4173813



# Silver Mountain Property
## Assessment work
## Report 2007

**Soil sampling and prospecting**
**On Claims 504624**
**521570**

**Map 092H065**

**UTM 5506000N**
**642500E**

**Owner: Bryan Livgard**



**Egil Livgard P.Eng.**
**Coquitlam B.C.**
**April 29th 2008**

# INDEX

## Summary and conclusions

The property covers a part of the Keystone quartz diorite which has intruded the Eagle batholith and has itself been intruded by bodies and dykes of quartz rhyolite which caused extensive brecciation. The property consists of four claims covering 773.286 hectares located west of Highway 5 about 5-6 kilometers north of Coquihalla Lakes. The showings have received considerable exploration by a number of companies since their discovery in early 1900s. Most of the property has been soil surveyed and large, very high zinc – lead anomalies (+100 ppm lead and +700 ppm zinc) was outlined mainly around the Keystone Mine and the Stonewall adit. Other showings (Julie – What) on the property were also soil surveyed. Induced Polarization surveys outlined anomalous conditions at the Julie showing, the Keystone Mine and extending further northeast. The Keystone Mine was developed on two levels and about 200 meters of drifting on the vein exposed narrow veins with occasional high zinc and silver-gold values. Diamond drilling northeast of the mine intersected high gold and silver in one hole but not in others. Highly anomalous gold values in the soil have been located in this area. The Julie showing was also drilled and intersected extensive zinc mineralization and occasionally gold and silver values. Most of the diamond drilling on the property was located in the central brecciated area exploring for molybdenite. One drill hole north of the breccia intersected low molybdenum values over 300 meters. The What showing, on the north end of the property has geology favorable for molybdenum deposition. Soil surveying outlined copper-moly anomalies and prospecting located molybdenite showings. Another showing further north, the Blue Gold also called the Red Bog showing has, it is reported, the best molybdenite showings in the area. This northern area at and north of the breccia zone is underexplored and warrants further work
The Julie showing with zinc, indium, gold and silver in a quartz rhyolite breccia is also under explored. It is potentially a large low grade deposit and it warrants an extensive exploration program.

## Recommendations

The molybdenum area should be mapped in detail and surveyed by geophysics followed by diamond drilling.
The Julie showing should be geologically mapped and surveyed by dense Induced Polarization followed by diamond drilling.
The area northeast of the Keystone where drill intersection with good gold values and anomalous gold in the soil has been located should be trenched, mapped and sampled.

## Estimated costs of the recommendations

| | |
|---|---|
| Mapping: geologist and helper all incl. $930/day – 30 days | $ 27,900 |
| Grid systems: 30 kilometers @ $500 | $ 15,000 |
| Geophysics: 30 km @ $3500 | $105,000 |
| Consulting and reports | $ 10,000 |
| Contingency | $ 16,100 |
| TOTAL | $174,000 |

Diamond drilling: To be assessed and determined based on the results of the above exploration.

# Introduction

The writer was asked by the owner to plan a detailed soil survey in the area northeast of the under ground Keystone workings where old surveys had located high gold values in the soil. The soil program and an examination of the possible extension of the Julie showing to the north side of Min e Creek were carried out over 5 days in July 2-6 by the owner and an assistant. The writer laid out the soil work and the explored on the north side of Mine Creek across from the July showing of mineralized breccias in order to determine if the breccias crossed the Creek.
This report is based on the above examination and soil sampling as well as on the references as listed.

# Property

The property consists of four contiguous claims with tenure numbers
504624 good to Oct.27th 2008
521570 " "
534136 " "
560901 " June 20th 2009
The property covers 773.286 hectares. The property is in the name of Bryan Livgard

# Location and access

The claims can be found on map sheet 092H 065 and 075 immediately west of Highway #5 about 5 to 6 kilometers north of the Coquihalla Lakes. Old mine roads and new logging roads give access to most of the claim ground.

# Physiograph and climate

The property lies within the physiographic boundary of the Cascade Mountains. The claims cover mostly east facing steep hillsides of two hills bisected by Mine Creek (also named Dry Creek), a tributary to the north flowing Coldwater river. Elevations vary from 1100 meters at the flats

alongside Highway5 to over 1500 meters above sea level in two peaks (asl). The climate is intermediate between the very moist coast climate and the dry interior and receives high to moderate precipitation mainly as snow. The snow will often be wet and heavy. The ground will be snow covered for 6-7 months of the year.

## History

Mineralization was discovered in the area in the early 1900's and underground development consisting of adits, crosscuts and drifting on a vein had taken place by 1936. It was named **Keystone Mine**. No further work has been reported until 1954 when further development and mining was done. The only production was recorded in 1955 when 89 tonnes containing silver- lead –zinc were shipped to smelter. The **Stonewall vein** lies about 1.0 kilometers south-southwest of the Keystone and may be a continuation of this vein. The Stonewall is also a narrow lead, zinc, silver vein. A drift of unknown length was driven on the vein. Records of sampling are found in Minister of Mines Reports from 1939 to 1954.

The **Julie showing** lies a short distance east of the Stonewall adit on the south side of Dry Creek. IT was discovered in 1965 and in1966 Dorian Mines carried out extensive surface work and drilled 32 pack sack and Ax core drilling totaling 2,030 meters. The results of this work were not filed as assessment work and have been located only in part. The larger part of this drilling was apparently done on the Julie showing.

The **What Showing** lies about 900 meters northwest of the Keystone Mine. El Paso Mining and Milling Company trenched, mapped, soil sampled and rock chip sampled the showing in 1973 - 1974. About 750 meters further north is found the **Blue Gold showing** also called the **Red Bog** molybdenum showings. El Paso carried out geological mapping on this showing. Noranda trenched and diamond drilled the **Mag** showings which lie about 900 meters southeast of the Julie showings. The writer has no knowledge about the results of this work except for several marks of Pb noted in outlines of trenches.

Anaconda American Brass Ltd. carried out soil surveying in 1965. This is the first recorded Assessment work report.

Corval Resources Ltd. carried out a soil survey in 1971 and commissioned a report from the writer and explored the property in 1972 to 1974 by geological mapping, soil surveying and Induced Polarization surveying.

Denison mines carried out geophysical surveying and diamond drilling in 1974.Western mines Ltd. (Westmin Resources Ltd.) in a joint venture with

Amax mapped the geology, carried out geophysical and geochemical surveying and diamond drilled a total of almost 5000 meters in deep holes in the period 1979 to 1982 mainly focused on molybdenite but minor soil surveying and drilling was also done on the Keystone Mine and Julie showing.

Blue Gold Resources Ltd. covered the **Keystone mine** and surrounding area in a large soil survey north of Dry Creek and did some diamond drilling on the **Julie showings** south of the creek in 1989 – 1990.

A rock chip sampling program was carried out in 2005 by the present owner. The program gave good values in zinc. A silt survey carried out by the present owner north and west of the Keystone adit in 2006 outlined an anomalous area in copper and molybdenite.

## Geology

A large Lower Jurassic to Middle Cretaceous granite-tonalite-granodiorite intrusion named the Eagle batholith occupies the west side of Highway #5. On the east it is in contact with andesitic volcanics of the Nicola Group. Intruded into the granodiorite is an early Tertiary stock named the Keystone quartz-diorite. The stock at surface is an ellipsoid about 4000 meters long and 1500 meters wide. The long dimension strikes about 330 deg. The central part of stock has been intruded by a breccia complex which also affects the Eagle granodiorite at the contacts. It is about 2100 meters by 1300 meters in size. The brecciation may have been caused by violent intrusions of rhyolite porphyry, as small stocks and felcitic dykes probably of Miocene age. The rhyolite porphyry was accompanied by pervasive alteration of the brecciated rocks and by metallic mineralization.

### Rock types

**The Eagle Batholith** consists of foliated biotite rich granodiorite of Late Jurassic age.

**The Keystone quartz diorite** is coarse grained equigranular rock with a "salt – pepper" appearance.

**Dykes**: account for 5% or less of the rock mass; andesites are green, massive and often porphyritic. Felsite dykes are white-grey microcrystalline siliceous rocks which occur around the Julie showings and the Stonewall adit. Aplites and pegmatites are common in the breccia.

**The breccia complex**: The breccia body is a steep pipe like body occupying a large part of the quartz diorite and apart of the adjoining granodiorite. It consists of a homogenous outer zone of boulder like fragments and a heterogenous inner zone of sand to pebble sized fragments. The complex is cut by veins and breccia fill of zinc with pyrite and manganese fractures. At least three phases of brecciation are recognized: **Eagle breccia** (outer zone – irregularly 250 meters wide) of angular granodiorite in green sericite matrix. It is essentially a crackle breccia: **Pebble breccia** (inner zone) with sub-rounded fragments of quartz diorite, granodiorite and dyke fragments. A significant fraction of silicified fragments contain pyrite and molybdenite. Fragments are supported in a white, porous sericite-carbonate -clay matrix with veins containing zinc: **Quartz breccia** (pre-pebble breccia) with quartz diorite and grey quartz fragments in a grey silica matrix are found on the periphery of the main breccia body. At the Julie showing this breccia carries significant zinc mineralization.

## Mineralization

Mineralization on the property consists of two distinct suites. At the Keystone Mine – Stonewall showings it consists of Quartz, rhodocrosite, sphalerite, hematite, galena, minor chalcopyrite and magnetite in veins and lenses. Silver and gold values are associated with these minerals At the Julie showing the mineralization occurs as breccia in fill with quartz-carbonate stringers and veinlets and as veins in shears.

Disseminations, quarts stringers and stock work with molybdenite and minor pyrite - chalcopyrite showings occur generally at the north end of the breccia complex in the Keystone quartz diorite and further north in the Eagle granodiorite. It also occurs in silicified fragments in the breccia but the mineral suites occur essentially in separate areas.

## Molybdenum occurrences

Rounded to sub-angular fragments of silicified rock in the Eagle breccia contain molybdenite. These fragments were brought up from a deeper source. It would be interesting to sample these fragments and get some indication about the grade of the source. Considerable drilling, mainly on the flat between the highway and the hills, has been unsuccessful in locating the source. "Induced Polarization Surveys give annular response peripheral to the breccia complex. An envelope of propylitic alteration and copper-moly mineralization flanks the northwest end of the of the Keystone stock."

Further drilling on the periphery on a ridge north of the breccia complex was carried out.

A drill hole ,#W-79-1,( ref ASR #7771) intersected a rhyolitic zone with quartz - pyrite – sericite – K-feldspar stock work north of the breccia grading 0.044 % Mo over 300 meters at 1000 meter depth. It stated that the grade increased to the bottom (at 1300m) of the hole. It also was stated that 'the potential exists for similar mineralization to occur much closer to surface'(ref ASR8863). This may be the source of the mineralized breccia fragments. Two holes, W- 80 -1, W- 80 -20, drilled 200 meters then 120 meters west of the first hole failed to intersect the moly mineralization, but both holes were terminated before they reached their recommended depth. Further drilling to the east and north was recommended but has not been done.

A group of old claims laying about 500 meters to 1500 meters west of the **Keystone** mine adit and extending 1500 meters north covered the **What** showing and the northwest corner reached the **Red Bog** or **Blue Gold** showing both now on tenures 521570 and 534136. Trenching in this area has exposed granodiorite hosting numerous quartz veins and pyritic aplite dykes. A soil survey (Ref.ASR # 4657 1973) outlined a copper-moly anomaly extending over an area of about 200meters by 650 meters with molybdenum values between 20 ppm and over60 ppm and copper values from 100 ppm to over 1000 ppm. The anomaly and these showings have not been drilled. At the **Blue Gold or Red bog showing** several narrow quartz pyrite veins host chalcopyrite and molybdenite. The best molybdenum exposure on the property is found here along the (west ?) bank of the north flowing Blue Gold Creek, but the mineralization is completely leached to a depth of 15 to 30 cm (Ref. ASR #6758). **Stream silt sampling in 2006** outlined copper and moly anomalous values in the area of the 1973 soil survey. No diamond drilling or other exploration has followed up on the anomalous soil and silt surveys and the molybdenum showings.

## The Keystone Shear Zone

Zinc, lead and copper mineralization carrying silver and gold values lie in a north-northeast striking steeply westerly (changing to easterly at depth) dipping vein in a shear zone. The shear zone extends from south of Dry Creek through the Stonewall and the Keystone and further north, a distance of at least 3.0 kilometers. It is about 100 or more meters wide. It is

expressed on surface by conspicuous rock alteration and strong black manganese staining.
Three veins are recognized within the shear.
**The Keystone Mine** workings consist of two adits with crosscuts 65 meters and 15 meters, a raise to surface and 100 meters of drifting on the vein to the southwest and 90 meters to the northeast. The vein strikes 30 deg and dips steeply west except on the lower level south end the vein split and branches and the dip changes to 60 deg east. It consists of quartz, calcite, rhodochrosite and pyrite, sphalerite, galena and minor freibergite. The vein is narrow widths of about 0.3 meters. Silver values range from 30 grams (g) to 700 g per tonne. Gold values are infrequent but values are occasionally high over narrow widths. Two very narrow (unknown width) parallel veins were located in a crosscuts on the upper level. A sample from one of these veins gave 29.5 g gold and 576 g silver perhaps (?) in a selected sample. Sampling in 1973 (ASR 4174) are considered reliable (geologist –sampler – G. Gutrath) gave results as follows:

| Sample # | Width | Cu % | Pb % | Zn % | Ag oz. | Au oz. | Description |
|---|---|---|---|---|---|---|---|
| 2582 | 35 ft | 0.01 | 0.09 | 0.20 | 1.37 | 0.005 | Massive pyrite H/W |
| 2583 | 10 ft | 0.05 | 0.41 | 1.15 | 3.86 | 0.003 | Main vein Center |
| 2584 | 3 ft | 0.15 | 0.96 | 10.0 | 6.92 | 0.18 | Main vein at Raise |
| 2585 | 2 ft | 0.23 | 0.89 | 15.4 | 3.57 | 0.016 | Main vein south |

At to day's metal prices some of these grades reach economic type values over under ground mining widths.

**The Stonewall adit** lies about 1.0 kilometer southwesterly from the Keystone Mine. The vein in the adit is reported to be narrow, striking 30 deg and dipping steeply. A report (Ref. K.C. Fahrni -1954) describes the vein as being 5 feet wide and containing disseminated lead and zinc sulphides. The vein has been sampled several times (MMR 1939,1946,1948,1953,1954). Other parallel veins have also been noted. The writer did not locate the adit. Soil surveys have outlined large lead and zinc anomalies around the Keystone adits. The anomalies (+1000ppm Zn and +100 ppm Pb) extend about 200 meters southwest of the adits and at least 450 meters to the northeast. The gold and silver values were much more erratic. High gold values were located 200 to 300 meters northeast of the adits.

**The Gold zone** This zone was first located by diamond drilling about 160 meters northeast of the Keystone adit. A drill hole (80-w-1 – drilled vertically – objective molybdenite) intersected 21.7 g gold and 38 g silver per tonne over 3.05 meters at a depth of 95 meters. Another intersection in

the same hole 20 meters higher cut little gold but 2080 g silver over 0.2 meters. True widths are unknown. An angle drill hole on the same section (DH81-K2) intersected sulphide mineralized quartz-carbonate vein material in the vicinity of the earlier intersections but the precious metal content was low.

Two diamond drill holes -81K 1, 81K 3, were drilled in 1981 to test the vein north of the Keystone workings at greater depth. A vein was intersected cutting widths of 0.9 and 1.1 meters containing low precious metal values.

Induced Polarization surveying (1973) located a strong "apparent chargeability" anomaly northeast of the Keystone adit extending over widths from 100 to 300 meter and a length of 750 meters.

Soil surveying in the past located irregular but many high gold values east of the Keystone.

**A soil survey was carried out in 2007** and was designed to relocate the area of high gold values. The results were promising as high coincident gold and lead values were located over four lines 50 meters apart extending from the east end of the Keystone under ground workings and about 150 to 200 meters further east. The survey is located down hill from the probable eastern extension of the vein in the Keystone under ground workings and down hill from diamond drill hole W80 – 1. The zinc values are consistently high for 250 meters then 'tail off over the next 100 meters. The survey did not locate high values in lead and zinc at the creek about 650 meters northeast of the Keystone adit where stream silt samples (2006)were high. Three old trenches (year?) were excavated over 100 meters down hill from the projected location of the Keystone vein and apparently did not expose mineralization.

## The Julie Zone

The Julie zone lies mainly south of Dry Creek (Mine Creek) The zone is a milled quartz-rhyolite breccia with sub-angular to sub-rounded sericitized - silicified fragments of quartz diorite, quartz, aplite and dacite a few centimeters in size, set in a grey silica pyrite matrix. Quartz veining occurred after brecciation.

The showing was located in 1965 by Dorian Mines Ltd. This company located a zinc soil anomaly 180 meters by 300 meters that was subsequently trenched and 32 packsack and AQ sized diamond drill holes totaling 2018 meters were drilled.

Surface exposures of the quartz-rhyolite breccia zone is at least 140 meters in length and about 80 meters in width and air photos suggest it may almost

circular and measure as much as 320 to 400 meters across or an area of roughly 10 hectares. **Geophysics:** Induced polarization (1973) indicated a north – south trending conductive zone through the breccia and continuing about 150 meters on the north side of the creek. This local trend is within a stronger larger conductive zone striking southeasterly. The survey interpretation considered this an area of possible economic significance. The possible northern extension has not been exposed or explored.

Dorian Mine Ltd. diamond drilled on and in the vicinity of the Julie showing in 1966. The results were reported on by B.C. MacDonald P.Eng. The report is only known to the writer second hand and the available information is lacking in many important aspects. Thirty two holes were drilled but their locations and attitudes are unknown. Below are the results from the ten best holes:

| D.D Hole | Width of intercept (m) | % Zn | %Copper | Oz. Silver |
|---|---|---|---|---|
| Hole # 1 | 30.0 | 1.13 | NA | 0.19 |
| # 2 | 3.4 | 4.00 | 0.1 | 0.58 |
| # 4 | 13.0 | 5.24 | 0.13 | 0.59 |
| # 5 | 26.0 | 0.95 | 0.12 | 0.30 |
| # 7 | 15.5 | 4.15 | 0.13 | 0.18 |
| # 9 | 35.0 | 1.10 | 0.07 | 0.23 |
| # 13 | 31.0 | 1.09 | 0.10 | 0.82 |
| # 14 | 38.0 | 0.89 | 0.10 | 0.40 |
| # 25 | 11.0 | 2.26 | 0.10 | 0.21 |
| # 28 | 9.0 | 3.95 | 0.19 | 0.23 |
| Average | 21 m | 1.74 | 0.12 | 0.37 |

At to days prices of zinc, copper and silver ($1.10/lb, $ 3.50/lb, $16.00/oz) the gross metal value is over $ 50.00 per tonne.

The above intercepts are relatively close to surface. Other holes gave good values at depth. It is not known if these holes were designed to intersect the mineral zone at depth. Two sections apparently located about 100 meters south of the creek are reported to have given:

Section #6 showed mineralization over a width of 91 meters – the best central 46 meters gave $ 5.25 in gross metal value – Section #7 showed mineralization over a width of 76 meters which gave $ 5.00 in metal values. In to days prices the quoted metal values would be very approximately 10 times higher or $ 50.00 per tonne.

Other diamond drilling: One hole (81-J1) in 1981 intersected 6.1 meters grading 0.24 oz (about 7.7g) gold near surface (5-10 m). It was reported to be in a zone of numerous narrow specularite-rhodochrosite-quartz veinlets in altered brecciated granodiorite. It appears that the gold zone lies close to the rhyolite breccia – granodiorite breccia contact. Another hole 89-J1 was drilled directly for the 1981 intercept but considerably deeper (40 -50 m). It failed to intersect significant values as did hole 89-J2. Hole 89-J3 intersected 3 meters grading 9.14 oz silver and very low gold.
Rock chip sampling in 2006 were taken at exposures in 20 cm snow and thus not with systematic spacing, nor of arbitrary location.
The results were as expected high in zinc, confirming the predominantly zinc occurrence in the Julie sowing. Four samples exceeding maximum detection limit (10000 ppm) and were re-assayed for zinc and assayed for indium. The zinc carries about 1.0 g indium per percent zinc.

To the north on the banks of Dry Creek, fine grained, crystalline pyrite with minor sphalerite, chalcopyrite, specularite, tetrahedrite and galena is disseminated in altered intrusive breccias (ref. ASR 7135). **Prospecting in 2007** attempted to relocate this mineralization and located an outcrop that gave 399 and 237 ppm zinc, 55 and 33 ppm lead and high manganese with 2875 and 2550 ppm.

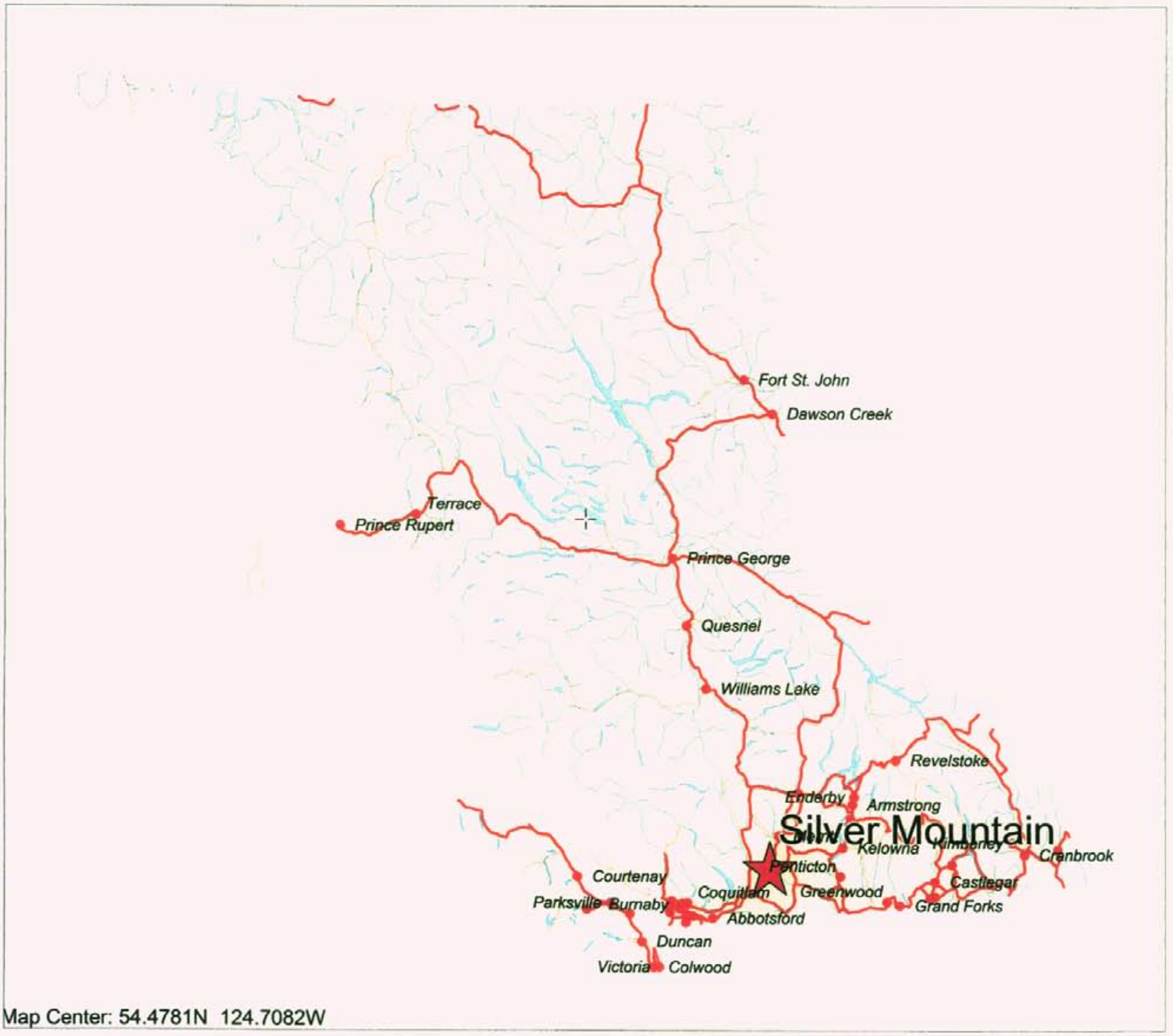
It is clear that the mineralization in the Julie Breccia is very irregular, but the potential size of the breccia and the significant zinc values, which in the past have been of no interest, and the scattered high gold and silver values makes this an excellent and underexplored target to day.

## Cost declaration

Exploration on July 2 to 6 2007:
Explore for Julie showing extension to the north side of Mine Creek
Establish grid and soil survey northeast of the Keystone workings to establish an accurate location of the soils anomalous in gold.

| | |
|---|---|
| Geologist: exploration and lay-out of soil grid | |
| One day @$480 | $ 480 |
| Geo technician and helper $250 +$150 -5 days | $ 2000 |
| Vehicle – gas $ 80/day - 5 days | $ 400 |
| Accom. and meals $200/day – 5 days | $ 1000 |
| | ---------- |

# Silver Mountain Property - Location

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KILOMETERS

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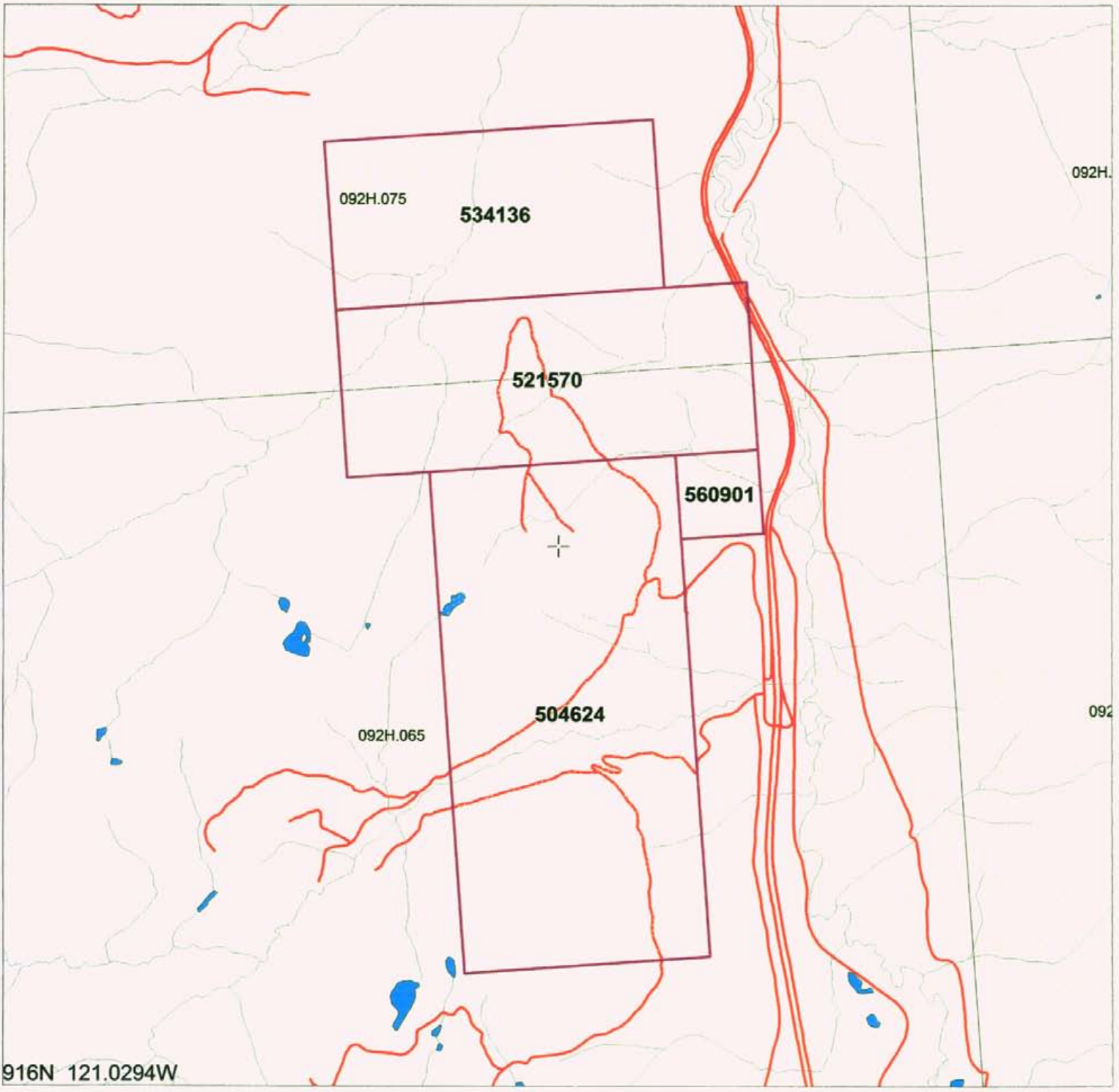
# Silver Mountain Property - Location

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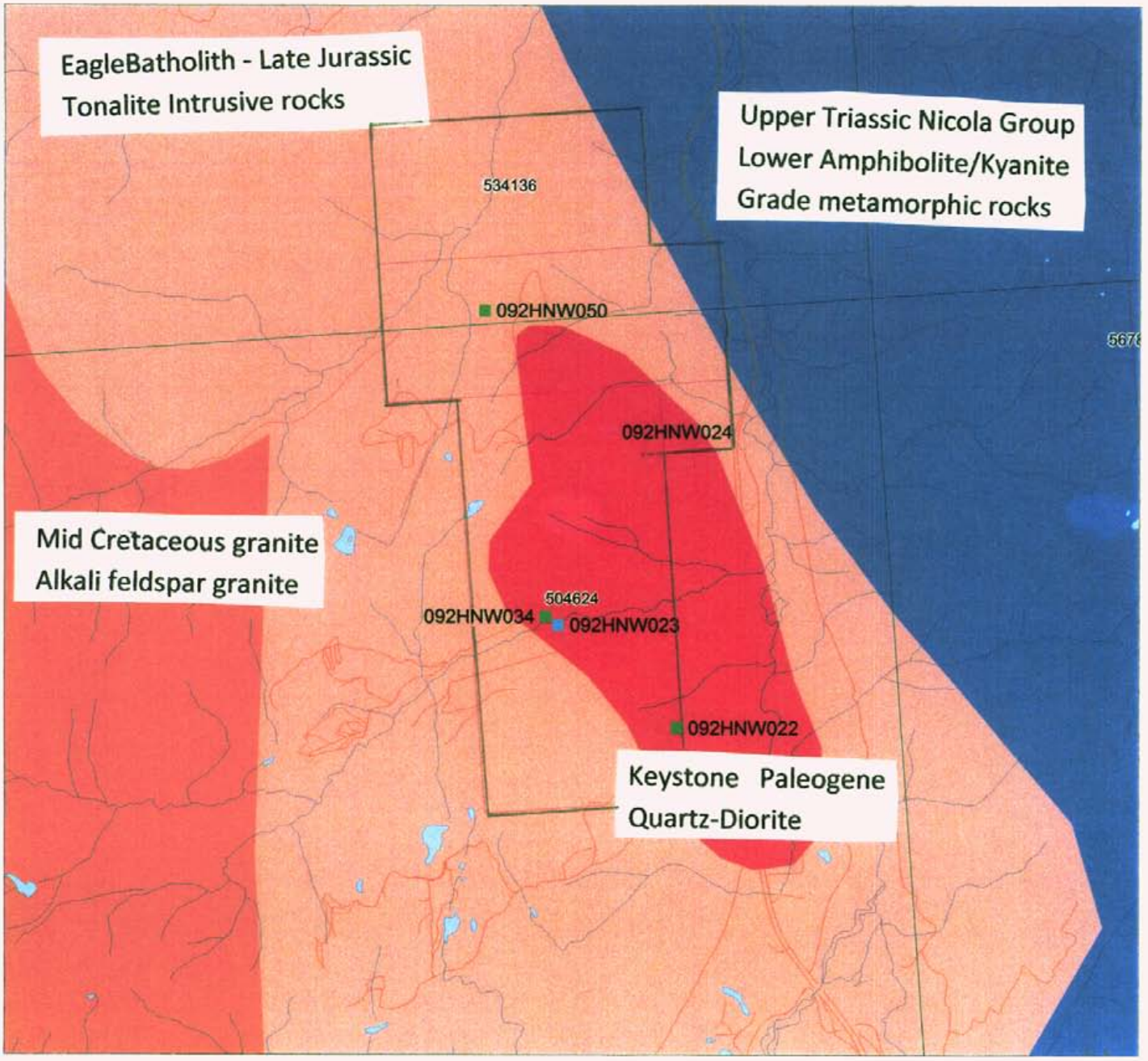
# Silver Mountain - Geology

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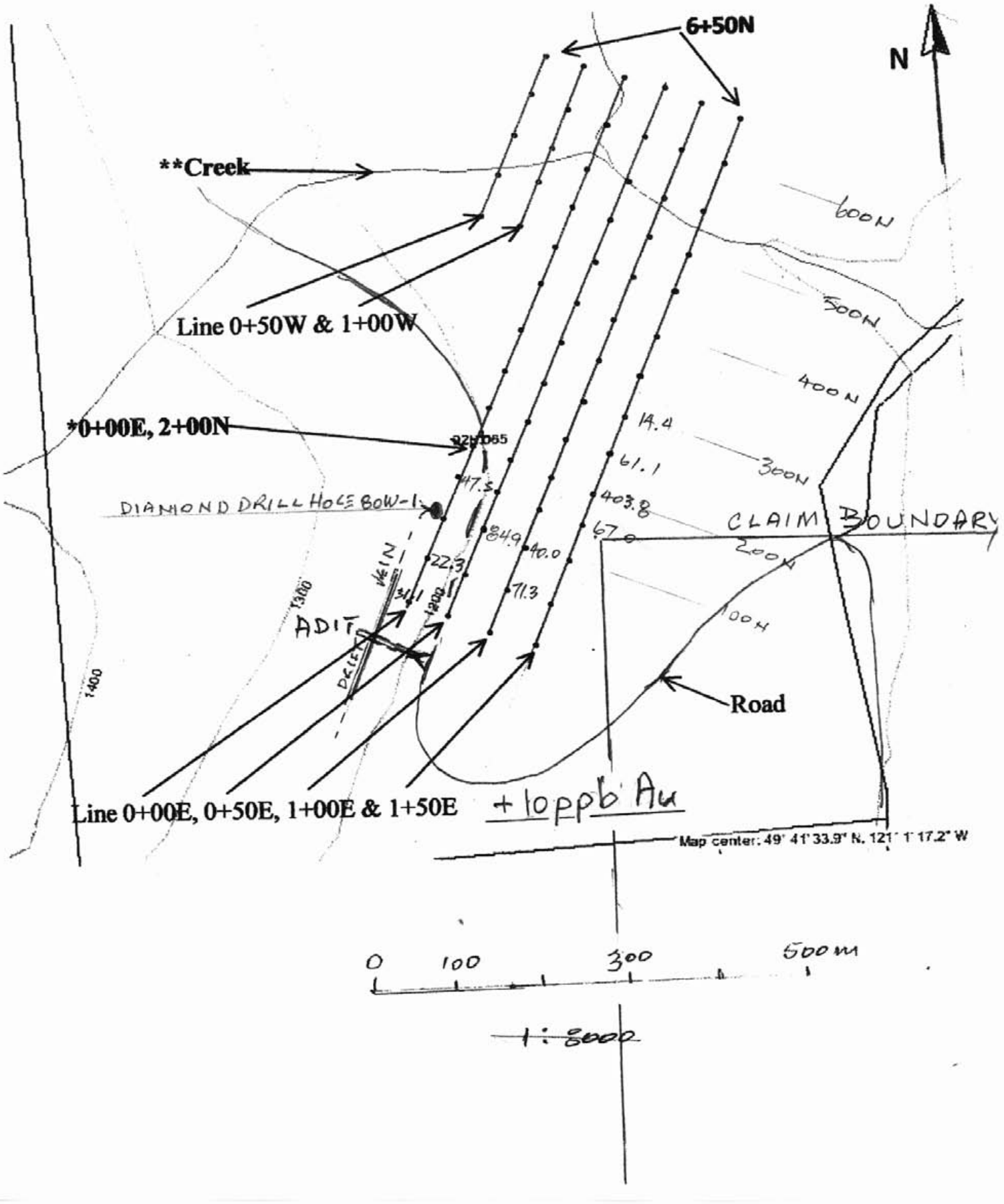
# SILVER MOUNTAIN Soil Survey - 2007



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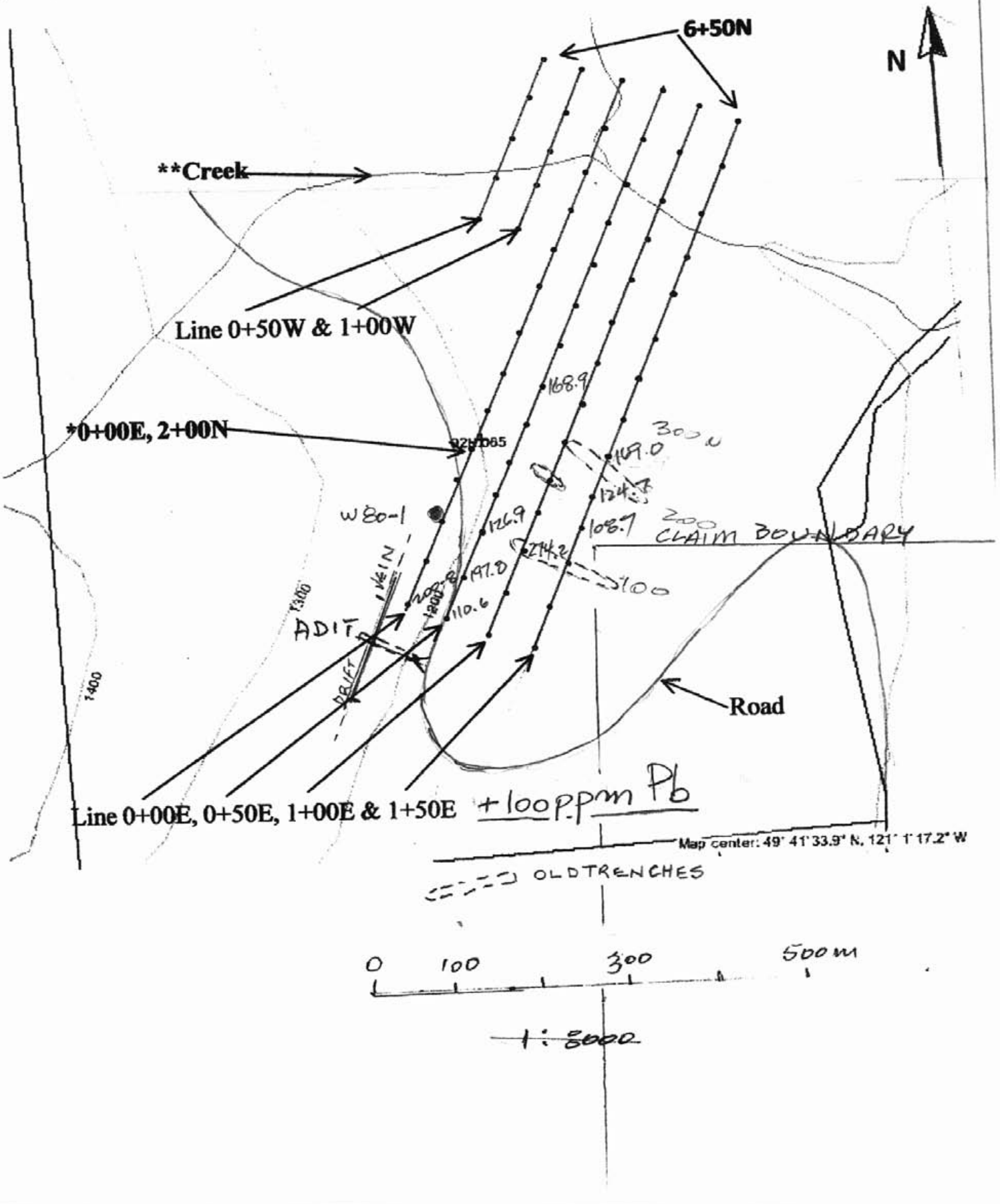

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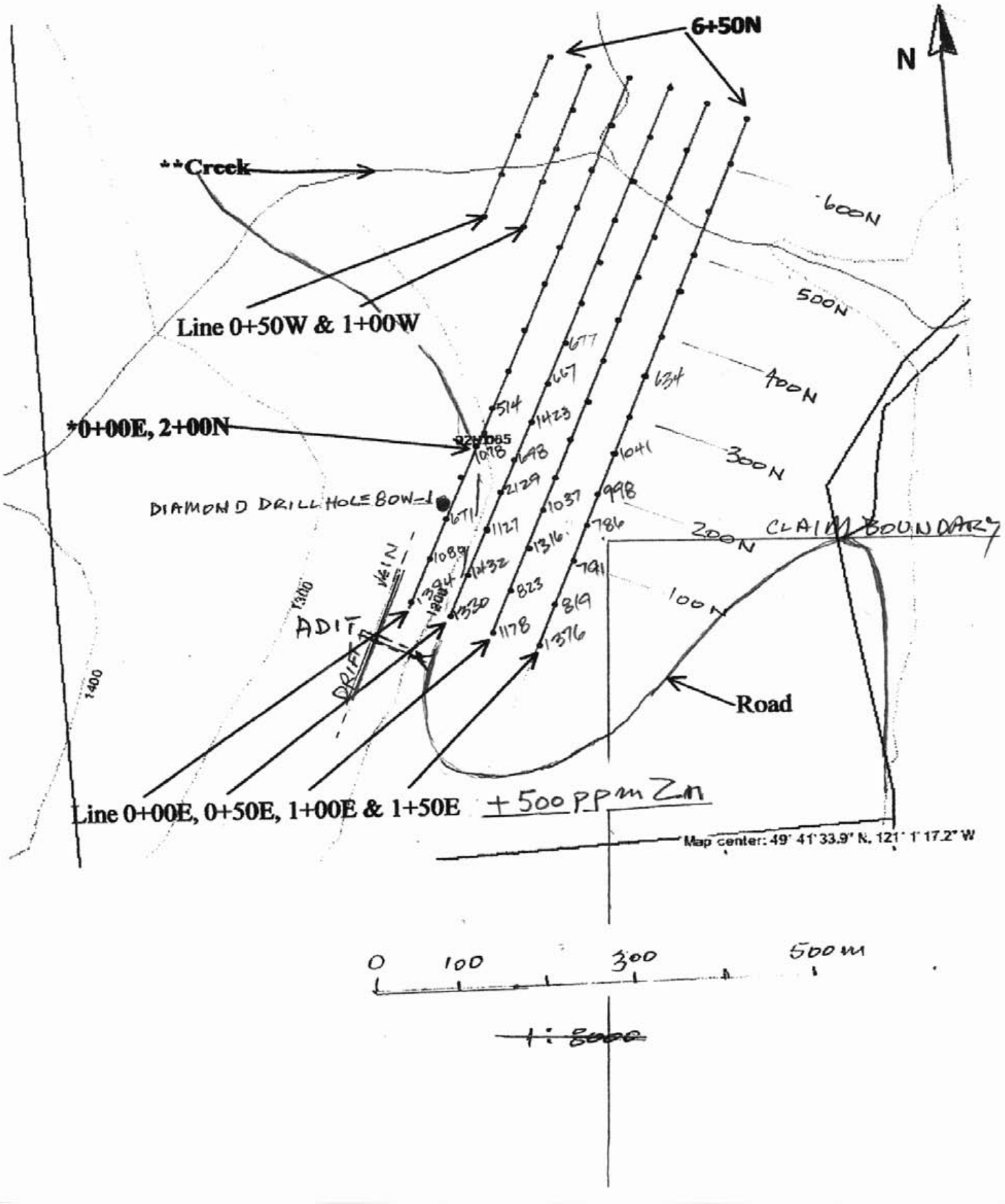


| | | |
|---|---|---|
| Cost cont. | | $ 3880 |
| Sample analysis | | $ 1330.52 |
| Report and maps | | $ 1000 |
| | Total | $ 6210.52 |

PERSONEL: Geologist E. Livgard P.Eng.
Goethechnician B. Livgard

## References


Minister of Mines Reports: 1936 – 1954 – 1965 – 1966

Minfiles: 092HNW024 Keystone
022 Mag
023 Julie
050 What
034 Stonewall
025 JM or Rover

Assessment work Reports:

# 0696 Anaconda American Brass – soil survey – Sept-Oct 1965

# 3123 Corval Resources Ltd. Grid - 1971

# 3595 " Summary Report – Soil and Geology – Jan 1972

#4173 " Induced Polarization Survey (IP) – Jan -1973

# 4174 " Geological Report - Jul -1973 with u/g map
By Gordon Guthrat P.Eng.

# 4371 Denison Mines Diamond Drilling

# 4516 Geophysical Report - Jan – 1974 By P. Neilson

# 4657 and 4788 Geology and soil survey on What Cl.
El Paso Min &Mill. Co. By V. Rybback-Hardy Dec. 1973

# 6758 Western Mines Ltd Geological and Geochemical Report
Keystone Project. K.W. Livingstone June 19/79

# 7135A&B " Geophysics – Geol. And Diamond drilling
L. Salenken Feb. 1979

# 7771 " geology D.D.H. #W79-1,-2, W78-1
By L.W. Seleken July 16 1980

# 8863 " D.D.H. W80-1,-2 – A.Randall Jan 1982

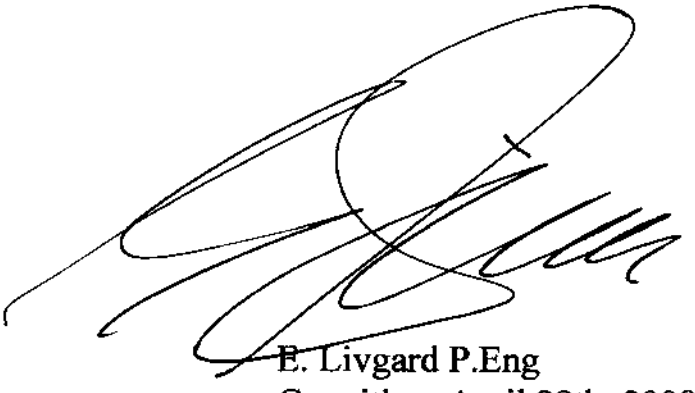
# 9648 Westmin Resources Ltd. Geochemical survey
D.W.Ferguson Aug. 1982

# 18485 Blue Gold Resources Ltd. Geochemical Report on the

Keystone Property by Jan. 6th 1990
# 19139 " Diamond Drilling July 1990 By R.S. Adamson
# 28410 Silver Mountain: Soil and stream silt sampling
# 28910 " Rock chip sampling E. Livgard P.Eng.

Other Reports:

J.T. Mandy Report on Keystone Project Aug. 4th 1951
K.C. Fahrni Report on Stonewall Property Oct. 1954
B.C. MacDonald Summary Report of Diamond Drilling on Coquihalla Property for Dorian Resources. Nov. 26th 1966
E. Livgard Report on the Corval Resources Ltd. Property in the Coquihalla Valley April 6th 1971



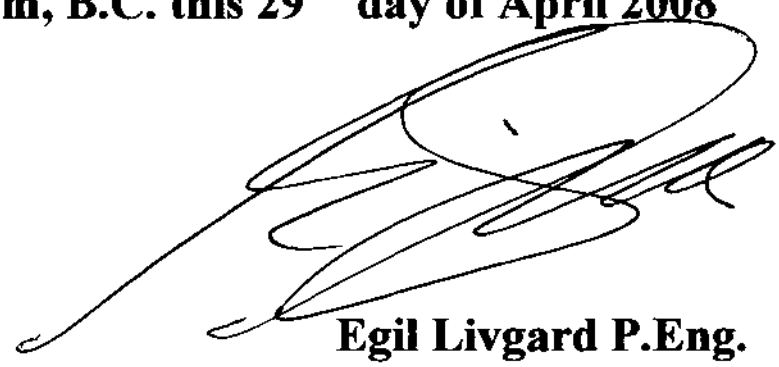
E. Livgard P.Eng
Coquitlam April 29th 2008

# Certificate

**I, Egil Livgard, of 1990 King Albert Ave., Coquitlam B.C. do hereby certify:**

**1. I am a geological engineer practicing from my home address.**
**2. I am a graduate of the University of B.C. with a B.Sc. degree in geological sciences and have regularly updated and expanded my geological knowledge through many short courses given by MDRU (Mineral Deposits Research Unit) U.B.C., GAC and AME (B.C. Chamber of Mines).**
**3. I am a registered member in good standing of the Association of Professional Engineers and Geoscientists of the Province of B.C., with registration number 7236.**
**4. I have practiced my profession for 46 years.**
**5. This report is based on the references as listed and on property examinations in 2007 and the work described in this report.**

**Dated at Coquitlam, B.C. this 29th day of April 2008**



**Egil Livgard P.Eng.**

Appendix analysis sheets 7

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Livgard, Egil** File # A704714 Page 1

1990 King Albert Ave, Coquitlam BC V3J 1Z1 Submitted by: Egil Livgard

Silver in Water

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | .9 | 2.1 | 2.8 | 45 | <.1 | 6.1 | 4.1 | 475 | 1.65 | <.5 | 1.7 | 1.0 | 3.2 | 46 | <.1 | <.1 | .1 | 34 | .40 | .071 | 6 | 60 | .57 | 201 | .114 | 1 | .92 | .062 | .48 | .1 | <.01 | 2.3 | .3 | <.05 | 4 | <.5 |
| SM07 6+50N 1+00W | 1.4 | 15.2 | 7.1 | 70 | .1 | 6.2 | 5.2 | 391 | 1.89 | 1.7 | .2 | 1.9 | .6 | 13 | .2 | .1 | .2 | 48 | .09 | .098 | 3 | 13 | .23 | 79 | .056 | 1 | 1.25 | .010 | .03 | .1 | .03 | 1.4 | .1 | <.05 | 6 | <.5 |
| SM07 6+50N 0+50W | 2.5 | 29.2 | 11.1 | 289 | .2 | 10.0 | 8.6 | 1816 | 2.15 | 1.0 | .8 | 1.4 | .6 | 83 | .7 | .1 | .2 | 45 | .36 | .066 | 17 | 15 | .34 | 417 | .069 | 3 | 1.86 | .016 | .04 | <.1 | .03 | 2.3 | .1 | <.05 | 7 | .5 |
| SM07 6+50N 0+00E | 4.1 | 48.1 | 14.6 | 246 | .2 | 10.4 | 8.0 | 430 | 2.48 | 2.2 | .5 | .8 | 1.0 | 22 | .2 | .2 | .2 | 52 | .17 | .089 | 4 | 16 | .37 | 124 | .018 | 2 | 2.02 | .009 | .05 | .1 | .04 | 2.1 | .1 | <.05 | 6 | .6 |
| SM07 6+50N 0+50E | 6.0 | 88.0 | 9.5 | 123 | .6 | 12.8 | 6.8 | 350 | 1.75 | 1.1 | 1.2 | 1.0 | .8 | 55 | .2 | .2 | .2 | 41 | .25 | .041 | 15 | 19 | .46 | 240 | .044 | 2 | 2.22 | .013 | .03 | .1 | .04 | 3.4 | .2 | <.05 | 7 | .6 |
| SM07 6+00N 1+00E | 1.1 | 13.3 | 7.8 | 62 | .1 | 7.6 | 6.0 | 416 | 2.20 | 3.1 | .3 | 2.0 | 1.1 | 11 | .1 | .2 | .2 | 52 | .09 | .089 | 3 | 13 | .24 | 70 | .089 | 1 | 2.18 | .011 | .03 | .1 | .04 | 1.9 | <.1 | <.05 | 7 | <.5 |
| SM07 6+50N 1+50E | .7 | 14.6 | 6.1 | 52 | .1 | 7.4 | 5.8 | 395 | 2.02 | 2.8 | .4 | .8 | 1.1 | 11 | .1 | .2 | .1 | 50 | .09 | .102 | 3 | 14 | .27 | 53 | .078 | 1 | 1.95 | .010 | .03 | .1 | .04 | 2.4 | <.1 | <.05 | 5 | <.5 |
| SM07 6+00N 1+00W | 1.7 | 21.2 | 6.6 | 85 | .1 | 8.4 | 6.4 | 468 | 2.15 | 1.5 | .3 | 1.3 | .5 | 30 | .2 | .1 | .2 | 57 | .23 | .041 | 3 | 15 | .36 | 111 | .064 | 1 | 1.32 | .010 | .04 | .1 | .02 | 1.7 | <.1 | <.05 | 6 | <.5 |
| SM07 6+00N 0+50W | 2.2 | 20.8 | 8.1 | 291 | .3 | 9.2 | 7.2 | 436 | 2.44 | 1.8 | .4 | 1.3 | .7 | 33 | .5 | .2 | .2 | 57 | .22 | .053 | 5 | 16 | .40 | 263 | .047 | 1 | 1.60 | .012 | .06 | .1 | .03 | 1.9 | .1 | <.05 | 8 | <.5 |
| RE SM07 6+00N 1+00E | 1.0 | 13.6 | 6.5 | 61 | .2 | 6.9 | 5.7 | 522 | 2.17 | 3.7 | .3 | 1.6 | 1.0 | 11 | <.1 | .1 | .1 | 53 | .09 | .142 | 3 | 14 | .24 | 69 | .073 | 1 | 1.89 | .011 | .03 | .1 | .04 | 2.1 | <.1 | <.05 | 6 | <.5 |
| SM07 6+00N 0+00E | 4.5 | 18.7 | 11.9 | 301 | .2 | 6.4 | 5.7 | 375 | 2.55 | 2.9 | .3 | .7 | .7 | 12 | .1 | .3 | .2 | 56 | .13 | .071 | 4 | 11 | .36 | 100 | .009 | 1 | 1.73 | .010 | .05 | .1 | .02 | 2.1 | .1 | <.05 | 8 | .5 |
| SM07 6+00N 0+50E | 1.4 | 56.6 | 6.4 | 72 | .2 | 15.0 | 11.9 | 763 | 2.85 | 4.2 | .7 | 3.3 | 1.2 | 69 | .1 | .3 | .2 | 70 | .65 | .088 | 11 | 25 | .86 | 190 | .101 | 1 | 1.73 | .028 | .14 | .2 | .04 | 6.0 | .1 | <.05 | 5 | .5 |
| SM07 6+00N 1+00E | 1.0 | 14.8 | 6.4 | 63 | .2 | 7.3 | 5.9 | 518 | 2.22 | 3.6 | .4 | 2.6 | 1.2 | 12 | .1 | .2 | .1 | 55 | .09 | .141 | 3 | 14 | .25 | 71 | .076 | 1 | 2.06 | .014 | .03 | .1 | .05 | 2.1 | .1 | <.05 | 7 | <.5 |
| SM07 6+00N 1+50E | .8 | 15.7 | 7.4 | 52 | .1 | 8.1 | 6.3 | 714 | 1.96 | 3.3 | .3 | 2.3 | 1.0 | 12 | .1 | .1 | .2 | 49 | .10 | .106 | 4 | 14 | .29 | 60 | .079 | 1 | 1.79 | .010 | .04 | .2 | .04 | 2.3 | .1 | <.05 | 6 | <.5 |
| SM07 5+50N 1+00W | 1.9 | 14.4 | 8.9 | 110 | .2 | 4.7 | 4.4 | 165 | 2.23 | 2.0 | .2 | <.5 | .5 | 13 | .1 | .2 | .2 | 61 | .11 | .048 | 3 | 11 | .29 | 88 | .025 | 1 | 1.60 | .010 | .03 | .1 | .03 | 1.6 | .1 | <.05 | 9 | <.5 |
| SM07 5+50N 0+50W | .9 | 12.8 | 10.9 | 110 | .3 | 4.8 | 6.9 | 835 | 2.05 | 2.1 | .3 | 1.4 | .7 | 12 | .2 | .1 | .2 | 49 | .11 | .169 | 3 | 12 | .21 | 80 | .061 | 1 | 1.52 | .013 | .04 | .1 | .04 | 1.6 | .1 | <.05 | 7 | <.5 |
| SM07 5+50N 0+00E | 2.3 | 14.5 | 10.7 | 155 | .4 | 5.8 | 7.6 | 282 | 2.04 | 1.2 | .3 | <.5 | .3 | 48 | .1 | .2 | .2 | 47 | .38 | .035 | 5 | 12 | .27 | 281 | .021 | 2 | 1.17 | .014 | .04 | .1 | .03 | 1.6 | .1 | <.05 | 7 | <.5 |
| SM07 5+50N 0+50E | 2.3 | 32.2 | 6.1 | 101 | .2 | 12.9 | 8.3 | 266 | 3.02 | 3.4 | .3 | 5.5 | .7 | 23 | .1 | .2 | .2 | 67 | .20 | .108 | 3 | 20 | .54 | 174 | .054 | <1 | 1.72 | .010 | .04 | .1 | .03 | 2.4 | <.1 | <.05 | 6 | <.5 |
| SM07 5+50N 1+00E | .8 | 31.0 | 4.3 | 51 | .1 | 11.7 | 8.5 | 326 | 2.25 | 2.5 | .3 | 1.5 | .8 | 26 | .1 | .1 | .1 | 55 | .23 | .051 | 4 | 21 | .61 | 70 | .071 | <1 | 1.55 | .011 | .04 | .1 | .01 | 3.0 | <.1 | <.05 | 4 | <.5 |
| SM07 5+50N 1+50E | .7 | 39.9 | 5.5 | 50 | <.1 | 12.6 | 10.3 | 492 | 2.66 | 3.2 | .4 | 2.4 | 1.1 | 38 | .1 | .2 | .1 | 70 | .36 | .074 | 7 | 22 | .63 | 104 | .100 | 2 | 1.43 | .015 | .08 | .1 | .01 | 4.4 | <.1 | <.05 | 4 | <.5 |
| SM07 5+00N 1+00W | 1.6 | 25.8 | 9.0 | 139 | .3 | 8.2 | 5.2 | 159 | 2.52 | 2.4 | .3 | .5 | .9 | 14 | .2 | .1 | .2 | 57 | .11 | .131 | 3 | 19 | .32 | 92 | .069 | 1 | 2.01 | .011 | .04 | .1 | .05 | 2.1 | <.1 | <.05 | 10 | <.5 |
| SM07 5+00N 0+50W | 1.0 | 23.1 | 8.3 | 148 | .4 | 7.7 | 6.9 | 759 | 1.92 | 1.0 | .5 | .8 | .5 | 31 | .2 | .1 | .2 | 48 | .29 | .038 | 7 | 13 | .36 | 264 | .064 | 1 | 1.38 | .016 | .03 | .1 | .03 | 1.7 | .1 | <.05 | 6 | <.5 |
| SM07 5+00N 0+00E | 1.0 | 12.9 | 7.9 | 92 | .2 | 5.7 | 5.2 | 235 | 2.03 | 2.1 | .2 | .9 | .5 | 26 | .2 | .1 | .2 | 48 | .29 | .064 | 4 | 12 | .26 | 177 | .058 | 1 | 1.14 | .011 | .04 | .1 | .02 | 1.3 | <.1 | <.05 | 7 | <.5 |
| SM07 5+00N 0+50E | 1.4 | 58.6 | 6.2 | 70 | .8 | 9.2 | 5.9 | 303 | 1.84 | 1.8 | 1.0 | 1.9 | .5 | 26 | .2 | .2 | .1 | 40 | .23 | .029 | 9 | 16 | .42 | 106 | .062 | 1 | 1.64 | .010 | .03 | .1 | .04 | 2.3 | <.1 | <.05 | 5 | .6 |
| SM07 5+00N 1+00E | .8 | 11.6 | 8.6 | 66 | <.1 | 4.4 | 4.8 | 606 | 1.79 | 1.8 | .1 | .5 | .3 | 13 | .1 | .1 | .1 | 46 | .13 | .056 | 2 | 9 | .21 | 72 | .028 | 1 | .83 | .008 | .03 | .1 | .01 | 1.2 | .1 | <.05 | 5 | <.5 |
| SM07 5+00N 1+50E | 1.1 | 38.2 | 5.5 | 43 | .2 | 11.2 | 7.8 | 252 | 2.56 | 2.5 | .3 | .8 | .8 | 23 | .1 | .2 | .1 | 67 | .21 | .031 | 4 | 20 | .45 | 93 | .076 | 1 | 1.60 | .010 | .04 | .1 | .03 | 2.6 | <.1 | <.05 | 6 | <.5 |
| SM07 4+50N 1+00W | 1.1 | 11.7 | 11.5 | 127 | .3 | 5.7 | 7.8 | 275 | 2.46 | 3.7 | .4 | 1.1 | 1.3 | 17 | .3 | .1 | .2 | 42 | .16 | .490 | 3 | 13 | .20 | 198 | .096 | 1 | 2.21 | .012 | .04 | .1 | .04 | 1.9 | <.1 | <.05 | 11 | <.5 |
| SM07 4+50N 0+50W | 1.1 | 21.4 | 6.0 | 62 | <.1 | 5.6 | 5.2 | 282 | 1.87 | 1.9 | .1 | 1.1 | .4 | 15 | .1 | .1 | .1 | 46 | .16 | .086 | 2 | 10 | .26 | 63 | .029 | <1 | 1.00 | .008 | .03 | .1 | .01 | 1.2 | <.1 | <.05 | 5 | <.5 |
| SM07 4+50N 0+00E | 1.2 | 16.3 | 8.8 | 124 | .2 | 6.4 | 5.6 | 183 | 2.86 | 3.4 | .2 | .6 | .9 | 16 | .2 | .1 | .2 | 58 | .15 | .222 | 2 | 16 | .25 | 119 | .060 | 2 | 2.45 | .012 | .03 | .2 | .04 | 1.9 | <.1 | <.05 | 8 | <.5 |
| SM07 4+50N 0+50E | .7 | 14.0 | 7.9 | 90 | .1 | 5.4 | 5.6 | 209 | 2.10 | 2.0 | .2 | <.5 | .5 | 19 | .3 | .1 | .2 | 47 | .19 | .123 | 3 | 13 | .26 | 97 | .065 | 2 | 1.09 | .011 | .04 | .1 | .02 | 1.3 | <.1 | <.05 | 7 | <.5 |
| SM07 4+50N 1+50E | .6 | 20.8 | 6.5 | 59 | .3 | 9.8 | 7.8 | 871 | 2.44 | 3.6 | .3 | 4.8 | .8 | 14 | .2 | .2 | .1 | 59 | .14 | .108 | 3 | 18 | .42 | 73 | .071 | 3 | 1.89 | .013 | .05 | .1 | .05 | 2.3 | .1 | <.05 | 6 | <.5 |
| SM07 4+00N 0+00E | .7 | 24.4 | 7.7 | 156 | .3 | 7.7 | 7.0 | 328 | 2.26 | 1.7 | .4 | 1.5 | .5 | 21 | .3 | .2 | .2 | 48 | .21 | .056 | 7 | 14 | .35 | 124 | .062 | <1 | 1.37 | .012 | .03 | .1 | .02 | 1.8 | <.1 | <.05 | 7 | <.5 |
| SM07 4+00N 0+50E | .7 | 18.6 | 6.8 | 128 | .2 | 5.4 | 5.5 | 910 | 1.93 | 2.0 | .3 | 1.1 | .2 | 23 | .5 | .2 | .1 | 44 | .18 | .059 | 4 | 11 | .23 | 123 | .046 | 1 | 1.11 | .011 | .03 | .1 | .03 | 1.2 | <.1 | <.05 | 5 | <.5 |
| SM07 4+00N 1+50E | .6 | 13.7 | 9.1 | 218 | .1 | 8.6 | 8.0 | 699 | 2.29 | 2.3 | .3 | <.5 | .8 | 14 | .2 | .2 | .2 | 52 | .14 | .057 | 4 | 15 | .38 | 66 | .091 | 3 | 1.62 | .012 | .03 | .1 | .02 | 1.8 | <.1 | <.05 | 7 | <.5 |
| SM07 3+50N 0+00E | .7 | 19.0 | 6.9 | 356 | .3 | 7.8 | 6.5 | 278 | 2.06 | 1.9 | .5 | <.5 | .6 | 20 | .3 | .1 | .2 | 47 | .20 | .042 | 6 | 14 | .37 | 117 | .071 | 2 | 1.43 | .014 | .04 | .1 | .03 | 1.8 | <.1 | <.05 | 6 | .6 |
| SM07 3+50N 0+50E | .6 | 15.1 | 21.8 | 677 | .2 | 8.6 | 7.6 | 841 | 2.21 | 1.4 | .4 | <.5 | .6 | 20 | .7 | .1 | .2 | 50 | .22 | .049 | 4 | 15 | .45 | 121 | .078 | 2 | 1.50 | .013 | .04 | .1 | .03 | 2.0 | <.1 | <.05 | 6 | <.5 |
| SM07 3+50N 1+50E | .7 | 18.2 | 31.8 | 634 | .3 | 10.0 | 8.7 | 699 | 2.01 | 1.3 | .3 | 1.2 | .6 | 21 | .7 | .2 | .1 | 51 | .22 | .022 | 5 | 17 | .47 | 85 | .092 | 3 | 1.48 | .013 | .03 | .1 | .02 | 2.3 | <.1 | <.05 | 5 | <.5 |
| SM07 3+00N 0+00E | .5 | 17.9 | 13.3 | 567 | .3 | 7.5 | 7.3 | 831 | 2.06 | 1.6 | .5 | <.5 | .6 | 21 | .6 | .2 | .3 | 45 | .23 | .051 | 6 | 14 | .35 | 111 | .068 | 1 | 1.35 | .012 | .04 | .1 | .01 | 1.7 | <.1 | <.05 | 6 | <.5 |
| STANDARD DS7 | 20.9 | 107.5 | 69.6 | 424 | .9 | 55.5 | 9.3 | 646 | 2.45 | 49.8 | 5.2 | 71.1 | 4.5 | 78 | 6.4 | 6.5 | 4.6 | 90 | .98 | .079 | 13 | 200 | 1.09 | 383 | .125 | 40 | 1.05 | .097 | .47 | 4.2 | .21 | 2.8 | 4.3 | .21 | 5 | 4.0 |

GROUP 1DX - 15 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

JUL 3 2007

Data FA DATE RECEIVED: JUL 9 2007 DATE REPORT MAILED:.....

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | .7 | 2.1 | 3.0 | 46 | <.1 | 7.5 | 4.4 | 518 | 1.79 | <.5 | 2.3 | 1.3 | 3.8 | 54 | <.1 | <.1 | .1 | 34 | .47 | .068 | 7 | 81 | .58 | 195 | .116 | 1 | .93 | .080 | .47 | .1 | <.01 | 2.7 | .3 | <.05 | 5 | <.5 |
| SM07 3+00N 0+50E | .6 | 19.8 | 168.9 | 714 | .3 | 10.4 | 8.8 | 1244 | 2.47 | 1.1 | .4 | 14.4 | .7 | 23 | .7 | .2 | .2 | 55 | .27 | .076 | 4 | 17 | .45 | 109 | .098 | <1 | 1.60 | .016 | .05 | .1 | .02 | 2.2 | .1 | <.05 | 8 | <.5 |
| SM07 3+00N 1+50E | .8 | 25.2 | 28.2 | 667 | .2 | 10.1 | 8.3 | 447 | 2.29 | 1.3 | .4 | 1.5 | .6 | 22 | .8 | .2 | .2 | 60 | .25 | .026 | 5 | 17 | .41 | 70 | .095 | 1 | 1.54 | .012 | .04 | .1 | .02 | 2.2 | <.1 | <.05 | 7 | <.5 |
| SM07 2+50N 0+00E | .6 | 20.5 | 39.6 | 514 | .4 | 9.0 | 7.5 | 637 | 2.17 | 1.4 | .4 | 1.0 | .6 | 17 | .4 | .2 | .2 | 50 | .19 | .060 | 3 | 15 | .34 | 105 | .073 | 1 | 1.41 | .011 | .04 | .1 | .02 | 1.9 | <.1 | <.05 | 6 | <.5 |
| SM07 2+50N 0+50E | .9 | 22.9 | 37.7 | 1423 | .4 | 11.3 | 10.3 | 1011 | 2.49 | 1.5 | .4 | 2.3 | .7 | 22 | .9 | .3 | .3 | 55 | .25 | .031 | 4 | 19 | .41 | 104 | .069 | <1 | 1.71 | .011 | .05 | .1 | .03 | 2.0 | .1 | <.05 | 7 | <.5 |
| SM07 2+50N 1+50E | 1.0 | 20.9 | 169.0 | 1041 | 4.7 | 7.4 | 6.8 | 5077 | 2.15 | 2.3 | .6 | 4.4 | 1.2 | 11 | 2.0 | .5 | .2 | 45 | .13 | .090 | 5 | 12 | .22 | 86 | .020 | 2 | 2.03 | .012 | .06 | .1 | .09 | 1.8 | .4 | <.05 | 7 | <.5 |
| RE SM07 2+50N 1+50E | 1.2 | 21.4 | 172.9 | 1053 | 4.9 | 7.3 | 6.7 | 5079 | 2.15 | 2.3 | .7 | 61.1 | 1.2 | 12 | 2.4 | .6 | .2 | 45 | .13 | .088 | 5 | 12 | .22 | 89 | .024 | 2 | 1.99 | .012 | .06 | .1 | .09 | 1.7 | .4 | <.05 | 7 | <.5 |
| SM07 2+00N 0+00E | 1.2 | 26.2 | 30.7 | 1078 | .7 | 11.2 | 8.2 | 4414 | 2.96 | 2.2 | .8 | 4.5 | 1.3 | 16 | 2.0 | .3 | 2.5 | 54 | .18 | .106 | 11 | 16 | .33 | 232 | .066 | <1 | 1.97 | .014 | .07 | .1 | .07 | 2.2 | .2 | <.05 | 9 | <.5 |
| SM07 2+00N 0+50E | 1.1 | 14.0 | 68.1 | 698 | .4 | 9.5 | 7.1 | 1083 | 2.43 | 1.8 | .4 | 1.8 | 1.0 | 12 | .6 | .3 | .3 | 54 | .16 | .064 | 4 | 14 | .26 | 89 | .055 | <1 | 1.80 | .011 | .07 | .1 | .06 | 1.6 | .2 | <.05 | 8 | <.5 |
| SM07 2+00N 1+50E | .6 | 21.6 | 124.7 | 998 | 1.2 | 5.1 | 4.5 | 6326 | 1.95 | 2.5 | .5 | 403.8 | .5 | 14 | 3.2 | .3 | 1.0 | 35 | .13 | .096 | 7 | 7 | .13 | 151 | .005 | 1 | 1.61 | .007 | .11 | .1 | .05 | 1.2 | .5 | <.05 | 6 | <.5 |
| SM07 1+50N 0+00E | .8 | 18.0 | 40.1 | 495 | 1.1 | 7.4 | 8.3 | 4556 | 2.38 | 2.1 | .3 | 47.5 | .6 | 17 | 1.4 | .2 | .3 | 53 | .20 | .141 | 4 | 14 | .27 | 153 | .044 | 1 | 1.45 | .012 | .07 | .1 | .04 | 1.7 | .2 | <.05 | 8 | <.5 |
| SM07 1+50N 0+50E | 1.0 | 25.3 | 62.7 | 2129 | 1.5 | 13.5 | 9.6 | 2333 | 3.12 | 2.9 | .8 | 3.0 | 1.2 | 22 | 2.7 | .4 | .4 | 62 | .24 | .112 | 10 | 22 | .45 | 132 | .086 | 1 | 2.04 | .013 | .07 | .1 | .07 | 2.6 | .1 | <.05 | 9 | <.5 |
| SM07 1+50N 1+50E | .6 | 16.2 | 108.7 | 786 | 2.3 | 4.3 | 5.2 | 1771 | 2.15 | 3.1 | .3 | 67.0 | .7 | 7 | .5 | .3 | .3 | 44 | .08 | .109 | 4 | 7 | .14 | 93 | .004 | <1 | 2.05 | .007 | .07 | .1 | .06 | 1.3 | .4 | <.05 | 9 | <.5 |
| SM07 1+00N 0+00E | .6 | 13.2 | 57.2 | 671 | 1.3 | 7.3 | 5.9 | 3260 | 2.16 | 3.5 | .5 | 1.8 | 1.0 | 35 | 1.9 | .3 | .2 | 44 | .47 | .125 | 7 | 9 | .24 | 334 | .018 | 1 | 1.97 | .011 | .10 | .1 | .06 | 1.8 | .3 | <.05 | 8 | <.5 |
| SM07 1+00N 0+50E | .7 | 27.6 | 126.9 | 1127 | 1.0 | 9.0 | 8.1 | 3814 | 2.49 | 3.7 | .4 | 84.9 | 1.0 | 18 | 2.0 | .4 | .5 | 51 | .22 | .087 | 6 | 13 | .29 | 148 | .016 | 1 | 1.87 | .010 | .11 | .1 | .03 | 2.0 | .4 | <.05 | 7 | <.5 |
| SM07 1+00N 1+50E | 1.6 | 15.2 | 40.0 | 791 | .8 | 6.3 | 6.8 | 1139 | 2.10 | 1.9 | .2 | 1.0 | .8 | 18 | 1.4 | .3 | .4 | 46 | .25 | .076 | 4 | 11 | .20 | 94 | .009 | 1 | 1.46 | .009 | .10 | .1 | .02 | 2.0 | .3 | <.05 | 6 | <.5 |
| SM07 0+50N 0+00E | .7 | 15.3 | 86.5 | 1080 | 1.1 | 6.2 | 5.8 | 2553 | 2.32 | 4.1 | .4 | 22.3 | 1.0 | 12 | 1.0 | .4 | .4 | 39 | .17 | .087 | 7 | 8 | .16 | 162 | .004 | <1 | 1.90 | .010 | .11 | .1 | .03 | 1.2 | .5 | <.05 | 7 | <.5 |
| SM07 0+50N 0+50E | .9 | 52.2 | 197.8 | 1432 | 7.0 | 5.9 | 6.5 | 3739 | 2.92 | 4.0 | .7 | 7.0 | 1.0 | 11 | 4.2 | 1.0 | 2.2 | 37 | .14 | .108 | 7 | 9 | .15 | 142 | .003 | <1 | 1.79 | .007 | .10 | .1 | .06 | 1.6 | .5 | <.05 | 6 | <.5 |
| SM07 0+50N 1+50E | 1.5 | 25.6 | 53.4 | 819 | 1.4 | 10.3 | 8.1 | 2431 | 2.36 | 2.0 | .4 | 3.1 | .8 | 16 | 1.5 | .5 | .4 | 51 | .16 | .061 | 5 | 15 | .30 | 119 | .035 | 3 | 1.64 | .010 | .07 | .1 | .04 | 2.0 | .2 | <.05 | 6 | <.5 |
| SM07 0+00N 0+00E | .7 | 35.4 | 200.8 | 1394 | 11.9 | 5.5 | 5.0 | 2447 | 2.73 | 9.0 | 1.0 | 31.1 | 1.2 | 10 | 2.1 | 2.7 | 1.0 | 29 | .13 | .091 | 15 | 7 | .12 | 164 | .004 | 3 | 1.56 | .006 | .15 | .1 | .08 | 2.5 | .4 | <.05 | 5 | <.5 |
| SM07 0+00N 0+50E | 1.2 | 23.4 | 110.6 | 1330 | 3.7 | 6.9 | 5.5 | 1535 | 2.34 | 3.8 | .5 | 9.3 | .9 | 10 | 2.2 | 1.2 | 1.3 | 34 | .15 | .097 | 6 | 9 | .17 | 104 | .005 | <1 | 1.59 | .006 | .11 | .1 | .05 | 1.5 | .4 | <.05 | 5 | <.5 |
| SM07 0+00N 1+50E | 2.4 | 14.3 | 39.2 | 1376 | 1.7 | 7.5 | 4.9 | 577 | 1.86 | 1.5 | .3 | 1.4 | .8 | 22 | 1.2 | .4 | .4 | 41 | .25 | .030 | 7 | 13 | .24 | 80 | .017 | 3 | 1.32 | .010 | .06 | <.1 | .01 | 1.9 | .2 | <.05 | 5 | <.5 |
| STANDARD DS7 | 21.5 | 118.9 | 75.0 | 427 | .9 | 58.9 | 10.0 | 681 | 2.53 | 49.8 | 5.5 | 109.5 | 4.8 | 79 | 6.4 | 6.3 | 4.8 | 90 | 1.00 | .076 | 14 | 225 | 1.09 | 390 | .133 | 39 | 1.06 | .105 | .45 | 4.0 | .22 | 2.9 | 4.6 | .21 | 5 | 3.7 |

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Livgard, Egil** File # A704714A

1990 King Albert Ave, Coquitlam BC V3J 1Z1 Submitted by: Egil Livgard

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm | Se ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | .9 | 2.6 | 2.8 | 50 | <.1 | 7.9 | 4.8 | 545 | 1.92 | .6 | 2.1 | <.5 | 4.1 | 57 | <.1 | <.1 | .1 | 38 | .45 | .081 | 8 | 93 | .62 | 212 | .133 | <1 | .99 | .062 | .48 | .1 | <.01 | 2.2 | .4 | <.05 | 5 | <.5 |
| SM07 1+00E 4+50N | 1.7 | 42.6 | 15.2 | 353 | .6 | 10.6 | 9.7 | 1907 | 2.35 | 2.0 | 1.2 | <.5 | .5 | 30 | 1.3 | .3 | .3 | 57 | .33 | .053 | 16 | 18 | .42 | 110 | .092 | 2 | 1.75 | .013 | .03 | .1 | .03 | 2.4 | .1 | .07 | 8 | <.5 |
| SM07 1+00E 4+00N | 1.0 | 22.1 | 13.9 | 288 | .3 | 8.2 | 7.1 | 226 | 2.65 | 2.0 | .3 | <.5 | .5 | 30 | .5 | .1 | .2 | 71 | .35 | .043 | 5 | 19 | .33 | 113 | .087 | <1 | 1.16 | .012 | .04 | .1 | .02 | 1.5 | <.1 | .06 | 9 | .5 |
| SM07 1+00E 3+50N | .6 | 18.7 | 9.4 | 195 | .2 | 8.4 | 6.9 | 1678 | 2.31 | 2.6 | .4 | <.5 | .9 | 18 | .5 | .1 | .2 | 55 | .21 | .138 | 4 | 15 | .30 | 118 | .084 | 1 | 1.74 | .010 | .05 | .1 | .02 | 1.9 | .1 | <.05 | 7 | <.5 |
| SM07 1+00E 3+00N | .8 | 23.9 | 83.5 | 389 | .5 | 7.8 | 6.9 | 1917 | 2.14 | 2.2 | .5 | .6 | .9 | 16 | 1.2 | .2 | .2 | 46 | .16 | .106 | 5 | 14 | .28 | 117 | .050 | 2 | 1.83 | .010 | .04 | .1 | .04 | 1.8 | .1 | <.05 | 6 | .5 |
| SM07 1+00E 2+50N | .8 | 15.2 | 21.6 | 296 | .5 | 8.8 | 7.8 | 708 | 2.45 | 2.7 | .4 | <.5 | 1.2 | 12 | .5 | .2 | .2 | 52 | .12 | .136 | 4 | 15 | .30 | 70 | .088 | 2 | 2.12 | .010 | .03 | .1 | .05 | 2.0 | .1 | <.05 | 7 | <.5 |
| SM07 1+00E 2+00N | 1.0 | 16.1 | 18.1 | 465 | .8 | 8.5 | 7.6 | 718 | 2.71 | 2.7 | .3 | 1.3 | .9 | 13 | .5 | .2 | .3 | 58 | .13 | .108 | 4 | 17 | .29 | 83 | .082 | 1 | 1.75 | .010 | .04 | .1 | .03 | 1.7 | .1 | <.05 | 8 | <.5 |
| SM07 1+00E 1+50N | .8 | 19.3 | 82.4 | 1037 | .9 | 6.6 | 6.5 | 1744 | 2.21 | 2.3 | .4 | 6.4 | .8 | 16 | 1.9 | .3 | .5 | 42 | .15 | .061 | 5 | 12 | .25 | 106 | .026 | <1 | 1.61 | .008 | .06 | .1 | .05 | 1.5 | .2 | <.05 | 6 | <.5 |
| SM07 1+00E 1+00N | 1.1 | 42.6 | 274.2 | 1316 | 7.6 | 12.3 | 6.9 | 4977 | 3.34 | 5.8 | .9 | 40.0 | .9 | 21 | 3.1 | .8 | 1.8 | 37 | .20 | .125 | 9 | 17 | .17 | 91 | .008 | 2 | 1.71 | .007 | .11 | .1 | .07 | 1.8 | .4 | <.05 | 5 | .5 |
| SM07 1+00E 0+50N | 1.0 | 19.9 | 85.9 | 823 | 1.1 | 7.5 | 7.1 | 3361 | 2.61 | 3.4 | .4 | 71.3 | .9 | 18 | 1.3 | .4 | .8 | 48 | .18 | .166 | 6 | 13 | .30 | 112 | .021 | 3 | 1.77 | .009 | .08 | .1 | .05 | 1.6 | .3 | <.05 | 6 | .6 |
| SM07 1+00E 0+00N | .8 | 20.1 | 73.0 | 1178 | 2.1 | 4.9 | 5.2 | 1491 | 2.26 | 3.8 | .4 | 5.5 | .8 | 27 | 1.4 | .5 | 1.3 | 31 | .23 | .083 | 11 | 9 | .16 | 104 | .004 | 1 | 1.27 | .008 | .09 | .1 | .04 | 1.4 | .3 | <.05 | 4 | <.5 |
| STANDARD DS7 | 21.3 | 118.6 | 76.4 | 442 | .9 | 61.1 | 10.5 | 662 | 2.57 | 49.8 | 5.6 | 79.6 | 5.0 | 80 | 6.4 | 6.4 | 4.9 | 92 | .95 | .077 | 15 | 214 | 1.11 | 387 | .141 | 40 | 1.08 | .093 | .45 | 4.4 | .22 | 2.9 | 4.3 | .22 | 5 | 4.6 |

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C

Data___ FA ____ **DATE RECEIVED:** JUL 14 2007 **DATE REPORT MAILED:** ..... 2007

CERTIFIED ASSAYER
Richmond Chan

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Livgard, Egil** File # A704712

1990 King Albert Ave, Coquitlam BC V3J 1Z1 Submitted by: Egil Livgard

| SAMPLE# | Au* ppb |
|---|---|
| G-1 | <.5 |
| 5211 | .8 |
| 5212 | .6 |
| STANDARD OxF41 | 733.1 |

AU* GROUP 3A - IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
- SAMPLE TYPE: ROCK R150

Data FA ____ **DATE RECEIVED:** JUL 9 2007 **DATE REPORT MAILED:** Aug 2/07....

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

# GEOCHEMICAL ANALYSIS CERTIFICATE

Livgard, Egil File # A704712

1990 King Albert Ave, Coquitlam BC V3J 1Z1 Submitted by: Egil Livgard

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 2 | 3 | 3 | 45 | <.3 | 4 | 4 | 517 | 1.92 | <2 | <8 | <2 | 4 | 56 | <.5 | <3 | 3 | 34 | .49 | .072 | 7 | 7 | .62 | 216 | .12 | <20 | 1.04 | .07 | .53 | <2 |
| 5211 | 5 | 142 | 55 | 399 | .6 | 11 | 20 | 2875 | 7.36 | 8 | 8 | <2 | <2 | 138 | .5 | <3 | 10 | 216 | 2.49 | .051 | 4 | 17 | 3.81 | 387 | .01 | <20 | 4.15 | .10 | .06 | <2 |
| 5212 | 1 | 24 | 33 | 237 | .3 | 5 | 7 | 2550 | 2.11 | <2 | <8 | <2 | 3 | 69 | 2.6 | <3 | 3 | 27 | .30 | .073 | 15 | 4 | .72 | 1138 | <.01 | <20 | 1.24 | .05 | .13 | <2 |
| STANDARD DS7 | 19 | 103 | 67 | 409 | .9 | 52 | 9 | 637 | 2.45 | 52 | <8 | <2 | 4 | 73 | 5.7 | 7 | 7 | 85 | .95 | .072 | 11 | 194 | 1.09 | 399 | .12 | 37 | 1.03 | .09 | .46 | 3 |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150

Data___ FA ____ **DATE RECEIVED:** JUL 9 2007 **DATE REPORT MAILED:** JUL 25 2007

Raymond Chan

ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716 www.acmelab.com

**Client:** **Livgard, Egil**
1990 King Albert Ave
Coquitlam BC V3J 1Z1 Canada

Submitted By: Egil Livgard
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: August 27, 2007
Report Date: October 31, 2007


## CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 15

## SAMPLE DISPOSAL

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status |
|---|---|---|---|---|
| R150 | 15 | Crush, split and pulverize rock to 150 mesh | | |
| 3A | 15 | Ignited samples, acid digest, Au by ICP-MS analysis | 15 | Completed |
| 1D | 15 | 1:1:1 Aqua Regia digestion ICP-ES analysis | 0.5 | Completed |

## ADDITIONAL COMMENTS

Invoice To: Livgard, Egil
1990 King Albert Ave
Coquitlam BC V3J 1Z1
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

**AcmeLabs** ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716 www.acmelab.com

**Client:** **Livgard, Egil**
1990 King Albert Ave
Coquitlam BC V3J 1Z1 Canada

Project:
Report Date: October 08, 2007

Page: 1 of 1 Part 1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| M07-05 | Silt | 4.1 | 58.2 | 22.9 | 143 | 0.9 | 35.9 | 12.6 | 532 | 3.22 | 48.6 | 0.6 | 11.4 | 3.8 | 34 | 1.7 | 5.4 | 0.3 | 27 | 0.37 | 0.113 |
| REP M07-05 | QC | 3.7 | 51.8 | 21.8 | 127 | 0.9 | 33.3 | 11.8 | 462 | 3.10 | 46.3 | 0.6 | 48.7 | 3.8 | 32 | 1.5 | 5.2 | 0.3 | 25 | 0.36 | 0.099 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 20.6 | 102.9 | 73.9 | 396 | 0.9 | 60.1 | 9.8 | 637 | 2.49 | 48.4 | 5.0 | 80.1 | 5.0 | 83 | 6.0 | 5.5 | 4.6 | 83 | 1.03 | 0.074 |
| STD DS7 | Standard | 20.6 | 98.8 | 66.8 | 409 | 0.8 | 60.1 | 9.4 | 618 | 2.36 | 45.3 | 4.8 | 99.6 | 4.9 | 82 | 5.9 | 5.8 | 4.0 | 91 | 1.00 | 0.072 |
| STD DS7 Expected | | 20.92 | 109 | 70.6 | 411 | 0.89 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 68.7 | 6.38 | 5.86 | 4.51 | 86 | 0.93 | 0.08 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |

Soil sampling

57 soil samples were collected along grid lines striking 30 deg. Az. The lines were 50 metres apart and the samples were located every 50 meters. Four lines were 650 meters long and two 200 meter lines were added on the northeast end. At each station a hole was dug with a sharp narrow shovel, and the "B" horizon determined. The samples were collected from the "B" soil horizon. This horizon was generally quite shallow but deepening to the east toward a creek valley. The "B" horizon was distinct brown and was from 5 to 10 cm thick while the overlaying soil and grey (leached) horizon was from 5 to 25 cm deep. Samples were collected in kraft paper soil bags and taken to Acme Analytical Labs for ICP analysis. The method of analysis is noted on the analysis sheets.

## Cost Declaration

| Personnel: | | Field days | Rate | sub tot |
|---|---|---|---|---|
| Bryan Livgard –Geothechnisan | | 5 July2-6/07 | $300 | $1500 |
| Dag Livgard | Assistant | 5 " | $200 | $1000 |
| Egil Livgard | P.Eng. Geol | 1July2nd/0 | $480 | $ 480 |

| | | | | |
|---|---|---|---|---|
| Office | | | | |
| Research & data base E. Livgard | | 1 ½ | $480 | $720 |
| Report | | 2 | $480 | $960 |
| Ground examination and layout | 1 | | | |
| Geochemical survey | soil – ICP | | $21.81 | |
| | Rock- ICO& assay | | $21.84 | $1330.52 |
| Transportation | Merritt to Coquhalla | | | |
| | 65 km x2 x6 | = 780KM | $0.45 | $ 351.- |
| Hotel | $73.95 x 5 + $73.95 x 1 | | | $ 443.70 |
| Meals | 11 mandays | | $45 | # 495.- |
| | Total | | | $7280.22 |
| | | | | ========= |

Egil Livgard P. Eng.
Coquitlam B.C.
July 27th 2008