REPORT ON THE

TBMB PROPERTY

(TBMB 1-6 and 13-15)

Watson Lake Mining District
Yukon Territory

Latitude 60° 10'N
Longitude 131° 15'E
N.T.S. 105 B/3

Submitted by

Hardy Hibbing
Box 547
Watson Lake, YT
YOA 1CO

Prepared for

Yukon Mining Incentives Program

93-071

1993 12 28

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Summary

The TBMB property is located approximately sixteen kilometres north of Swift River in the Southern Yukon Territory. The property consists of the TBMB 1-6 and 13-15, recorded in the Watson Lake Mining District, and belongs to Hardy Hibbing of Watson Lake.

The area has seen extensive exploration activity since 1946, first for silver, later for zinc, lead, tungsten and tin.

In 1992 Hardy Hibbing bought the property to explore gossanous silicates, as well as previously uncovered showings of lead-zinc-silver.

An excavation and assay program were undertaken on the property in 1993, and 14 new showings of lead-zinc-silver were uncovered. While unsuccessful to uncover any mineralization of economic size, the similarity of 11 of the 14 showings as fracture fillings , up to one mile apart, may indicate injection from a common source.

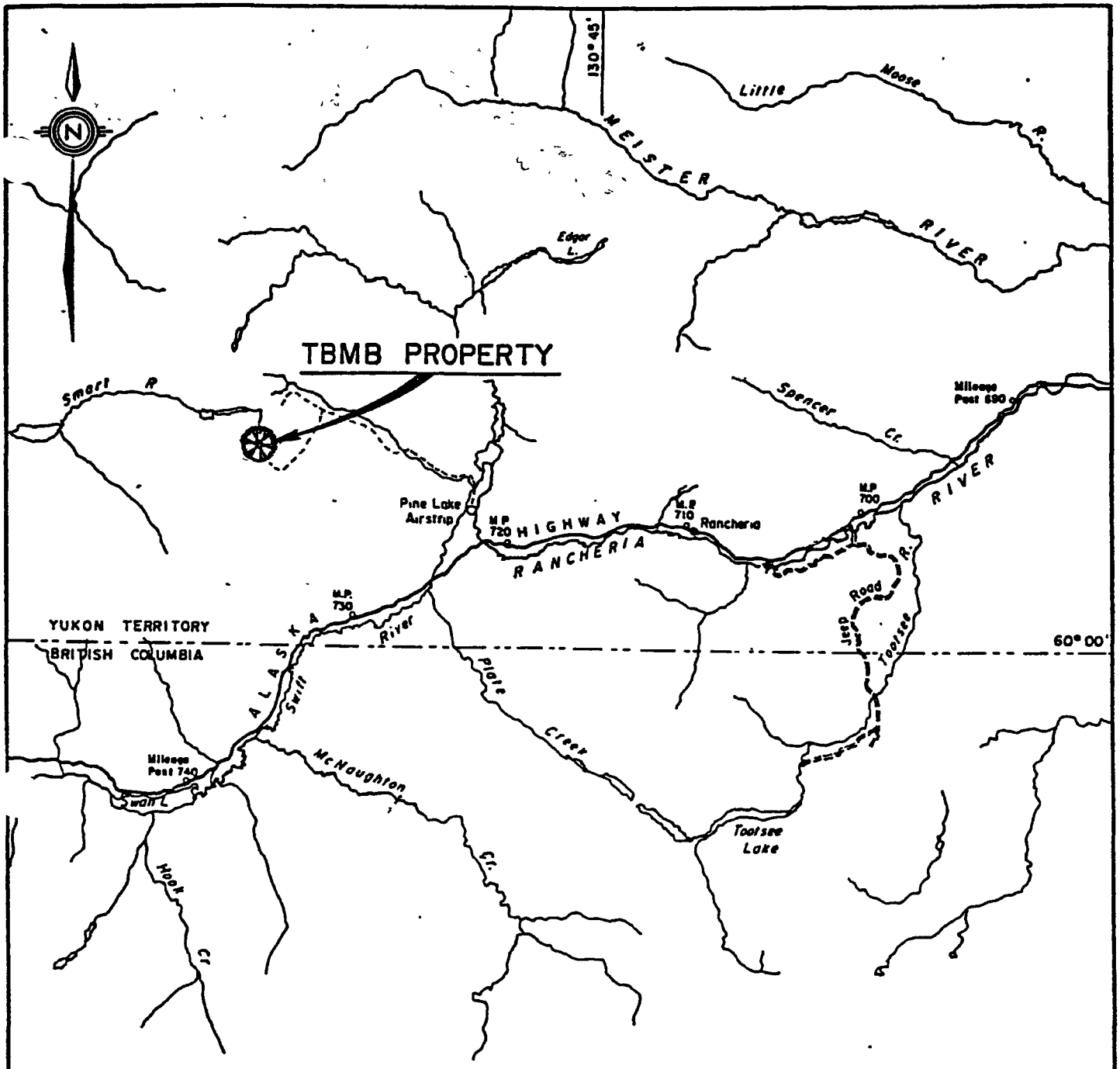
Elevated gold and silver values in -80 mesh soil samples over 600' across bedding of gossanous silicates require further work on the property.

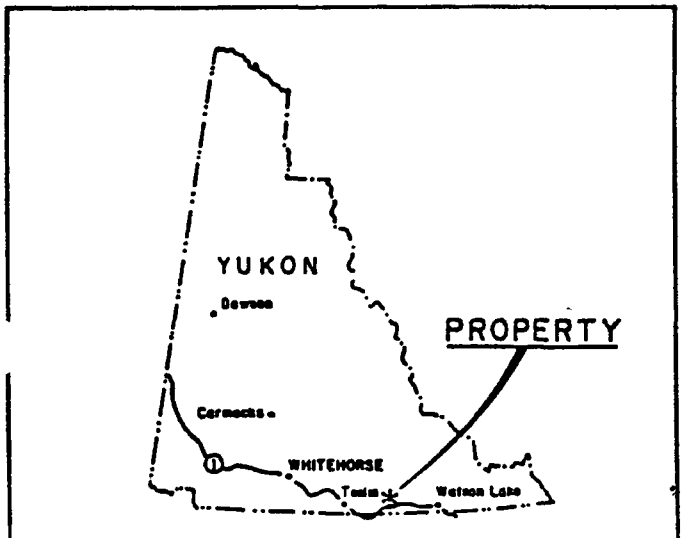
Introduction

During work in the area of the TBMB property, a question arose on whether or not the stratas were of exhalative origin. If so--are any of these stratas carrying metals or minerals of economic interest. To determine the origin of the materials in the stratas, a trench of approximately 2,500' was cut across bedding and a geo-chem survey conducted. A second trench of approximately 2,000' was cut with bedding to expose cross-cutting features and a geo-chem survey followed. All work was conducted in July and August, of 1993, by Hardy Hibbing. Assay results are consistent with makeup of other known exhalites.

Location and Access

The TBMB claims are centred at approximately 60° 10' north latitude and 131° 15' west of longitude in the Watson Lake Mining District of the Yukon Territory (figure 1). The property is 16 kilometres north of the community of Swift River, in the Dorsey Range of the Cassiar Mountains--N.T.S. sheet 105 B/3. Access to the property is gained by a twenty-three kilometre four-wheel drive road from the Pine Lake Airstrip at kilometre 1162 (mile 722) on the Alaska Highway. The road parallels Swift River for sixteen kilometres before heading south-east to two small lakes at the head of its south fork, and eventually climbing 300





KILOMETRES
0 10 20

Report on

TBMB PROPERTY

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

LOCATION MAP

Hardy Hibbing

1993 12 28 | SCALE: 1:500,000 | FIGURE No. 1

meters to the saddle at the head of Munson creek and the area of the showings at an elevation of about 5,000 feet. Rancheria Lodge, located on the Alaska Highway at kilometre 1143 (mile 710), provides hotel, restaurant and gas station facilities. Watson Lake, approximately 160 km to the east of the property, is the closest town and provides full services as well as commercial air transportation.

Physiography and Vegetation

Elevations on the property range from 1,250 meters (4,100') to 1,952 meters (6,405') above sea level. The topography consist of steep to precipitous slopes leading up to high ridges and cirques. The valley bottoms are frequently covered with thick glacial and slide debris, but bedrock exposure is excellent on the slopes and ridge tops. Vegetation in the area consists of alpine fir, engelmann spruce and scrub birch with willow on the lower slopes, and alpine tundra above 1,400 meters.

Claim Information

The property consists of the TBMB 1-6 and 13-15 claims which were staked by T. McCrory, W. Preston, M. Nielsen and B. Buchanan of Whitehorse, Yukon Territory. The claims were purchased by Hardy Hibbing of Watson Lake in January 1992. These claims are recorded in Watson Lake mining

LAKE

MUNSON

105-B-3

TBMB

YA91284 YA91280 YA91281

YA91283 YA91278 YA91279

YA91282 YA91276 YA91277

LEERON

STRATA

BOUND

MINE

KEY

PARK

DAN

TANS

MOUNTAIN

Goddart Creek

Figure 2

District of the Yukon Territory on N.T.S. 105 B/3 (figure 2). Claim details are listed below:

Claims	Record Numbers	Record Date
TBMB 1-6	YA91276-YA91281	August 11, 1986
TBMB 13-15	YA91282-YA91284	August 11, 1986

All posts have been located and all posts had been tagged.

History

Prospecting in the region began in the 1870's with the discovery of placer gold on Liard River and its tributaries, Rainbow, Scurvy , Sayyea and Cabin Creeks. In subsequent years, the area was largely neglected, except during the 1930's when bush flying came into practice. With construction of the Alaska Highway in 1942, prospecting was renewed but was generally restricted to the country adjacent to the Highway. During the 1950's and 1960's, interest was again regenerated in the district with the discovery of silver-lead-zinc mineralization and tungsten mineralization in several localities.

Exploration in the area of the TBMB property began in August 1946 with the staking by Hudson Bay Exploration and Development Co. Ltd, of the BOM claim on what is now known as the Bom, No. 1 or Mod showing. In 1947 Hudson Bay constructed a road from Pine Lake landing strip at Mile

722.3 on the Alaska Highway to the area, carried out geological surveys and drilled 18 diamond drill holes for a total of 1993 metres (6,540 feet) (Archer & Cathro, 1976). The presence of old fuel drums and drill steel indicates that several of Hudson Bay's drill holes were on the old Munson showings, which are roughly at the centre of the TBMB claims, but no information is available on the results.

The Bom showing was restaked as the CS claim in 1952, the SMITH claim in 1957 and most recently as the MOD 1-4 claims in 1963 by E. Erickson. In 1968, Boswell River Mines Ltd. optioned the MOD claims and staked much of the adjoining area as the DAN group. In 1968 and 1969, Boswell River Mines conducted soil sampling, I.P. and E.M. -16 geophysical surveys, bulldozer trenching and diamond drilling throughout much of the area encompassed by the TBMB property including the Munson prospect. The DAN group lapsed, but the MOD 1-4 claims are still in good standing.

In 1977 the STQ 1-32 claims were staked by Cordilleran Engineering for the Minex-1977 Limited Partnership, after mapping and geochemical sampling Minex optioned the property to Amax Potash Ltd. and transferred their interest to Logtung Resources Ltd. Amax performed mapping, geophysical and geological surveys and drilled one 247 metre diamond drill hole on a tin and tungsten showing

related to a small intrusive plug. In 1978 Amax staked an additional 82 claims and then later dropped their option. some of the area encompassed by the STQ claims in now held as the TBMB property.

The D.C. Syndicate (Dome, Cominco) acquired much of the ground to the east of the STQ claims in 1979 and 1980 as the ROAD group and carried out mapping and geochemical surveys, but later let the claims lapse.

T. McCrory, W. Preston, M. Nielsen and B. Buchanan staked the TBMB claims in 1986 to cover known showings as well as cover areas of heavy manganese staining, known to be associated with silver mineralization in the Rancheria area.

Apex Energy Corporation optioned the property in 1987 and explored the TBMB claims. They had little success in delineating an orebody of any size, but assayed silver up to 120 oz per tonne. Hardy Hibbing in now owner and operator of these claims, and started an exploration program in 1993.

Summary of 1993 Work

After prospecting the TBMB claims in a semi-tight grid manner, many mineralized pieces were collected.

N

105-B-3

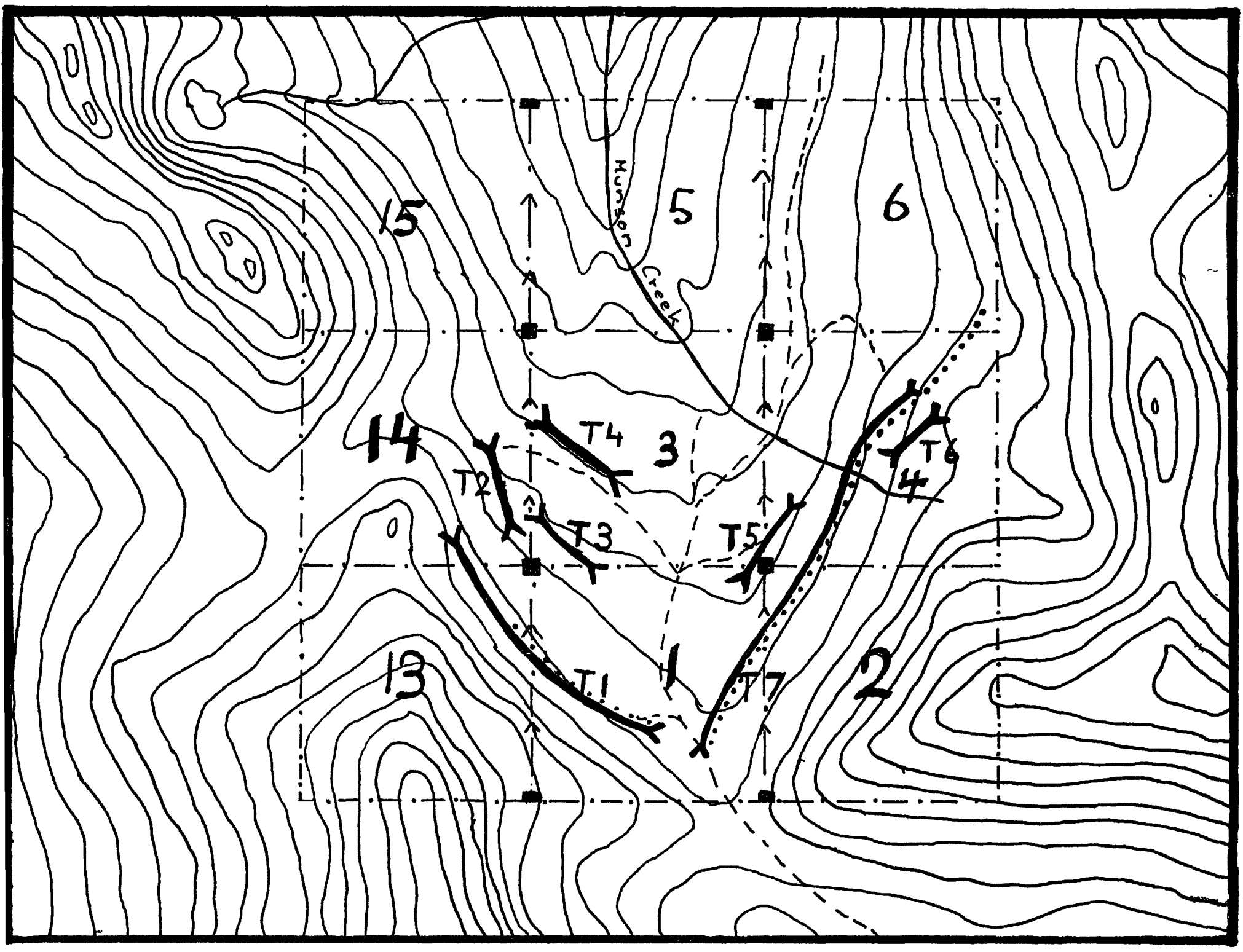


Figure 3
Roads, Trenches, Geo-chem lines

Legend
- - - - Roads
>—< Trenches
..... Geo-Chem Lines
-.-.-.- Claim boundaries

Target areas for excavation by cat dozer were then determined by the abundance of minerals in the soil. The D8H cat dozer uncovered 14 new showings of lead-zinc-silver in seven trenches. Eleven of these new showings are crosscutting bedding and are later stage fracture fillings. Three are oriented with bedding. Silver and lead values are low in these three showings with sphalerite, pyrite and pyrrhotite being most commonly associated. Magnetite is also present with bedding in close proximetry to these three showings and is the most abundant form of iron mineralization uncovered in these trenches. Copper staining as well as some chalcopyrite was observed with the magnetite. Work was performed on the property from July 1 to August 25, 1993.

Regional Geology

The following description of the regional lithology and structural geology is condensed from a report by Lowey and Lowey, 1986.

Lithology

The region around the property can be divided generally into three belts of diverse rock types:

Paleozoic sedimentary rocks of the Cassiar Platform are to be found to the east of the Rancheria area; metamorphosed Carboniferous volcanic and sedimentary rocks of the Yukon Cataclastic Terrane underlie the property, but are thought to be an overthrust block; and Cretaceous plutonic rocks of the Cassiar Batholith underlie the area between these two belts.

Paleozoic strata includes: Cambrian quartzite, phyllite, interbedded limestone and phyllite, limestone and dolostone (Atan Group); Cambro-Ordovician phyllite and hornfels (Kechika Group); Siluro-Devonian dolostone, siltstone, quartzite and limestone (Sandpile Group); Devonian limestone (McDame Group); and Devono-Mississippian quartzite, metaconglomerate and phyllite (Earn Group). These sediments were deposited in a shallow, marginal marine basin on the western edge of North America.

Metamorphosed Carboniferous strata includes Mississippian andesite and intercalated chert (Sylvester Group) and Mississippian-Pennsylvainian mylonite, quartzite and dolostone. These rocks were thrust over the Paleozoic strata in late Jurassic--Early Cretaceous time.

The Cassiar Batholith, consisting predominately of granite and granodiorite, intruded both the Paleozoic and Carboniferous strata in early Cretaceous time.

Published, 1960 Reprinted 1960
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Figure 4

MAP 10-1960
GEOLOGY
WOLF LAKE
YUKON TERRITORY

Scale: One Inch to Four Miles = $\frac{1}{253,440}$

Miles
4 2 0 4 8 12

LEGEND

CRETACEOUS
- 16 SEAGULL AND HAKE BATHOLITHS – biotite quartz monzonite
- 15d CASSIAR BATHOLITH – quartz monzonite
- 15b RAM STOCK – hornblende quartz monzonite
- 13 Ultramafic rocks

DEVONIAN AND MISSISSIPPIAN
- 8 Chert, hornfels, argillite, quartzite and limestone
- 7 Greenstone, schist, quartzite, phyllite, slate and chert.

MIDDLE CAMBRIAN
- 4 Thin bedded slates, phyllite and limestone
- 4c Hornfels, limestone, skarn

LOWER CAMBRIAN
- 3b Limestone, dolomite, slate and phyllite
- 3c Limestone, argillite, and slate
- 3d Unfossiliferous limestone slate and phyllite.

CAMBRIAN AND (?) EARLIER
- 2 Quartzite, minor slate and phyllite, quartz grit and fine pebble conglomerate. 2a – phyllite, minor slate; 2b – hornfels
- Probably metamorphic equivalents of 2;
  - 1a – biotite schist and quartzite;
  - 1b – marble and skarn;
  - 1c – biotite schist and quartzite with sills, dykes, and irregular bodies of pegmatite;
  - 1d – biotite schist and gneiss.
- Overburden

LEGEND

Mile post, Alaska Highway 720
Trail . . . . . ----------
Cabin . . . . . ■
Provincial boundary . . . . . —·—·—
Intermittent stream . . . . . ~~~
Marsh . . . . . = = =
Contours (interval 1000 feet) 3000
Height in feet above mean sea-level 3260

Cartography by the Geological Survey of Canada, 1960

Approximate magnetic declination, 32° 48' East

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Large scale movement on several right-lateral transcurrent faults (i.e. Tintina, Kechika and Cassiar) occurred during Late Cretaceous--Early Tertiary time and was followed by widespread emplacement of Tertiary dykes and veins.

Structure

The regional structural trend in the area of the TBMB property is northwest, similar to that throughout most of the Cordillera. Poole et. al. (1960) recognized that the dominant structures are an anticlinal area occupied by the Cassiar Batholith that is flanked on either side by major northwest trending synclines. Lower Paleozoic strata to the southeast of the batholith were suggested by Poole et. al. (1960) to be isoclinally folded, but the repetitive nature of the strata (i.e. alternating bands of quartzite and limestone) together with the absence of certain stratigraphic units (i.e. phyllite, interbedded limestone and phyllite and dolostone), indicates that northeasterly directed imbricate thrust faulting may have occurred.

Three distinct phases of structures are recognized in the Rancheria area. The first phase includes bedding and slaty cleavage. The second phase trends northwest and includes crenulation cleavage and associated lineations and folds. The third phase is at approximately 90° to the second phase and trends easterly to northeasterly.

It includes jointing and associated lineations and folds. It has been suggested by Abbott (1984) after Gabrielse (1985) that the second and third phase structures are both related to the lateral transcurrent fault movement along the Kechika, Cassiar and Tintina fault zones. It is hypothesized that the stress field generated by these major faults could produce north west trending "synthetic shears" and easterly to north easterly trending "antithetic shears" as well as northerly trending extensional faults.

Mineralization

Several different types of mineral occurrences lie within the Rancheria district. These include quartz and carbonate veins containing galena, sphalerite, freibergite, tetrahedrite, pyrite and minor chalcopyrite in granite of the Cassiar Batholith and in Lower Cambrian sediments; replacement-type galena-sphalerite deposits with minor silver in the Lower Cambrian sediments; galena-sphalerite-bearing quartz veins in Carboniferous mylonite and quartzite; and tungsten-bearing skarns in roof pendants within the Cassiar Batholith.

Most of the silver-rich mineral occurrences in the district exhibit similar characteristics which suggest a common genesis. The presence of a siver-lead-zinc mineralization in quartz and carbonate veins appears to be controlled by three parameters:

(1) The presence of a group of rocks with relatively high background values in silver, lead and zinc (i.e. the Lower Cambrian sediments).

(2) Close proximity to the margin of the Cassiar Batholith.

(3) Northeast to east trending jointing and faulting accompanied by injection of hydrothermal solutions of approximately 50 Ma age.

A proposed genetic model for silver mineralization is as follows (after Boyle, 1965 and Lowey and Lowey, 1986):

(a) Early Cretaceous intrusion of the Cassiar Batholith and related bodies into the Lower Cambrian sediments which concentrates silver, lead and zinc along its margins (replacement-type deposits).

(b) Late Cretaceous-Early Tertiary dextral movement on large transcurrent faults such as Tintina, Kechika and Cassiar Faults results in the development of a northeast to east trending fracture system.

(c) Early Tertiary (50 Ma) volcanism and dyke emplacement related to transcurrent fault movement resulting in a rise of the geothermal gradient and convective heat flow.

(d) Hydrothermal solutions migrate along the northeast to east trending fractures in the now enriched granites and Lower Cambrian sediments and minerals precipitate in dilatant zones. Several phases of injection take place temporally related to the fracturing event and dyke emplacement.

Vein mineralogy typically consists of galena, sphalerite, pyrite and chalcopyrite with lesser amounts of arsenopyrite, freibergite, tetrahedrite and pyrrhotite. The galena is bladed or very fine grained, and commonly dendritic and occurs in parallel to oscillating bands of sulphide and gangue. Zinc is in bands only with tetrahedrite, giving a common association of freibergite with galena and tetrahedrite with sphalerite. The most common gangue minerals are quartz and siderite.

The vein-wallrock contact is generally sharp, indicating that the veins are fissure fillings. Alteration envelopes surrounding the veins range from nonexistent up to 30 metres wide and are of the carbonate rich "epithermal" type. Veins are sometimes intimately associated with a dark green andesitic dyke which appears to have intruded along the fractures before, during and possibly after the mineralized solutions. Weathered surfaces are almost always intensely manganese oxide stained, and retain only low silver values.

The replacement-type galena-sphalerite deposits with minor silver, the wolframite-cassiterite-bearing quartz veins, the galena-sphalerite-bearing quartz veins and the tungsten-bearing skarns in roof pendants all appear to be temporally associated with the intrusion of the Early Cretaceous Cassiar Batholith and related bodies and contain much less silver than the Early Tertiary veining event. The galena in these deposits has simple cubic structure, and forms coarse crystals. The zinc generally forms massive replacement pods with or without galena.

Property Geology

The TBMB claims are underlain by northwest striking Mississippian sediments which dip southwesterly at about -45° at the southern edge of the property steepening to near vertical at the northern edge. The strata are intruded to the southwest by the Seagull Batholith, and on the north part of the property by an older sill-like diorite intrusion which may be roughly contemporaneous with the Cassiar Batholith. A stock and two small plugs of alaskite and quartz monzonite intrude the strata near the property. Several faults with easterly and northeasterly strikes and minor left lateral displacement are recognized on the property and are likely to be related to the emplacement of silver-rich veins (figure 4).

Geological mapping of the property at 1:10 000 was carried out by Amax Potash Ltd. in 1978 and their work is the basis for the description of the property geology (Hodgson, 1978).

The Mississippian strata consist largely of thinly bedded blocky weathering siltstone and phyllitic siltstone (unit 8s). These strata commonly weather grey to weakly rusty, except a kilometre-wide zone on the property which displays intense rusty brown weathering. The rusty weathering may in part be attributable to the presence of disseminated pyrrhotite.

Fissile dark grey argillite and cherty argillite (unit 8a) form several mappable units up to 200 metres thick near the property.

Limestone (unit 81) forms a discontinuous unit up to 60 metres thick which may be traced in a southeasterly direction through the centre of the property. It is well exposed on a ridge east of trench No. 7, where it consists of a lower 80 metres of grey massive limestone overlain by 30 metres of less resistant buff silty dolomitic limestone. In the valley bottoms to the southeast and northwest this unit is much thinner, and is altered to skarn at the Bom and Munson prospects. Thick limestone units south and west of the property form large pendants within and adjacent to the Seagull Batholith.

Conglomerate (unit8c) forms a narrow unit exposed on a dip slope to the south of the property.

A distinctive 50 metre wide unit mapped as feldspathic tuff (unit 8t) outcrops to the north of the property. It is strongly foliated and is characterized by 2-4 mm quartz and feldspar augens. It weathers rusty and looks bleached on fresh surfaces.

Amphibolite (unit 8a) exposed to the south may be a skarn or may be an off-shoot of a large diorite intrusion to the north.

Skarn (unit 8k) occurs in limestone and silty limestone at several localities on and near the property. Characteristic minerals include garnet, diopside, epidote, axinite, magnetite, tourmaline, chalcopyrite, sphalerite, galena and scheelite.

Diorite (unit 14) to the north of the property forms a 12 kilometre long sill-like intrusion up to 1.7 kilometres wide. It is unfoliated, medium to coarse grained and uniformly textured except near its southern (upper) contact where a foliated, heterogeneous hybrid boarder phase with numerous sedimentary lenses is present. Diorite pre-dates the alaskite intrusions as it is truncated by the alaskite stock on Swift River.

Dykes of feldspar porphyry, hornblende lamprophyre and felsite are common in the diorite and occur rarely elsewhere on the property. Since they show close spatial association with the diorite, they are assumed to be genetically related to it.

The Seagull Batholith where exposed to the southwest of the property, consists of coarse grained, equigranular alaskite (unit 16) with 35% smoky quartz and 5% biotite. A fine to medium grained chilled margin is present within several hundred feet of the intrusive contact. Immediately adjacent to the chilled margin, the alaskite displays abundant large vugs (up to 250 mm diameter) and irregular veins and cavities filled with quartz, tourmaline and K-feldspar.

A stock, here named the Swift River Stock, of identical composition to the Seagull Batholith phase described above, underlies 5 square kilometres on the east of the property near the headwaters of Swift River.

Two small plugs of buff weathering, to the northeast (unit 16a), fine to medium grained, biotite quartz monzonite are present near the property. These plugs have tin and minor tungsten values associated with them and were the primary focus of the 1978 work by Amax Potash Ltd.

TBM B

MUNSON PROSPECT

Munson Creek

South Fork of Swift River

BOM PROSPECT

Limestone bedding

ROAD

105-B-3

LEGEND

CRETACEOUS

- 16 Alaskite: Seagull Creek Batholith, Swift River Stock.
- 16a Biotite quartz monzonite: East and West plugs.

JURASSIC?

- 14 Diorite, quartz diorite: (14h)- Hybrid gneissic diorite

MISSISSIPPIAN

- 8s Siltstone
- 8a Argillite, cherty argillite
- 8l Limestone
- 8c Conglomerate
- 8t Bleached feldspathic tuff
- 8k Skarn
- 8m Amphibolite (may be correlative with 14h)

- Outcrop
- Geological contact (defined, approximate, assumed)
- Fault (defined, approximate)
- Bedding (inclined, vertical)
- Quartz vein (inclined, vertical)
- Mineralized boulders
- Boundary of rusty oxidized zone
- DDH Diamond drill hole
- Trench

KILOMETRES 0 0.5 1

Property Geology
TBM B

Figure 5
Property Geology

Mineralization

The mineralization on the TBMB claims is of three styles:

1. Stratabound (probably of exhalative origin--see discussion)
2. Fracture filling
3. Scarn mineralization

Stratabound mineralization appears to me as being of depositional origin, exhaled into a basin through vents on the basin floor. The minerals are a typical VMS conglomeration of iron, copper, zinc, lead as well as VMS by-products such as tin, tungsten, cadmium, arsenic, bismuth, barium, etc. and gold and silver (see geo-chem line T7 crosscutting stratas).

Fracture filling mineralization consists mainly of pyrite, pyrrhotite, sphalerite, sometimes chalcopyrite and galena enriched in silver. All mineralized fractures that I have investigated are crosscutting stratas and display varying amounts of manganese staining. A common feature of these fracture fillings is a greenish matrix enclosing the mineralization, and can be found in fractures as far as 1 mile apart. This may indicate a common source of either hydrothermal origin or possibly injection out of a segregation chamber from underlying intrusive (see petrograph by Dr. Jeff Harris). Although the assays of the

mineralization in the fractures are quite encouraging, and the frequency of new discoveries in relation to mineralized fragments on surface is excellent, no fracture so far has yielded sufficient size for mining. Assays of some of the fracture mineralization are as follows:

SAMPLE	DESCRIPTION	AG OZ/T	PB %	ZN %	CU %
TBMB-S1	Highgrade galena/grab	29.4			
TBMB-TI-S5	Highgrade galena-zinc green matrix 1m chip	10.4	16.7	15.5	
T1-S9	Galena-zinc-chalcopyrite silicious	7.95	6.92	5.5	0.97
TBMB-T2-S1	Highgrade galena-zinc green matrix	8.78	22.8	21.5	

For further information (32 element specs) see attached assay sheets.

Platinum group elements were tested for, but not detected, on the TBMB. Platinum was detected to 97 ppb, on the Strata claims, 1/2 mile to the south.

Scarn mineralization has been identified throughout the general area of the Seagull intrusion, and the TBMB is no exception. The head of Munson creek displays scarn-mineralization consisting of heavy iron and manganese stained diopside rich rock with sphalerite, galena, pyrrhotite, some chalcopyrite and arsenopyrite. Mineralization is parallel to bedding striking about N 74° W and dipping about 50° S. The possibility of some of the scarn-mineralization to be a product of isochemical recrystallization, within the mississippian stratas under high heat, should not be ruled out.

Conclusion

The 1993 exploration season was successful in several aspects.

A close relationship between mineralized pieces of float on surface, and underlying source mineralization, can clearly be established by the 100% success rate of locating the source in close proximity. This seems to indicate that there has been no dispersion by a glacier on the property, and should be kept in mind to aid further exploration.

All crosscutting fractures trend southwest-northeast and all fractures have the same signature in their mineralization as well as gangue material. No great displacement of the stratas is evident on the property as is expressed by the straight line of the limestone-dolomite layer--our marker horizon. The force causing the fracturing did not persist for long or displacement would have taken place; therefore, I believe the fracturing to be caused by a single event, or a rapid progression of fracturing all of about the same age. If hydrothermal fluids were available to travel these fractures at the same time, mineralization could be related to the same source fluids and therefore, appear related. Injection from a common source may be another means of producing fracture fillings of the same composition. Detailed petrographic work is necessary to determine the source (see petrograph by Dr. Jeff Harris). The possibility of a large fracture, or a fracture swarm, striking parallel to the others cannot be ruled out and may be expected as the main stress-relief feature. If such a fracture, or fracture swarm, exists it may contain economic amounts of minerals.

The geo-chem line across the statas on the TBMB establishes a clear relationship between elevated gold values and arsenic, copper, silver and to some extent bismuth. The -80 mesh samples were taken from 10 metre

sections for a total of 560 meters to the southwest of the limestone dolomite band and 300 meters to the northeast. To the southwest a trench was cut with a D8H cat dozer to cut through the coarse talus to obtain silts. To the north east of the dolomite limestone band samples 1-30 were again obtained in 10 meter intervals, taking fines where available. Both directions from the limestone dolomite band show encouraging results of gold and silver in the soils as well as high iron values. The iron values are representing largely not easily recognized iron silicates or iron stone. Pyrites and pyrrhotites are present but do not account for values of 5%, 6% or 7% total iron content. Further work is planned for 1994 with the objective to expose bedrock along trench 7 to obtain chip samples along the 600' long elevated gold horizon.

No work is planned on the scarn mineralization at this time.

Discussion

About 3 miles to the east of the TBMB property lies the Dan showing discovered by Hudson Bay in 1946, later worked in 1969 by Boswell River Mines, and now owned by First Yukon Silver LTD. This showing has been excavated and washed to a length of 800' and approximately 150' width now known as the window. The sedimentary package exposed

is a mixture of exhalites, dusttuffs and hydrothermal eruption breccias of black shales which underlie the window.

The sediments have been spared regional tectonism and are perfectly preserved with their original depositional features such as soft sediment deformation, slump features of heavy brines into softer sediments, glide-features of gels on the basin floor and depositional tectonism as expressed by short faults truncated by volcanic dusttuffs from eruptions probably causing the depositional tectonism. Volcanic eruptions also seem to open vents of mineral plumes since mineralizing events are interlayered with dusttuffs. Metamorphism is extensive throughout the region, but here by heat only. In my opinion the sedimentary package was formed in a mississippian rifting environment and since the sediments contain dusttuffs of andesitic origin I would venture to guess that we are near an ancient subduction zone. The subduction zone would have to lie to the west to have blown the ashes from arc volcanoes with prevailing winds over the rift. The Teslin Suture may have been the site of an ancient subduction zone, now obliterated by the forming of the intermontane. Since the forming of the intermontane was a rifting event powered by reversing magmatic currents below, what better place for the crust to separate than at a weak spot such as

a scar from a previous subduction zone. We are located, with the TBMB and the window, approximately 50 miles inboard from the suture zone which puts us into the perfect position for a backarc basin.

When viewing the sediments in the window, it becomes very quickly evident that the interbeded mineralization of zinc, iron, some lead and copper is of syndepostional nature. The banding of minerals is not a metamorphic feature.

Between bands of minerals are fine layers of volcanic ash alternating with bands of probably exhaled calcium--and or--magnesium carbonate, pyrite, pyrrhotite and sphalerite. From this setting I can follow the activity of the hydrothermal vents on the basin floor and it appears that every sour exhalation of sulfides is followed by a basic exhalation of calcium or magnesium carbonate. On a larger scale we see limestone and dolomite horizons up to 100 feet thick as stratas that we can follow for miles. Stratas are now tilted and are easily followed along their edge over mountains and through valleys. Directly in contact with the limestone and dolomite, is a layer of sulphides that relates to the massive calcium and magnesium exhalation as a preceding sour event.

On the TBMB claims as well as on the Mod claims about 2 miles apart do we find sulphides of zinc, lead and iron

destruction of a subducting plate. Sulphides are a background feature to just about all stratas.

All by-product metals of a VMS deposit are represented in the general area such as tin, tungsten, lead, zinc, silver, gold, cadmium, barite, etc.

The general area of the Seagull Batholith should be explored for VMS deposits of the brinepool type as well as mounds proximal to vent locations. Known deposits such as the TBMB and Mod may be pathfinders to larger deposits since they indicate brine concentrations and possibly vent locations as expressed at the window by breccia plumes.

Precious metals are present as shown by geo-chem line T7. It should not be ruled out to find strata containing economic amounts of precious metals. Copper is present in small amounts throughout the sediments (see T7 assays). Some stratas contain banded zinc without lead. Some copper with the zinc, however, points at higher vent temperatures as are to be found at VMS sites at spreading centres elsewhere.

Exploration efforts in this area should reflect consideration for the possibility and probability of VMS deposits and their by-products in the area of exhaled sediments.

COST STATEMENT

The following are the exploration expenses for the 1993 season on the TBMB claims.

ASSAYS:
CHEMEX LABS LTD
VANCOUVER, BC

August 16	$ 43.07
August 17	62.11
August 20	76.13
November 18	671.21
November 18	155.04
November 18	33.44
November 18	107.54
November 22	82.82
November 22	8.61
November 22	37.29
November 25	916.78
Total assay expenses	$ 2,194.04

PETROGRAPH:
VANCOUVER PETROGRAPHICS LTD

August 31	$ 117.97

CONTRACT EXPENSES:
GRANT STEWART CONSTRUCTION

D8H cat dozer	
204 hours @ $140/hour	$28,560.00
GST 7%	1,999.20
Total	$30,559.20

WAGES:
JULY 1, 1993 - AUGUST 25, 1993

Hardy Hibbing	
45 days @ $150/day	$ 6,750.00
Pat Kostiuck	
10 days @ $150/day	1,500.00
Daily expenses	
45 days @ $52.85/day	2,378.25
Total Wages	$10,628.25

TOTAL ALL EXPENSES $43,499.46

APPENDIX

ASSAY CERTIFICATES

Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

Report for: Hardy Hibbing,
P.O. Box 547,
WATSON LAKE,
Yukon, Y0A 1C0

Job 930472

August 27th, 1993

SAMPLES:

One rock sample (un-numbered) was submitted for petrographic examination. The sample is strongly sulfidic, and was prepared as a polished thin section.

DESCRIPTION:

Estimated mode

Pyrite	70
Sphalerite	7
Galena	1
Pyrrhotite) Altered pyrrhotite)	1
Carbonate Chert)	14
Chlorite(?)) Clay(?))	7

This sample consists predominantly of an intergrowth of pyrite with accessory sphalerite and minor galena.

The pyrite has a grain size of 0.2 - 1.0mm, but is mostly aggregated as compact masses.

The sphalerite forms discrete pockets, 0.5mm to several mm in size, in the massive pyrite. It is a dark red-brown (Fe-rich) variety, often dusted with tiny (2 - 20 micron) included blebs of exsolved pyrrhotite.

The minor galena occurs as sporadic clusters of irregular, small segregations, 0.05 - 0 .5mm in size, in the sphalerite - or in the pyrite independent of sphalerite.

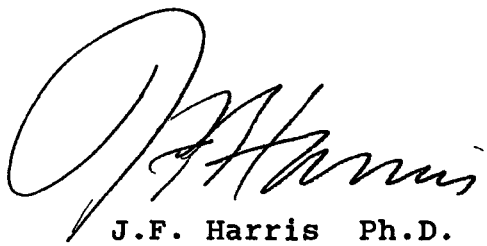
A minor component of pyrrhotite occurs sporadically, mainly on the contact of pyrite and the Pb/Zn minerals. It is largely altered to porous/platy secondary pyrite and marcasite.

A non-sulfide matrix component occurs throughout, in intimate permeating/cementing intergrowth with the sulfides, as more or less extensive, irregular patches - sometimes with inclusions of fine-grained sulfides - and as clusters of small pockets, 0.2 - 1.0mm in size, within the massive sulfides.

This material consists of feathery-textured carbonate (unreactive to dilute acid, and probably of dolomitic or ankeritic composition) with intergrown patches and networks of an accessory component which, in transmitted light, is colourless, and exhibits low birefringence and a minutely fine-grained felted/aggregate texture.

The identity of the latter mineral is uncertain. It could be cherty silica, a form of clay, or chlorite. Hardness determinations are ambiguous. An XRD scan over the low wavelength range showed no peaks of clay or chlorite, tending to support the probability that it is silica. However, the overall greenish colour in hand specimen is more suggestive of chlorite.

An assemblage of silica/dolomite (or, for that matter, dolomite with clay or chlorite) is consistent with gangue or altered wall rock of hydrothermal (possibly remobilized exhalative) origin.



J.F. Harris Ph.D.

(929-5867)

GRANT STEWART CONSTRUCTION LTD.

P.O. BOX 410 - WATSON LAKE, Y.T. - Y0A 1C0

Telephone (403) 536-7472

DATE: September 30, 1993

INVOICE: № 7942

CLIENT:

G.S.T. # R102176088

To: Hardy Hibbing
Box 547
Watson Lake, Yukon
Y0A 1C0

Accounts Due When Rendered. Service Charge On Overdue Accounts.

Date	Details	Charges	Credits	Balance
July - Aug. 1993	Assessment Work - #31 D8H - Trenching and Road Building -			
	204 Hours @ 140.00 per hour	$28,560.00		$28,560.00
	G.S.T. 7%	$1,999.20		$30,559.20

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

To Hardy Hibbing	From K. Pellitier
Co. Hibbing Cadd Adventures	Co. YTG
Dept. Head Honcho	Phone # 667-5996
Fax # 536-3975	Fax # 667-8601

Chemex Labs Ltd.

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

HIBBING, MR. HARDY **
BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments.

Page Number :1-A
Total Pages :2
Certificate Date: 20-NOV-93
Invoice No. :I9324775
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324775

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T-7-01	201	229	< 5	0.6	3.00	386	140	3.0	8	0.04	< 0.5	25	56	236	6.45	< 10	< 1	0.81	10	1.29	1800
T-7-02	201	229	20	2.0	2.39	390	110	3.0	16	0.06	0.5	41	40	241	5.61	< 10	< 1	0.53	10	0.95	2060
T-7-03	201	229	30	1.6	2.34	500	110	3.5	20	0.05	1.5	50	39	289	6.15	< 10	< 1	0.50	20	0.88	2450
T-7-04	201	229	25	1.8	2.01	456	90	3.0	26	0.08	3.5	48	35	302	6.16	< 10	< 1	0.34	20	0.71	2870
T-7-05	201	229	15	1.6	1.98	384	110	1.5	12	0.15	0.5	22	38	233	6.08	< 10	< 1	0.53	10	0.79	1400
T-7-06	201	229	20	1.8	2.23	352	120	1.5	14	0.11	0.5	27	40	242	6.27	< 10	< 1	0.51	10	0.82	1280
T-7-07	201	229	< 5	0.6	2.17	368	130	3.5	16	0.13	1.5	47	38	268	5.72	< 10	< 1	0.38	20	0.86	2350
T-7-08	201	229	< 5	0.6	1.68	290	100	3.5	8	0.13	2.5	38	29	217	4.18	< 10	< 1	0.28	20	0.63	2070
T-7-09	201	229	< 5	0.8	1.78	318	100	3.0	14	0.16	2.5	44	33	299	5.00	< 10	< 1	0.28	20	0.69	2890
T-7-10	201	229	15	0.6	1.80	458	90	2.0	16	0.13	2.0	55	35	247	4.89	< 10	< 1	0.29	20	0.69	2530
T-7-11	201	229	15	0.2	1.69	260	90	1.0	10	0.10	< 0.5	24	33	180	3.83	< 10	< 1	0.24	10	0.64	1110
T-7-12	201	229	< 5	0.2	1.58	104	100	1.0	6	0.15	1.5	17	27	85	2.68	< 10	< 1	0.20	10	0.59	885
T-7-13	201	229	< 5	0.2	1.83	148	130	1.5	6	0.18	2.0	26	31	150	3.12	< 10	< 1	0.25	10	0.66	1145
T-7-14	201	229	10	0.2	1.88	128	120	1.5	4	0.16	1.0	23	35	133	3.22	< 10	< 1	0.28	10	0.69	1135
T-7-15	201	229	< 5	0.2	1.46	116	100	1.0	4	0.14	1.5	19	27	102	2.67	< 10	< 1	0.18	10	0.57	915
T-7-16	201	229	< 5	0.2	1.80	124	120	1.5	6	0.13	1.0	24	34	147	3.10	< 10	< 1	0.24	10	0.66	925
T-7-17	201	229	< 5	0.2	1.90	120	110	1.0	4	0.14	0.5	23	34	120	3.18	< 10	< 1	0.22	10	0.68	860
T-7-18	201	229	10	0.4	1.94	170	100	1.5	8	0.12	0.5	26	35	189	3.58	< 10	< 1	0.23	10	0.70	965
T-7-19	201	229	< 5	0.6	2.12	136	110	1.5	6	0.13	0.5	23	39	135	3.52	< 10	< 1	0.24	10	0.75	1025
T-7-20	201	229	< 5	0.4	2.24	136	110	1.5	6	0.12	0.5	24	40	145	3.79	< 10	< 1	0.26	10	0.81	1100
T-7-21	201	229	< 5	0.4	2.06	156	130	2.0	8	0.09	1.0	23	36	152	3.66	< 10	< 1	0.21	10	0.75	1055
T-7-22	201	229	20	0.8	2.27	244	160	2.5	16	0.18	1.0	24	50	230	4.26	< 10	< 1	0.30	20	0.83	985
T-7-23	201	229	< 5	0.6	2.01	180	120	2.0	12	0.15	1.0	21	41	158	3.54	< 10	< 1	0.23	10	0.76	945
T-7-24	201	229	< 5	0.6	1.74	168	110	1.5	10	0.14	0.5	19	35	103	3.18	< 10	< 1	0.19	10	0.66	745
T-7-25	201	229	< 5	0.4	2.23	234	140	2.0	12	0.14	< 0.5	21	46	114	3.84	< 10	< 1	0.23	10	0.78	875
T-7-26	201	229	< 5	0.6	2.03	376	140	3.5	20	0.17	1.0	21	45	186	3.99	< 10	< 1	0.31	20	0.75	1015
T-7-27	201	229	< 5	1.2	1.99	550	150	3.0	26	0.16	0.5	22	43	216	4.56	< 10	< 1	0.37	10	0.78	1165
T-7-28	201	229	< 5	1.2	2.19	760	150	4.0	22	0.20	0.5	31	47	233	4.27	< 10	< 1	0.29	20	0.84	1340
T-7-29	201	229	10	1.8	2.27	826	180	4.5	30	0.19	< 0.5	31	43	272	5.02	< 10	< 1	0.34	20	0.87	1560
T-7-30	201	229	< 5	1.2	1.86	490	130	3.0	22	0.14	< 0.5	22	41	209	4.38	< 10	< 1	0.36	10	0.84	1070
T-7-31	201	229	< 5	0.8	1.81	600	160	2.0	22	0.11	< 0.5	15	48	228	4.28	< 10	< 1	0.50	10	0.91	615
T-7-32	201	229	< 5	1.4	2.01	632	200	3.5	26	0.08	1.5	22	48	313	5.34	< 10	< 1	0.57	10	0.90	735
T-7-33	201	229	< 5	1.2	2.00	490	210	4.0	30	0.08	3.0	24	40	388	5.84	< 10	< 1	0.59	10	0.84	695
T-7-34	201	229	< 5	1.4	2.27	458	230	4.0	28	0.07	2.0	25	41	405	5.69	< 10	< 1	0.61	10	0.93	735
T-7-35	201	229	< 5	1.8	2.16	700	230	2.5	32	0.10	0.5	16	47	314	5.13	< 10	< 1	0.68	10	0.96	580
T-7-36	201	229	15	2.4	2.19	694	240	3.0	30	0.10	1.0	15	48	334	5.03	< 10	< 1	0.71	10	0.95	540
T-7-37	201	229	40	2.4	2.59	1070	330	4.0	40	0.13	< 0.5	20	65	537	6.04	< 10	< 1	0.93	20	1.13	485
T-7-38	201	229	70	1.2	2.55	1320	330	4.0	44	0.07	0.5	15	67	584	6.66	< 10	< 1	0.88	20	1.02	385
T-7-39	201	229	30	1.2	2.22	718	280	3.0	28	0.09	< 0.5	10	52	329	5.45	< 10	< 1	0.84	10	0.95	325
T-7-40	201	229	25	1.8	2.09	998	300	3.0	38	0.06	< 0.5	11	49	358	5.71	< 10	< 1	0.81	10	0.85	315

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments.

Certificate Date: 20-NOV-93
Invoice No. : I9324775
P.O. Number :
Account : DBG

CERTIFICATE OF ANALYSIS A9324775

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T-7-01	201 229	4	0.01	29	700	204	2	8	9	0.13	< 10	< 10	86	< 10	490
T-7-02	201 229	3	< 0.01	37	880	446	2	8	10	0.08	< 10	< 10	68	< 10	766
T-7-03	201 229	4	< 0.01	46	950	482	< 2	8	11	0.08	< 10	< 10	67	< 10	1030
T-7-04	201 229	7	< 0.01	49	1140	486	2	8	7	0.06	< 10	< 10	68	< 10	1240
T-7-05	201 229	10	0.01	26	1750	416	4	8	13	0.07	< 10	< 10	98	< 10	566
T-7-06	201 229	6	0.01	34	1450	636	< 2	8	15	0.08	< 10	< 10	91	< 10	570
T-7-07	201 229	9	< 0.01	60	1260	194	4	7	11	0.07	< 10	< 10	84	< 10	722
T-7-08	201 229	4	< 0.01	55	840	240	< 2	6	12	0.06	< 10	< 10	54	< 10	774
T-7-09	201 229	11	< 0.01	72	1320	1235	< 2	6	13	0.07	< 10	< 10	71	< 10	698
T-7-10	201 229	11	< 0.01	56	1230	678	< 2	7	10	0.07	< 10	< 10	76	< 10	640
T-7-11	201 229	5	< 0.01	37	700	104	< 2	5	10	0.07	< 10	< 10	57	< 10	378
T-7-12	201 229	1	< 0.01	32	520	56	< 2	4	13	0.06	< 10	< 10	46	< 10	432
T-7-13	201 229	2	< 0.01	41	670	100	< 2	5	15	0.07	< 10	< 10	51	< 10	466
T-7-14	201 229	2	< 0.01	40	710	88	2	5	14	0.07	< 10	< 10	55	< 10	380
T-7-15	201 229	1	< 0.01	40	530	72	< 2	4	12	0.06	< 10	< 10	44	< 10	346
T-7-16	201 229	2	< 0.01	39	650	94	< 2	5	12	0.07	< 10	< 10	56	< 10	368
T-7-17	201 229	2	< 0.01	42	660	94	2	4	12	0.07	< 10	< 10	55	< 10	396
T-7-18	201 229	4	< 0.01	45	720	178	< 2	5	10	0.07	< 10	< 10	61	< 10	502
T-7-19	201 229	2	< 0.01	40	690	172	< 2	5	12	0.08	< 10	< 10	61	< 10	480
T-7-20	201 229	3	< 0.01	42	690	174	2	6	13	0.08	< 10	< 10	66	< 10	504
T-7-21	201 229	2	< 0.01	43	610	110	2	6	11	0.07	< 10	< 10	63	< 10	486
T-7-22	201 229	3	< 0.01	53	770	142	2	6	22	0.06	< 10	< 10	73	< 10	688
T-7-23	201 229	2	< 0.01	45	620	98	2	5	14	0.07	< 10	< 10	63	< 10	524
T-7-24	201 229	2	< 0.01	38	540	82	< 2	4	12	0.07	< 10	< 10	54	< 10	442
T-7-25	201 229	2	< 0.01	40	660	86	2	5	13	0.08	< 10	< 10	70	< 10	444
T-7-26	201 229	4	< 0.01	47	810	114	2	6	13	0.08	< 10	< 10	72	< 10	668
T-7-27	201 229	14	< 0.01	36	1170	106	4	6	10	0.07	< 10	< 10	80	< 10	590
T-7-28	201 229	4	< 0.01	55	900	160	4	7	18	0.08	< 10	< 10	73	< 10	666
T-7-29	201 229	15	< 0.01	44	1090	154	2	7	22	0.06	< 10	< 10	77	< 10	632
T-7-30	201 229	11	< 0.01	34	1080	76	4	6	10	0.06	< 10	< 10	76	< 10	608
T-7-31	201 229	5	< 0.01	28	990	44	4	6	8	0.07	< 10	< 10	82	< 10	580
T-7-32	201 229	4	< 0.01	29	1100	66	2	7	10	0.07	< 10	< 10	81	< 10	786
T-7-33	201 229	4	< 0.01	27	1110	70	4	7	12	0.06	< 10	< 10	78	< 10	910
T-7-34	201 229	4	< 0.01	29	1100	64	4	8	11	0.07	< 10	< 10	79	< 10	928
T-7-35	201 229	3	< 0.01	25	950	44	4	7	10	0.08	< 10	< 10	79	< 10	592
T-7-36	201 229	3	< 0.01	24	940	112	2	7	10	0.08	< 10	< 10	79	< 10	816
T-7-37	201 229	6	0.01	34	1190	40	4	9	14	0.10	< 10	< 10	105	< 10	494
T-7-38	201 229	7	0.01	30	1090	38	4	8	15	0.09	< 10	< 10	107	< 10	492
T-7-39	201 229	4	0.01	24	1030	24	6	7	10	0.08	< 10	< 10	91	10	376
T-7-40	201 229	4	0.01	24	910	24	2	7	11	0.08	< 10	< 10	87	10	352

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

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

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 20-NOV-93
Invoice No. :19324775
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324775

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T-7-41	201	229	35	2.4	2.35	1020	280	3.5	48	0.09	0.5	16	58	465	6.66	< 10	< 1	0.73	20	0.94	395
T-7-42	201	229	30	2.8	2.05	748	220	2.5	40	0.13	< 0.5	16	47	373	5.69	< 10	< 1	0.57	10	0.83	400
T-7-43	201	229	20	1.6	2.14	538	220	2.0	24	0.16	< 0.5	16	46	337	5.34	< 10	< 1	0.62	10	0.94	535
T-7-44	201	229	45	2.6	2.35	660	210	3.5	34	0.18	< 0.5	29	52	463	5.66	< 10	< 1	0.53	20	0.94	860
T-7-45	201	229	25	1.8	2.55	622	200	4.5	38	0.25	< 0.5	28	56	376	5.24	< 10	< 1	0.60	20	1.06	865
T-7-46	201	229	40	0.8	2.80	602	180	5.0	36	0.35	< 0.5	29	61	322	4.57	< 10	< 1	0.53	20	1.08	855
T-7-47	201	229	30	0.2	2.74	560	180	4.5	32	0.40	< 0.5	29	71	298	4.03	< 10	< 1	0.47	20	1.00	690
T-7-48	201	229	25	2.0	3.13	558	190	5.0	38	0.53	< 0.5	36	83	357	4.89	< 10	< 1	0.57	20	1.06	700
T-7-49	201	229	30	1.0	3.65	748	190	6.5	48	0.66	0.5	43	91	491	6.06	< 10	< 1	0.68	30	1.15	760
T-7-50	201	229	30	0.8	3.44	634	220	5.5	36	0.48	< 0.5	39	84	408	5.78	< 10	< 1	0.62	20	1.15	820
T-7-51	201	229	45	0.2	3.36	668	460	5.0	28	0.31	< 0.5	52	77	439	4.71	< 10	< 1	0.87	20	1.45	970
T-7-52	201	229	40	1.2	3.00	486	240	5.0	20	0.31	1.0	42	67	377	5.71	< 10	< 1	0.46	30	1.28	2270
T-7-53	201	229	30	1.4	3.04	418	330	4.5	24	0.36	1.5	55	73	345	6.13	< 10	< 1	0.70	20	1.25	1500
T-7-54	201	229	10	1.8	2.62	226	260	2.5	18	0.28	1.0	31	76	241	5.70	< 10	< 1	0.68	20	1.15	1070
T-7-55	201	229	< 5	0.8	2.51	160	260	2.0	14	0.24	0.5	23	75	200	5.22	< 10	< 1	0.76	10	1.12	920
T-7-56	201	229	< 5	1.0	2.66	186	210	2.0	12	0.30	0.5	23	63	163	4.58	< 10	< 1	0.67	20	1.02	725

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave , North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 20-NOV-93
Invoice No. :I9324775
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324775

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T-7-41	201	229	7	< 0.01	33	1110	56	8	8	16	0.08	< 10	< 10	102	< 10	448
T-7-42	201	229	4	< 0.01	31	890	64	10	7	15	0.06	< 10	< 10	85	< 10	366
T-7-43	201	229	3	< 0.01	34	810	76	6	6	16	0.06	< 10	< 10	79	< 10	356
T-7-44	201	229	3	0.01	53	1100	124	8	7	23	0.06	< 10	< 10	86	10	544
T-7-45	201	229	3	0.01	53	1010	84	6	7	26	0.07	< 10	< 10	89	30	484
T-7-46	201	229	2	0.01	64	980	82	6	7	37	0.09	< 10	< 10	89	60	448
T-7-47	201	229	2	0.01	78	870	62	4	7	42	0.09	< 10	< 10	83	80	368
T-7-48	201	229	2	0.01	91	1240	104	4	7	73	0.09	< 10	< 10	97	70	516
T-7-49	201	229	4	0.02	107	1460	70	6	8	113	0.10	< 10	< 10	111	80	668
T-7-50	201	229	5	0.02	83	1350	88	6	8	83	0.10	< 10	< 10	111	60	550
T-7-51	201	229	4	0.01	130	740	44	2	9	74	0.08	< 10	< 10	103	70	488
T-7-52	201	229	7	< 0.01	96	1100	304	6	8	33	0.04	< 10	< 10	118	20	722
T-7-53	201	229	4	0.01	99	1370	280	8	9	74	0.09	< 10	< 10	118	10	834
T-7-54	201	229	4	0.01	69	1390	192	6	8	44	0.07	< 10	< 10	113	< 10	564
T-7-55	201	229	3	0.01	51	1180	136	6	8	43	0.08	< 10	< 10	110	< 10	466
T-7-56	201	229	2	0.02	46	1010	110	4	7	52	0.09	< 10	< 10	85	30	486

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 18-NOV-93
Invoice No. :I9324596
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324596

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
01	201	229	< 5	< 0.2	1.31	< 2	540	< 0.5	< 2	12.50	1.5	12	101	19	2.21	< 10	< 1	0.24	< 10	8.91	1360
02	201	229	< 5	0.2	3.05	12	170	< 0.5	< 2	6.63	1.5	20	127	40	3.01	< 10	< 1	0.29	10	6.16	565
03	201	229	< 5	1.8	3.95	94	200	1.5	< 2	0.76	13.0	21	66	63	5.50	20	< 1	0.32	30	1.37	2400
04	201	229	< 5	0.2	3.73	38	150	1.0	< 2	0.67	1.0	31	98	61	4.27	10	< 1	0.44	30	1.43	550
05	201	229	< 5	0.4	3.65	138	100	0.5	< 2	0.84	0.5	31	96	83	4.57	20	< 1	0.52	60	1.36	365
06	201	229	< 5	< 0.2	3.62	106	180	1.0	< 2	0.83	0.5	30	81	63	4.50	20	< 1	0.54	50	1.36	515
07	201	229	< 5	0.2	3.55	18	140	1.0	< 2	0.88	1.5	27	42	69	4.41	10	< 1	0.54	30	1.00	495
08	201	229	< 5	0.6	4.10	24	140	1.0	< 2	1.18	2.0	28	40	67	4.01	20	< 1	0.37	40	0.83	625
09	201	229	45	0.2	4.47	38	120	1.5	< 2	1.05	2.5	28	83	60	3.86	20	< 1	0.50	40	1.28	540
10	201	229	15	< 0.2	4.10	14	120	0.5	< 2	0.99	2.0	25	42	69	4.34	20	< 1	0.74	40	1.04	380
11	201	229	255	0.4	4.28	36	140	1.0	< 2	1.35	0.5	21	54	55	3.48	20	< 1	0.37	40	0.88	475
12	201	229	< 5	0.2	4.39	34	190	1.0	< 2	0.94	2.0	28	57	64	4.21	20	< 1	0.50	40	1.06	615
13	201	229	25	0.6	3.85	8	340	2.5	< 2	0.92	13.0	20	48	45	5.30	20	< 1	0.31	40	1.05	2680
14	201	229	10	0.6	5.17	32	400	3.0	< 2	1.08	7.5	19	72	41	6.30	20	< 1	0.38	70	1.59	2770
15	201	229	< 5	1.4	4.70	16	350	2.5	< 2	1.28	11.0	24	88	61	4.58	20	< 1	0.51	50	1.39	1335
16	201	229	< 5	0.6	5.01	12	440	2.0	< 2	1.08	4.5	34	130	103	5.50	10	< 1	0.52	10	1.84	995
17	201	229	< 5	2.0	4.05	16	320	2.0	< 2	1.12	12.0	23	79	61	4.32	10	< 1	0.42	40	1.24	1365
18	201	229	< 5	0.6	4.23	30	370	1.0	< 2	1.26	3.5	29	96	113	4.69	10	< 1	0.43	20	1.51	800
19	201	229	25	0.4	2.93	78	80	< 0.5	< 2	0.96	0.5	15	58	238	10.75	10	< 1	0.18	10	0.55	190
20	201	229	10	1.8	4.18	132	90	< 0.5	< 2	1.22	1.5	28	48	349	9.91	10	< 1	0.19	10	0.63	440
21	201	229	20	3.0	2.90	52	70	< 0.5	8	1.24	6.5	29	36	250	7.98	10	< 1	0.28	10	0.80	1020
22	201	229	< 5	1.2	4.93	20	100	1.0	< 2	1.47	3.0	34	60	140	5.18	20	< 1	0.50	30	1.77	685
23	201	229	< 5	0.6	6.19	62	130	1.0	< 2	0.98	1.0	53	188	113	5.66	20	< 1	0.98	40	2.47	540
24	201	229	< 5	1.6	4.29	38	140	2.5	< 2	0.74	6.0	33	51	129	6.02	20	< 1	0.42	30	1.42	1355
25	201	229	< 5	0.6	3.98	60	170	1.0	< 2	0.75	1.5	28	44	111	4.81	20	< 1	0.45	40	1.07	715
26	201	229	< 5	0.4	3.55	82	240	0.5	4	0.86	2.0	35	54	107	4.28	10	< 1	0.42	20	0.98	635
27	201	229	< 5	0.2	3.27	50	360	0.5	< 2	0.47	1.0	27	66	145	5.23	10	< 1	0.62	20	1.32	505
28	201	229	< 5	0.4	3.28	22	560	< 0.5	< 2	0.33	0.5	25	66	183	6.23	10	< 1	0.66	30	1.22	520
29	201	229	< 5	0.4	2.90	26	520	< 0.5	2	0.25	< 0.5	15	60	166	5.87	10	< 1	0.63	30	1.02	420
30	201	229	< 5	1.0	3.42	< 2	550	0.5	4	0.26	1.5	18	69	179	6.20	10	< 1	0.76	40	1.25	530
ST-01	201	229	< 5	0.6	2.04	360	70	< 0.5	4	0.19	< 0.5	30	37	233	7.64	10	< 1	0.22	10	0.90	2070
ST-02	201	229	< 5	0.6	1.74	1135	70	0.5	48	0.09	< 0.5	34	32	212	6.76	10	< 1	0.28	10	0.68	1670
ST-03	201	229	40	3.4	1.98	1140	80	1.0	24	0.13	2.5	79	30	306	7.85	10	< 1	0.27	20	0.70	3960
ST-04	201	229	15	1.0	2.25	552	70	1.0	14	0.17	2.0	62	53	302	7.26	10	< 1	0.24	10	0.85	4830
ST-05	201	229	45	13.2	0.98	838	40	< 0.5	54	0.04	1.0	22	21	189	7.47	< 10	< 1	0.12	< 10	0.36	2240
ST-06	201	229	40	4.4	0.62	736	20	< 0.5	48	0.03	0.5	18	12	149	3.84	< 10	< 1	0.05	< 10	0.23	1440
ST-07	201	229	35	3.0	1.90	680	70	0.5	38	0.13	1.0	28	45	202	5.70	10	< 1	0.26	10	0.75	2090
ST-08	201	229	20	2.0	2.73	236	110	2.0	8	0.22	1.5	37	49	270	6.25	10	< 1	0.38	20	1.10	2450
ST-09	201	229	25	1.6	2.94	328	140	3.0	14	0.36	4.0	49	55	310	6.79	10	< 1	0.32	40	1.21	2700
ST-10	201	229	< 5	0.8	2.25	174	120	1.0	2	0.18	1.5	38	34	243	5.41	10	< 1	0.29	20	1.05	2650

CERTIFICATION: Hart Bichler

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

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 18-NOV-93
Invoice No. :I9324596
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324596

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
01	201 229	1	0.01	43	1310	14	< 2	2	253	0.05	< 10	< 10	38	20	454
02	201 229	1	0.06	54	1300	30	4	4	90	0.10	< 10	< 10	50	30	232
03	201 229	< 1	0.01	31	720	676	< 2	8	175	0.06	< 10	< 10	61	30	3770
04	201 229	1	0.02	60	910	84	< 2	7	115	0.14	< 10	< 10	75	20	692
05	201 229	1	0.02	70	1010	32	6	7	124	0.11	< 10	< 10	65	20	340
06	201 229	< 1	0.02	57	1310	40	6	8	197	0.08	< 10	< 10	66	20	326
07	201 229	< 1	0.01	36	930	46	2	6	171	0.06	< 10	< 10	50	20	494
08	201 229	< 1	0.03	40	710	76	4	6	194	0.06	< 10	< 10	44	20	822
09	201 229	< 1	0.04	68	1040	62	2	6	166	0.13	< 10	< 10	60	20	1345
10	201 229	1	0.04	49	820	24	< 2	6	163	0.08	< 10	< 10	41	20	884
11	201 229	< 1	0.02	44	910	54	< 2	6	155	0.07	< 10	< 10	44	20	532
12	201 229	< 1	0.02	60	1140	74	< 2	6	159	0.11	< 10	< 10	55	20	810
13	201 229	< 1	0.01	35	980	230	2	8	145	0.09	< 10	< 10	56	30	3080
14	201 229	< 1	0.03	34	990	210	< 2	10	150	0.10	< 10	< 10	69	40	2650
15	201 229	< 1	0.04	42	800	516	< 2	9	168	0.08	< 10	< 10	63	20	2550
16	201 229	< 1	0.02	89	1280	538	< 2	10	150	0.17	< 10	< 10	127	30	2380
17	201 229	< 1	0.04	40	700	644	< 2	7	151	0.06	< 10	< 10	55	20	2950
18	201 229	< 1	0.03	68	1010	310	< 2	9	157	0.16	< 10	< 10	103	30	1220
19	201 229	7	0.03	50	1710	70	2	5	56	0.09	< 10	< 10	92	30	362
20	201 229	7	0.02	53	1600	148	< 2	6	63	0.13	< 10	< 10	82	40	1140
21	201 229	1	0.02	34	990	284	4	6	59	0.09	< 10	< 10	43	30	2120
22	201 229	< 1	0.03	54	780	126	< 2	8	88	0.07	< 10	< 10	55	30	1035
23	201 229	< 1	0.05	94	1080	56	6	13	125	0.09	< 10	< 10	84	30	544
24	201 229	< 1	0.02	47	830	292	< 2	8	81	0.10	< 10	< 10	61	30	2840
25	201 229	1	0.02	51	1230	128	< 2	6	108	0.08	< 10	< 10	60	20	1100
26	201 229	3	0.02	67	1380	88	2	6	136	0.06	< 10	< 10	93	10	504
27	201 229	7	0.03	72	1260	46	2	7	130	0.06	< 10	< 10	130	20	282
28	201 229	10	0.05	80	1490	50	< 2	7	191	0.07	< 10	< 10	140	20	338
29	201 229	12	0.06	54	1510	60	< 2	6	157	0.07	< 10	< 10	138	10	286
30	201 229	14	0.07	68	1610	78	< 2	7	217	0.08	< 10	< 10	159	20	394
ST-01	201 229	13	< 0.01	39	1520	82	2	6	8	0.06	< 10	< 10	99	30	302
ST-02	201 229	8	< 0.01	17	1480	150	4	6	6	0.06	< 10	< 10	76	30	264
ST-03	201 229	6	< 0.01	44	1260	474	2	7	6	0.05	< 10	< 10	67	50	1170
ST-04	201 229	10	< 0.01	66	2230	218	4	9	6	0.05	< 10	10	153	30	694
ST-05	201 229	3	< 0.01	19	880	2310	6	4	2	0.02	< 10	< 10	55	30	702
ST-06	201 229	1	< 0.01	18	330	584	2	3	1	0.01	< 10	< 10	25	20	416
ST-07	201 229	7	< 0.01	32	1000	518	< 2	7	6	0.06	< 10	< 10	77	20	678
ST-08	201 229	11	< 0.01	66	1710	200	2	8	12	0.08	< 10	< 10	107	20	666
ST-09	201 229	9	< 0.01	86	1790	378	2	11	12	0.04	< 10	< 10	116	20	1170
ST-10	201 229	7	< 0.01	66	1120	90	< 2	7	9	0.06	< 10	< 10	81	20	534

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 18-NOV-93
Invoice No. :I9324596
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Account :DBG

CERTIFICATE OF ANALYSIS A9324596

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
ST-11	201	229	< 5	1.2	2.57	220	100	1.0	6	0.21	1.0	31	42	172	5.64	10	< 1	0.28	20	0.87	2120

CERTIFICATION: Hart Bichler

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CERTIFICATE OF ANALYSIS A9324596

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
ST-11	201	229	9	< 0.01	45	1200	134	4	6	27	0.06	< 10	< 10	108	20	452

CERTIFICATION: Hart Bichler

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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Y0A 1C0

Project :
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CERTIFICATE OF ANALYSIS A9324781

SAMPLE	PREP CODE		Au oz/T	Pt oz/T	Pd oz/T	Rh oz/T						
T-7-A	208	274	0.001	< 0.002	< 0.002	< 0.001						
T-7-B	208	274	< 0.001	< 0.002	< 0.002	< 0.001						
T-7-C	208	274	< 0.001	< 0.002	< 0.002	< 0.001						
T-7-D	208	274	0.001	< 0.002	< 0.002	< 0.001						
T-7-E	208	274	< 0.001	< 0.002	< 0.002	< 0.001						
T-7-F	208	274	< 0.001	< 0.002	< 0.002	< 0.001						

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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

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Total Pages :1
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CERTIFICATE OF ANALYSIS A9324597

SAMPLE	PREP CODE		Au oz/T	Pt oz/T	Pd oz/T	Rh oz/T						
2-1	201	--	< 0.001	< 0.002	< 0.002	< 0.001						
2-2	201	--	< 0.001	< 0.002	< 0.002	< 0.001						
2-3	201	--	< 0.001	< 0.002	< 0.002	< 0.001						
2-4	201	--	< 0.001	< 0.002	< 0.002	< 0.001						
2-5	201	--	< 0.001	< 0.002	< 0.002	< 0.001						

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CERTIFICATE OF ANALYSIS A9324598

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
2-1	299	229	0.8	3.80	176	210	< 0.5	< 2	0.54	2.0	30	77	164	6.02	10	< 1	0.58	20	1.15	1115	8
2-2	299	229	0.6	3.58	136	150	0.5	< 2	0.32	2.5	41	49	196	6.17	10	< 1	0.45	20	0.97	1480	6
2-3	299	229	0.6	3.17	102	120	0.5	< 2	0.26	1.5	35	48	212	6.39	10	< 1	0.47	20	0.90	1375	8
2-4	299	229	0.6	3.32	60	90	< 0.5	< 2	0.22	0.5	22	46	221	7.06	10	< 1	0.38	20	0.80	1120	7
2-5	299	229	1.4	2.77	160	110	< 0.5	< 2	0.11	1.5	41	42	204	7.70	10	< 1	0.43	20	0.83	1850	13

CERTIFICATION: Hart Bichler

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Page :1-B
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
2-1	299	229	0.02	52	1500	194	< 2	7	109	0.09	< 10	< 10	88	20	594
2-2	299	229	0.01	68	1070	234	2	7	100	0.07	< 10	< 10	77	20	810
2-3	299	229	0.01	68	950	78	2	6	67	0.06	< 10	< 10	76	10	498
2-4	299	229	0.01	43	1200	206	6	7	62	0.05	< 10	< 10	67	20	348
2-5	299	229	0.01	42	1740	204	2	7	59	0.07	< 10	< 10	96	10	562

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Page I :1
Total Pages :1
Certificate Date: 20-NOV-93
Invoice No. :I9324782
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324782

SAMPLE	PREP CODE		Au oz/T	Cu %	Pb %	Zn %	Ag oz/T					
T1-89	208	274	0.010	0.97	6.92	5.50	7.95					

CERTIFICATION: A Smith

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BOX 547
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Y0A 1C0

Project :
Comments:

Page No. :1
Total Pages :1
Certificate Date: 18-AUG-93
Invoice No. :I9318823
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9318823

SAMPLE	PREP CODE		Au oz/T	Ag oz/T	Pb %	Zn %						
TBMB-S1	208	274	-----	29.4	-----	-----						
TBMB-T1-S5	208	274	0.010	10.40	16.70	15.50						
TBMB-T2-S1	208	274	< 0.002	8.78	22.8	21.5						

CERTIFICATION: Said Zeinab

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BOX 547
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Y0A 1C0

Project :
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 20-NOV-93
Invoice No. :I9324783
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324783

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
T1-S9	299	233	>200	0.98	322	< 10	< 0.5	8	0.63	>100.0	27	103	>10000	12.30	< 10	< 1	0.02	10	1.27	3100	< 1

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Y0A 1C0

Project :
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 20-NOV-93
Invoice No. :I9324783
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324783

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T1-S9	299	233	< 0.01	15	180	>10000	62	3	9	< 0.01	< 10	< 10	14	< 10	>10000

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BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Page No. :1-A
Total Pages :1
Certificate Date: 16-AUG-93
Invoice No. :I9318822
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9318822

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TBMB-T1-S6	205	274	185	1.2	4.29	36	30	< 0.5	< 2	1.10	< 0.5	163	80	722	11.50	10	< 1	1.48	< 10	2.65	3400
TBMB-T1-S7	205	274	25	11.4	0.53	6	< 10	< 0.5	< 2	0.18	7.0	16	82	1015	>15.00	< 10	< 1	0.01	< 10	0.72	1210
TBMB-T6-S1	205	274	190	< 0.2	0.54	16	70	4.0	< 2	0.20	< 0.5	18	53	594	12.25	< 10	< 1	0.44	< 10	>15.00	1995

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BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 16-AUG-93
Invoice No. :I9318822
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9318822

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TBMB-T1-S6	205	274	< 1	0.04	124	5040	< 2	2	18	45	0.15	< 10	< 10	191	20	262
TBMB-T1-S7	205	274	< 1	< 0.01	5	200	988	6	3	1	< 0.01	< 10	< 10	11	< 10	2250
TBMB-T6-S1	205	274	< 1	0.01	15	380	6	4	2	1	0.03	< 10	< 10	13	70	356

CERTIFICATION: Jan Buchler

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BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Page No. :1-A
Total Pages :1
Certificate Date: 09-AUG-93
Invoice No. : I9318034
P.O. Number :
Account : DBG

CERTIFICATE OF ANALYSIS A9318034

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
TEMB-T1-S1	299	233	1.0	0.59	4	70	< 0.5	< 2	0.03	1.0	8	176	34	1.36	< 10	< 1	0.09	< 10	0.32	1335	< 1
TEMB-T1-S2	299	233	32.0	0.34	762	10	< 0.5	< 2	0.04	6.5	12	55	729	>15.00	< 10	< 1	< 0.01	< 10	0.09	225	8
TEMB-T1-S3	299	233	>200	3.33	14	10	3.5	24	0.13	>100.0	44	11	901	>15.00	20	< 1	< 0.01	< 10	2.04	4330	< 1
TEMB-T1-S4	299	233	182.5	3.62	28	10	3.0	30	0.27	>100.0	37	14	1240	>15.00	10	< 1	< 0.01	10	2.33	6080	< 1
TEMB-T5-S1	299	233	62.8	1.11	316	10	1.5	18	0.36	>100.0	22	24	1125	>15.00	< 10	< 1	< 0.01	10	1.15	5160	< 1

CERTIFICATION: Hart Bichler

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HIBBING, MR. HARDY **

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

Certificate Date: 09-AUG-93
Invoice No. :I9318034
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9318034

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TBMB-T1-S1	299	233	0.01	18	110	22	< 2	2	2	0.01	10	< 10	14	< 10	200
TBMB-T1-S2	299	233	0.01	9	280	3660	2	2	3	< 0.01	< 10	< 10	< 1	< 10	1610
TBMB-T1-S3	299	233	0.01	19	380	>10000	< 2	6	2	< 0.01	< 10	< 10	37	< 10	>10000
TBMB-T1-S4	299	233	< 0.01	8	320	>10000	6	6	4	< 0.01	< 10	< 10	34	< 10	>10000
TBMB-T5-S1	299	233	0.01	41	200	>10000	< 2	6	5	< 0.01	< 10	< 10	48	< 10	>10000

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BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

Project :
Comments:

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Total Pages :1
Certificate Date: 20-NOV-93
Invoice No. :I9324780
P.O. Number :
Account :DBG

CERTIFICATE OF ANALYSIS A9324780

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T1-S8	205	274	95	16.0	0.48	170	< 10	< 0.5	< 2	0.05	209	12	92	78	>15.00	< 10	< 1	0.02	< 10	0.13	7000
B-M	205	274	35	3.0	0.57	12	10	< 0.5	230	0.13	0.5	5	1	66	>15.00	< 10	1	< 0.01	< 10	3.48	940
B-L	205	274	15	0.6	4.38	2	80	1.0	2	4.48	36.5	47	54	165	4.51	< 10	< 1	0.13	< 10	0.39	355
TAN	205	274	10	96.2	0.56	30	< 10	2.0	6	0.37	26.5	2	252	2570	1.54	< 10	< 1	0.20	50	0.04	75

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BOX 547
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Y0A 1C0

Project :
Comments:

Certificate Date: 20-NOV-93
Invoice No. : I9324780
P.O. Number :
Account : DBG

CERTIFICATE OF ANALYSIS A9324780

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T1-S8	205	274	1	< 0.01	3	20	1690	< 2	2	< 1	< 0.01	60	< 10	6	< 10	>10000
B-M	205	274	< 1	< 0.01	1	< 10	< 2	< 2	2	2	0.01	80	< 10	30	30	288
B-L	205	274	< 1	0.15	75	2440	18	< 2	3	194	0.52	< 10	< 10	68	< 10	6370
TAN	205	274	16	0.02	4	80	328	34	< 1	3	0.03	< 10	< 10	4	10	2020

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HIBBING, MR. HARDY

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

INVOICE NUMBER I9318034

BILLING INFORMATION

Date: 16-AUG-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9318034

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	299 - Pulp; prepped on other workorder	0.00		
	ICP-32 High grade scan	8.05	8.05	40.25

Total Cost $ 40.25
(Reg# R100938885) GST $ 2.82

TOTAL PAYABLE (CDN) $ 43.07

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HIBBING, MR. HARDY

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

INVOICE NUMBER I 9 3 1 8 8 2 2

BILLING INFORMATION

Date: 17-AUG-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9318822

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	205 - Geochem ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	ICP-32	6.25		
	100 - Au ppb FA+AA	7.95	19.35	58.05

Total Cost $ 58.05
(Reg# R100938885) GST $ 4.06

TOTAL PAYABLE (CDN) $ 62.11

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HIBBING, MR. HARDY

BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

INVOICE NUMBER I9318823

BILLING INFORMATION

Date: 20-AUG-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9318823

Terms: Payment due on receipt of invoice
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Please Remit Payments to:

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	208 - Assay ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	385 - Ag oz/T	3.70	8.85	8.85
2	208 - Assay ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	Ag,Pb,Zn assay package	16.50		
	398 - Au oz/T	9.50	31.15	62.30

Total Cost $	71.15
(Reg# R100938885) GST $	4.98
TOTAL PAYABLE (CDN) $	**76.13**

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INVOICE NUMBER I 9 3 2 4 5 9 6

BILLING INFORMATION

Date: 18-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324596

Terms: Payment due on receipt of invoice
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Please Remit Payments to:

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North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
41	201 - Dry, sieve to -80 mesh	1.10		
	ICP-32	6.25		
	100 - Au ppb FA+AA	7.95	15.30	627.30

Total Cost $	627.30
(Reg# R100938885) GST $	43.91
TOTAL PAYABLE (CDN) $	**671.21**

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INVOICE NUMBER I 9 3 2 4 7 8 1

BILLING INFORMATION

Date: 18-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324781

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	208 - Assay ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	G-44 Au,Pt,Pd,Rh Package	19.00	24.15	144.90

Total Cost $	144.90
(Reg# R100938885) GST $	10.14
TOTAL PAYABLE (CDN) $	**155.04**

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BOX 547
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INVOICE NUMBER I 9 3 2 4 5 9 8

BILLING INFORMATION

Date: 18-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324598

Terms: Payment due on receipt of invoice
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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	299 - Pulp; prepped on other workorder	0.00		
	ICP-32	6.25	6.25	31.25

Total Cost $	31.25
(Reg# R100938885) GST $	2.19
TOTAL PAYABLE (CDN) $	**33.44**

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Y0A 1C0

INVOICE NUMBER I 9 3 2 4 5 9 7

BILLING INFORMATION

Date: 18-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on Certificate A9324597

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	201 - Dry, sieve to -80 mesh	1.10		
	G-44 Au,Pt,Pd,Rh Package	19.00	20.10	100.50

Total Cost $ 100.50
(Reg# R100938885) GST $ 7.04

TOTAL PAYABLE (CDN) $ 107.54

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BOX 547
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Y0A 1C0

INVOICE NUMBER I9324780

BILLING INFORMATION

Date: 22-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324780

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	205 - Geochem ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	ICP-32	6.25		
	100 - Au ppb FA+AA	7.95	19.35	77.40
			Total Cost $	77.40
	(Reg# R100938885)		GST $	5.42
			TOTAL PAYABLE (CDN) $	**82.82**

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Y0A 1C0

INVOICE NUMBER I 9 3 2 4 7 8 3

BILLING INFORMATION

Date: 22-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324783

Terms: Payment due on receipt of invoice
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charged on overdue accounts

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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	299 - Pulp; prepped on other workorder	0.00		
	ICP-32 High grade scan	8.05	8.05	8.05

Total Cost $ 8.05
(Reg# R100938885) GST $ 0.56

TOTAL PAYABLE (CDN) $ 8.61

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WATSON LAKE, Y. T.
Y0A 1C0

INVOICE NUMBER I 9 3 2 4 7 8 2

BILLING INFORMATION

Date: 22-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing. For analysis performed on
Certificate A9324782

Terms: Payment due on receipt of invoice
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charged on overdue accounts

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	208 - Assay ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	Ag,Cu,Pb,Zn package	20.20		
	398 - Au oz/T	9.50	34.85	34.85

Total Cost $	34.85
(Reg# R100938885) GST $	2.44
TOTAL PAYABLE (CDN) $	**37.29**

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BOX 547
WATSON LAKE, Y. T.
Y0A 1C0

INVOICE NUMBER I 9 3 2 4 7 7 5

BILLING INFORMATION

Date: 25-NOV-93
Project:
P.O. No.:
Account: DBG

Comments:

Billing: For analysis performed on
Certificate A9324775

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
56	201 - Dry, sieve to -80 mesh	1.10		
	ICP-32	6.25		
	100 - Au ppb FA+AA	7.95	15.30	856.80

Total Cost $ 856.80
(Reg# R100938885) GST $ 59.98

TOTAL PAYABLE (CDN) $ 916.78

Vancouver Petrographics Ltd.
8080 Glover Road
Langley, B.C. V3A 4P9
(604) 888-1323 Fax (604) 888-3642

INVOICE

GST # R105484687 No. 930472

SALESPERSON	DATE OF INVOICE
	Aug 31,93

SHIP TO

TO:

Hardy Hibbing
Box 547
Watson Lake, YT
Y0A 1C0

ACCOUNT NO.	DATE SHIPPED	SHIPPED VIA	COL	P.P	F.O.B. POINT	TERMS	YOUR ORDER NUMBER
	August	mail		x	Ft. Langley	Net 30 days	H Hibbing

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Polished thin section	22.00	22.00
1	off-cut	0.75	0.75
1	k-spar stain	1.50	1.50
	Report by Jeff Harris		75.00
	reflected light exam		10.00
	mail		1.00
	G.S.T. (7%)		7.72
	Thank You	TOTAL	117.97

YOUR COMPLETE GEOLOGICAL SERVICE & SUPPLY COMPANY

REMARKS: