaft with 3 collapsible legs and swivel head which screws easily into base of magnetometer
Optional Remote Sensor	Sensor assembly is installed in a small tube on an 8 meter cable. Internal sensor is automatically eliminated when remote sensor is connected to console
Weights & Dimensions	Standard console 1.7 kg 160 x 70 x 255 mm Standard battery pack 1.2 kg 38 x 140 x 259 mm Console with rechargeable batteries 2.5 kg 160 x 70 x 255 mm Battery charger 1.1 kg 155 x 65 x 65 mm Tripod 1.9 kg, approx. 1 m high
Standard Accessories	Battery pack and cable, batteries, carrying case, carrying strap, manual
Shipping Weight	Approximately 9.5 kg

SCINTREX

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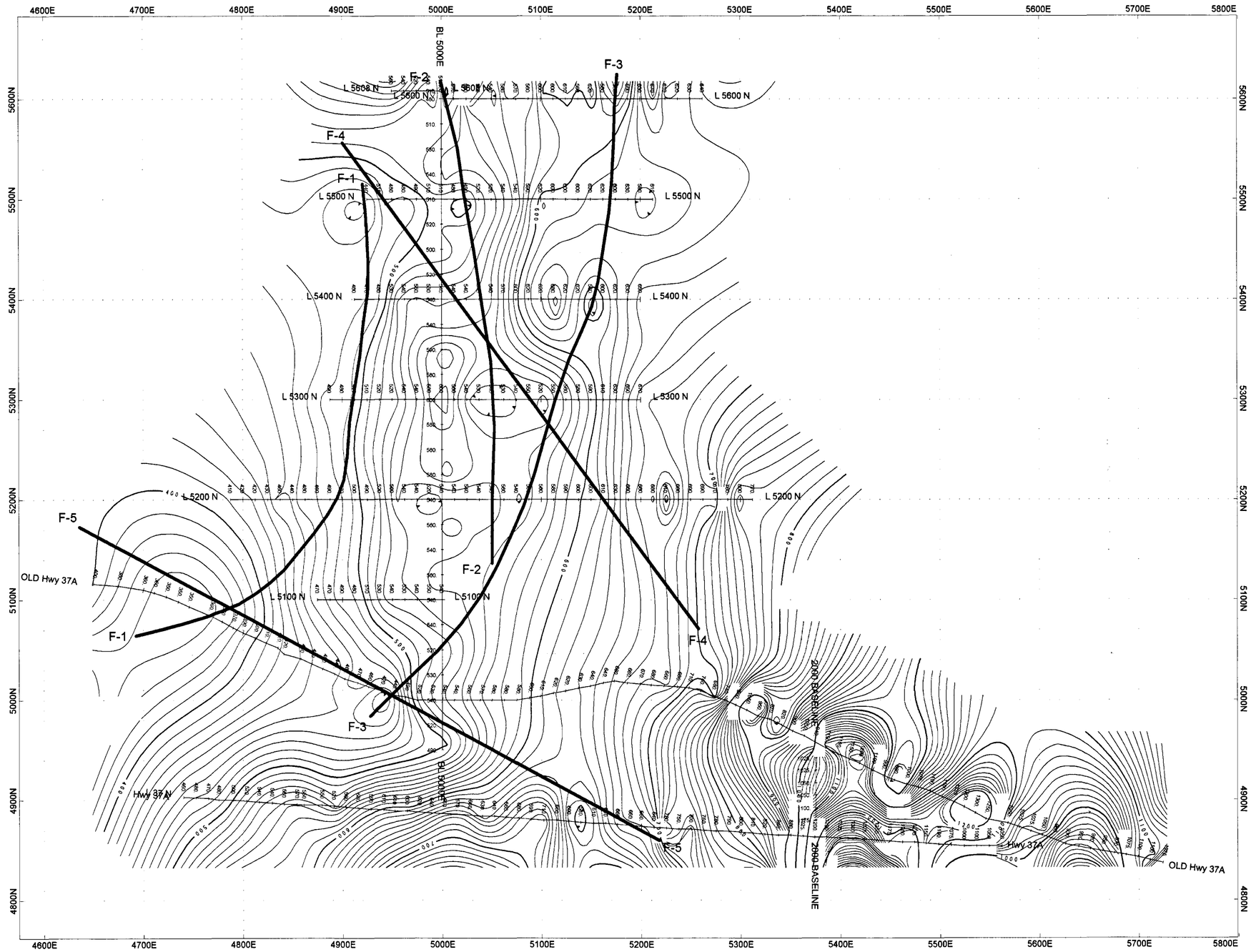
Telex: 06-964570

Geophysical and Geochemical
Instrumentation and Services

APPENDIX B



LEGEND

Fault / Lineament

Scale 1:2500

50 0 50 100 150 (meters)

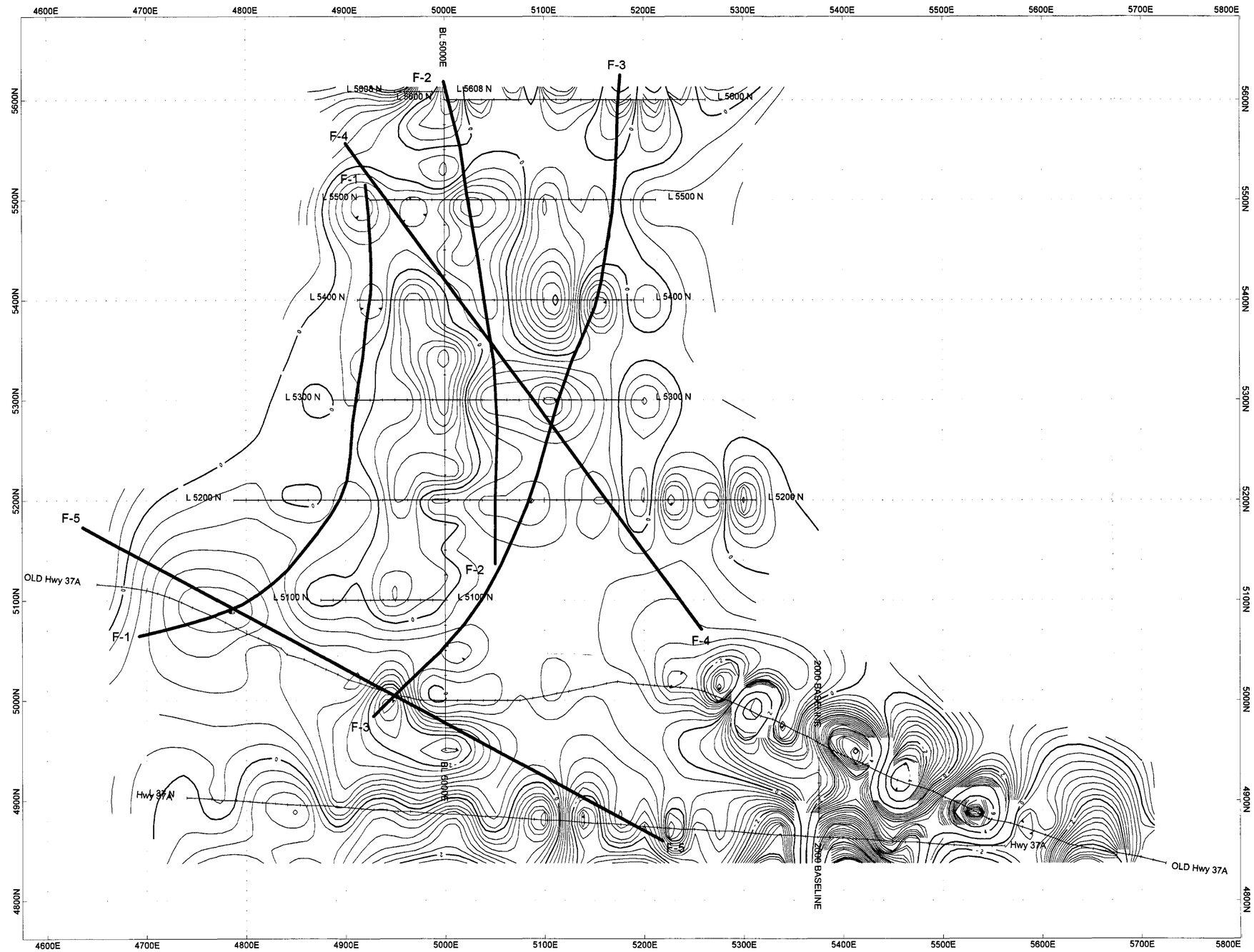
27028 1 of 2 (1) PLATE 1

GEOFINE EXPLORATION CONSULTANTS LTD.

POLY PROPERTY
Entrance Peak, Stewart Gold Camp
Stewart, British Columbia NTS 104 A/4

VERTICAL FIELD MAGNETIC CONTOURS
Contour Interval: 10, 100 & 500 nT
Inst: Scintrex MF-2-100
Surveyed by Geofine Exploration Consultants Ltd.

JVX Ltd., ref 2-48, OCTOBER 2002



LEGEND

Fault / Lineament

Scale 1:2500

50 0 50 100 150
(meters)

27028 2 of 2

PLATE 2

GEOFINE EXPLORATION CONSULTANTS LTD.

POLY PROPERTY
Entrance Peak, Stewart Gold Camp
Stewart, British Columbia NTS 104 A/4

CALCULATED VERTICAL MAGNETIC GRADIENT CONTOURS
Contour Interval: 0.25, 2 & 10 nt/m
Inst: Scintrex MF-2-100
Surveyed by Geofine Exploration Consultants Ltd.

JVX Ltd., ref 2-48, OCTOBER 2002