Geochemical Report on the KARL 1-50 Claims (YC12794-YC12843)

NTS 116B/03
Latitude 64° 07' N
Longitude 139° 06' W

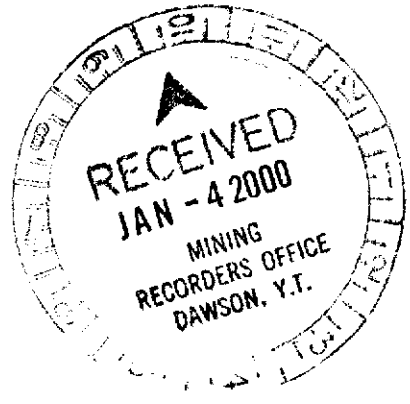
094066

Dawson Mining District
Yukon Territory

Prepared for Tr'ondek Hwech' in and Chief Isaac Incorporated

by Prospex Geological Enterprises

submitted December 30, 1999



This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 9600.00 .

M. Burk

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

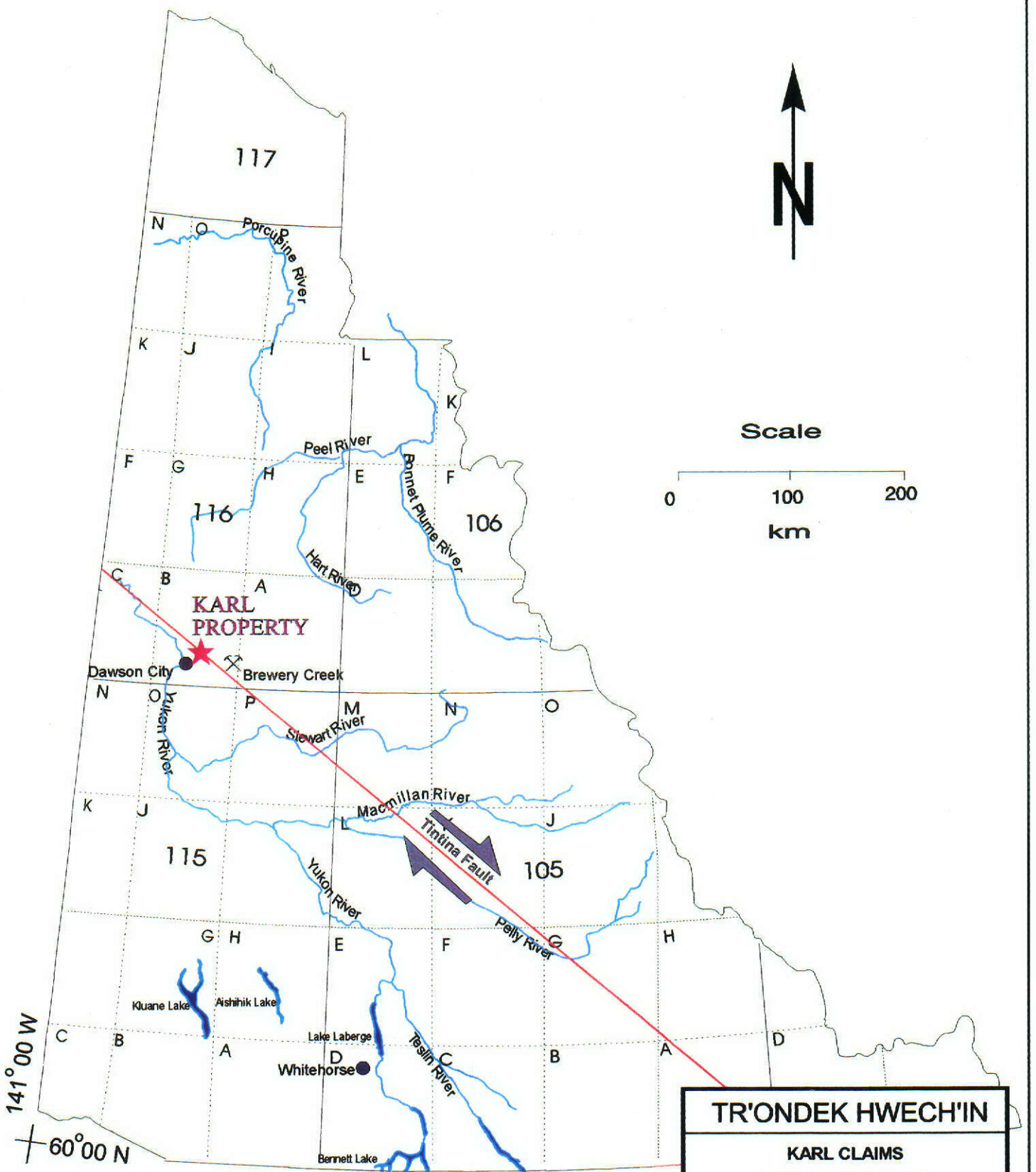
SUMMARY

The Karl property of the Tr'ondek Hwech'in nation is situated on the northeast side of Lepine Creek, 17 kilometres northeast of Dawson City, Yukon. The east half of the property is overlain by a thick blanket of unconsolidated glacial and alluvial material. The west half of the property consists of low-lying ridges covered by colluvium overtop residual soil and bedrock.

Lode prospecting in the early 1900's focused on Ruiter and Fysh creeks, both located upstream of the Karl claim block. Limited work has been done in this area since then, but no previous work is reported on the Karl property.

A geochemical sampling program was undertaken in 1999 to try and identify potential mineralization on the claims. Results from dense stream sampling of the property identify a possible gold source upstream of the claims, possibly around the Ruiter Creek area. Stream samples taken on the property were anomalous in gold path-finder elements such as mercury, arsenic and tungsten, but did not return anomalous gold values. Soil sampling identified the source for the stream sample anomalies on the property. Soil samples that are spatially related to a black graphitic horizon returned highly anomalous values in mercury.

Elevated copper and molybdenum values are also associated with the graphitic horizon. These elements suggest mineralizing fluids associated with intrusion-related porphyry style minerlization. No intrusive units were recognized on the property, but quartz-porphyry dikes are mapped to the northwest. The region to the northwest, particularly the ridges around Ruiter Creek, should be prospected.



TR'ONDEK HWECH'IN

KARL CLAIMS

LOCATION MAP

YUKON TERRITORY, CANADA

Date: Dec. 07, 1999	Author: FJA	NTS 116B/03
File: karl_loc.cdr		Figure 1

094066

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1.0 INTRODUCTION

This report provides an economic evaluation of the Karl 1-50 (YC12794-YC12843) claims located in the Dawson Mining District, Yukon. The information is based on research and fieldwork conducted in 1999 by Prospex Geological Enterprises of Whitehorse, Yukon. The fieldwork comprised a soil and stream geochemical survey conducted on September 25th and September 26th, 1999.

1.1 Location and Access

The property is located on NTS map 116B/03 and is centered at latitude 64° 07' north and longitude 139° 06' west. The Karl claim block is 17 kilometers northeast of Dawson City and is located on Lepine Creek, a southeast flowing tributary of Rock Creek. Rock Creek forms the east boundary of the block. The west boundary is 200 metres downstream from Bradley Creek, the first right limit tributary to Lepine Creek. Figure 2 shows the claim block relative to Dawson City.

Access to the property in 1999 was via helicopter. Old trails and fire fighting roads approach the west boundary of the claim block. The property may be accessed by all terrain vehicle from these roads or alternatively along a trail following Rock Creek from its confluence with the Klondike River. Crossing the Klondike River is required in the latter case.

1.2 Physiography and Climate

The Karl claim block is situated on the northeast side of Lepine Creek. The east half of the property is swampy and covered by a large, hummocky fan of mixed glacial, glaciofluvial and alluvial material. The west half of the property covers a southeast trending ridge composed of colluvium overtop residual soil and bedrock. Saddles along this ridge contain unconsolidated sand to a depth of one metre. Loess is found covering the property except on steep slopes.

Elevation ranges from 450 metres in the southeast corner of the claim block to 630 metres in the northwest corner of the claims. The whole property is below treeline.

Low precipitation and a wide temperature range characterize the climate. Winters are cold and temperatures of –40°C are common. Summers are moderately cool with daily highs of 10°C to 25°C. The seasonal window for prospecting is from the middle of June to late September.

MOOSEHIDE CREEK
INDIAN RESERVE 2B

RÉSERVE INDIENNE
MOOSEHIDE CREEK 2B

KLONDIKE HILLS

YUKON PLATEAU

589 000 E

7 110 000 N

KARL CLAIMS

Dawson

West Dawson

Moosehide

Sister Island

Dog Island

MIDNIGHT DOME

KLONDIKE RIVER

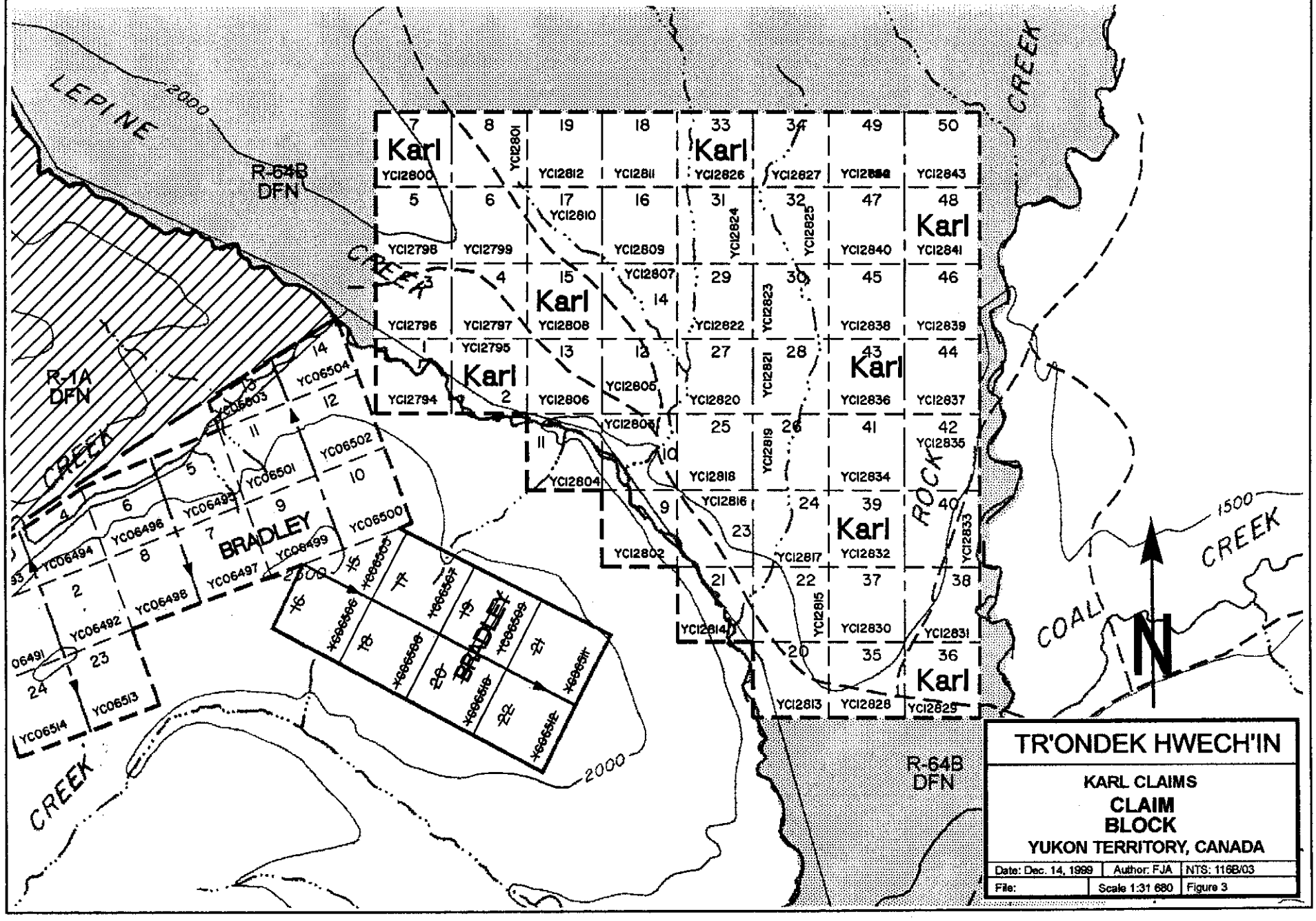
YUKON RIVER

N

TR'ONDEK HWECH'IN

KARL CLAIMS
CLAIM LOCATION
YUKON TERRITORY, CANADA

Date: Dec. 14, 1999	Author: FJA	NTS: 116B/03
File:	Scale 1:50 000	Figure 2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R-64B
DFN
CREEK
ROCK
CREEK
R-1A
DFN
CREEK
BRADLEY
BRADLEY
2000
2000
1500
CREEK
COALI
N
R-64B
DFN
Karl
Karl
Karl
Karl
Karl
Karl
YCI2800
YCI2801
YCI2812
YCI2811
YCI2826
YCI2827
YCI2842
YCI2843
YCI2798
YCI2799
YCI2810
YCI2809
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YC06499
YC06500
YC06501
YC06502
YC06503
YC06504
YC06491
YC06492
YC06513
YC06514
TR'ONDEK HWECH'IN
KARL CLAIMS
CLAIM
BLOCK
YUKON TERRITORY, CANADA
Date: Dec. 14, 1999
Author: FJA
NTS: 116B/03
File:
Scale 1:31 680
Figure 3

1.3 Claim Data

The Karl 1-50 quartz claims are located in the Dawson Mining District and are registered to the Tr'ondek Hwech'in nation. The claim block is plotted on Northern Affairs Quartz map 116B/03.

Table 1. List of Claims

Claim Name	Grant Numbers	Expiry Date	Renewal to*
Karl 1-46	YC12794-YC12839	October 09, 1999	October 09, 2001
Karl 47-50	YC12840-YC12843	October 09, 1999	October 09, 2000

*Pending approval of this report

Figure 3 shows the claim names and grant numbers.

1.4 History and Previous Work

There is no record of previous work having been done on the existing claim block, but the Lepine Creek region was intensely prospected for lode gold during the Klondike Goldrush. By 1914, prospectors had excavated more than 230 open-cuts, shafts and pits in the region. There was a ½ mile tramway built on the south slope of Ruiter Creek to bring material down from the Great Eastern quartz claim to a small cyanide treatment plant. Ruiter Creek is a right limit tributary to Lepine Creek, located 2.5 kilometers upstream of the claims. Material taken in 1904 from another claim located where Fysh Creek joins Lepine Creek reportedly ran 6.8 grams/tonne gold. Fysh Creek is a left-limit tributary to Lepine Creek located 3 kilometres upstream of the property (Archer-Cathro, 1986).

During the 1980's, various parties returned to the area and conducted limited soil, stream, and rock geochemical surveys as well as VLF-EM and magnetometer surveys. A rock sample taken in 1991 from the ridge between Ruiter and Bradley creeks returned 1300ppb gold (Lueck, 1992). The area where this sample was collected is now part of the Tron'dek Hwech'in R1A lands.

In 1991 the federal government published the results of a regional stream geochemical survey for the Dawson map area. Tributaries to Lepine, but not Lepine Creek itself, were sampled. The only anomalous tributary in the drainage system is Bradley Creek, the right limit tributary located immediately upstream of the claims. This anomaly was staked with the Bradley 1-14 claims, which elapsed in November 1999.

The federal government flew an aerial geophysical magnetic survey over the Dawson region in 1965, but the unconsolidated glacial and alluvial fill in the Tintina Trench valley masks the geophysical signals. To the west of the claims, the contact of the Klondike Schist is delineated at the 1:250 000 scale. At the 1: 63 360 scale, a northeast trending linear can be delineated along the ridge between Bradley and Shovel creeks.

2.0 1999 WORK PROGRAM

One day of stream sampling and one day of soil sampling was conducted on the Karl claim block. Personnel on the property were geologist Farrell Andersen, geological technician Bruce Bark and prospector Allan Anderson.

The property was stream sampled at seven points to locate potential mineralization on or adjacent to the property. Sample sites were chosen so any mineralization found could be pinpointed to a restricted drainage area. Stream samples involved collecting approximately 2.5 kilograms of –2mm sieved streambed material and analysing the conventional –80 mesh fraction plus the very fine -250 mesh fraction. When obtainable, material at the sample site was also panned into a concentrate to check for visible gold and tungsten minerals.

Soil samples were taken along two traverses where there was likely to be residual soil. Approximately 500 grams of material was collected by shovel or soil auger at depths ranging from 0.2 to 1.4 metres. Locations were flagged and distances were measured using thread-chain. Coordinates for the starts and ends of traverses were determined in the field with hand-held GPS units. Sample spacing averaged 100 metres and notes about each sample were written in the field.

Traverse LC01 covered the northeast slope of Lepine Creek with 23 samples. Traverse LC02 covered the southwest slope of Lepine Creek with 22 samples, including one duplicate. To keep on the claims, traverse LC02 was done at the toe of the slope on the southwest side of Lepine Creek. Loess and gravel contaminated samples along this traverse.

3.0 GEOLOGY

3.1 Regional Geology

Regionally the property is on the south edge of the Tintina Trench, a northwest trending strike-slip fault that separates the Yukon into ancient North American rocks to the north and accreted rocks to the south. The Tombstone Thrust fault, a large regional fault within ancient North America, also terminates in the vicinity of the property. The geology is poorly understood and all geology maps published show that the property is covered by Quarternary glacial and fluvial sediments. From previous work northwest of the property and from mapping soil pits on the property, the underlying bedrock is believed to be composed of rocks belonging to the Klondike Schist series of the Yukon Tanana Terrane.

Unfoliated quartz-porphyry dikes have been mapped in the region but none were located while traversing the property. Decomposed material of the porphyry dike and its surrounding country rock formed the ore that was trammed to the cyanide plant on Ruiter Creek (McConnell, 1903).

3.2 Property Geology

No outcrop was located along the traverses but three rock types can be differentiated from soil pits. The three types are a rusty weathering quartz-sericite schist, a black to dark grey graphitic schist/phyllite and a foliated pale green to grey brown siltstone. The graphitic schist and siltstone were predominant, with the quartz sericite schist appearing only at the 1000, 1600 and 2200 stations on traverse LC01.

Trace pyrite was seen in greenstone float when stream sampling but no other mineralization was noted. Rock exposure was not adequate to determine any alteration.

4.0 EXPLORATION RESULTS (FIGURE 4)

4.1 Stream Geochemistry

Stream sample LCSS01 was collected from Rock Creek to identify background element values for the gravel mix covering the property. The sample was taken from the stream bank just above the water. It did not carry any anomalous or distinctive elements.

Samples LCSS02 to LCSS06 came from the property, with numbers 03, 04 and 06 from Lepine Creek itself. The fine-fraction of sample LCSS06 returned some interesting results. This sample came from Lepine Creek along the west edge of the property and contained anomalous mercury (460ppb), plus elevated silver and lead values. When compared to the control sample LCSS01, sample LCSS04 also contained anomalous mercury (320ppb) plus elevated antimony, lead, arsenic and tungsten.

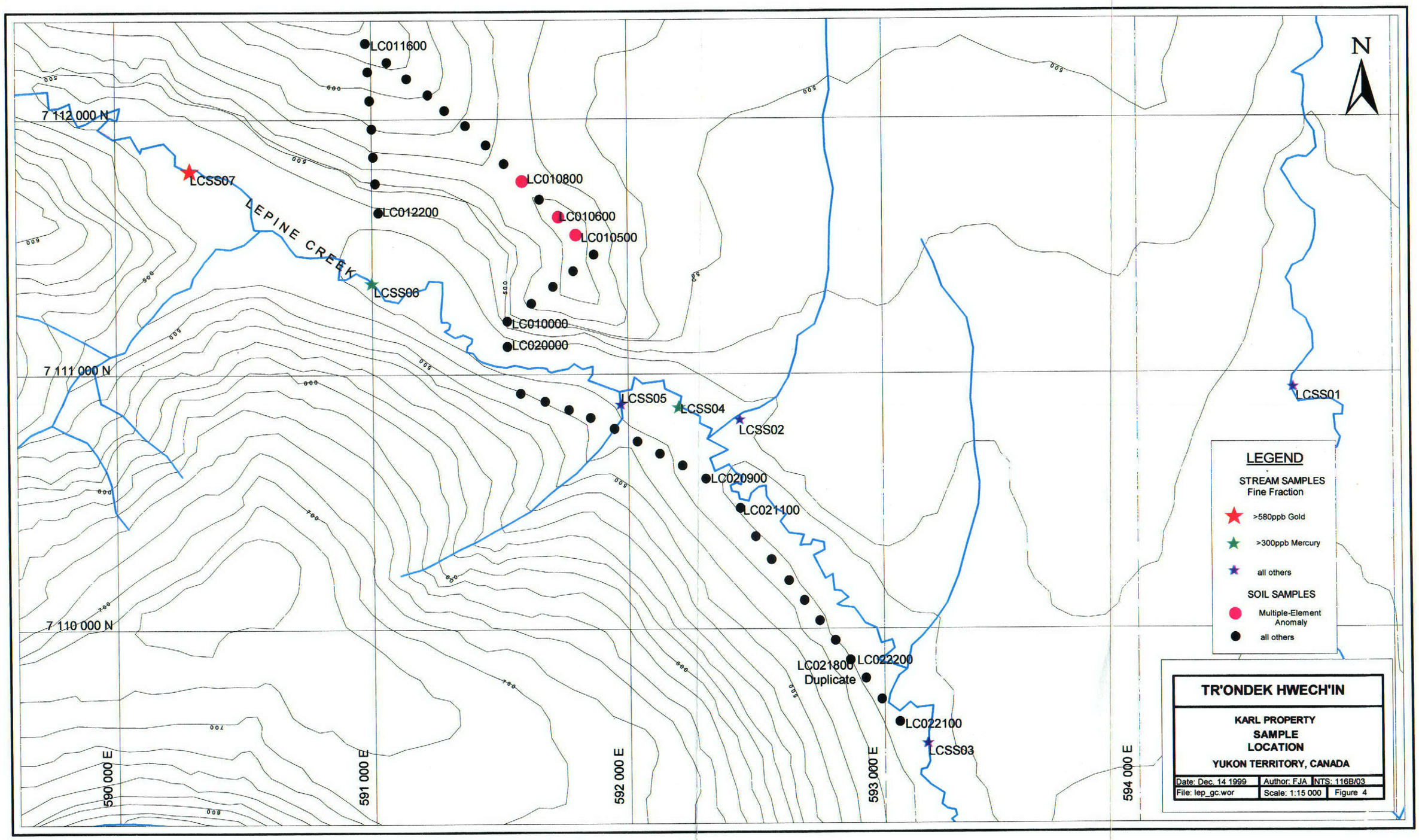
Sample LCSS07 came from Lepine Creek, upstream of Bradley Creek where the federal government's anomalous stream sample was collected. The location for sample LCSS07 was not influenced in any way by the Bradley Creek anomaly. This sample returned a high gold anomaly in the fine-fraction (580ppb gold) and suggests an upstream source for gold mineralization, possibly in the Ruiter Creek region. Table 2 compares elements from selected stream samples to the elements in control sample LCSS01.

Table 2: Element Values for Selected Stream Samples, Fine-Fraction

Sample ID	Au ppb	Ag ppm	As ppm	Hg ppb	Pb ppm	Sb ppb	W ppb
LCSS01	<5	0.14	4.8	120	10	0.6	200
LCSS04	10	0.32	15.4	320	24	1.0	850
LCSS06	10	0.62	12.0	480	30	0.8	200
LCSS07	580	0.18	14.0	90	20	0.5	300

Panned material from stream sample sites LCSS02, 04 and 07 was collected to check for tungsten and visible gold. None was detected in the panned concentrates.

Stream samples were shipped to Chemex Labs in Vancouver and the –80+250 mesh and the –250 mesh fractions were analysed for gold by 30-gram FA/AAS and 36 other elements by ICP-MS techniques.


N
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7 111 000 N
7 110 000 N
590 000 E
591 000 E
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593 000 E
594 000 E
LC011600
LC010800
LC012200
LC010600
LC010500
LC010000
LC020000
LC020900
LC021100
LC021800
Duplicate
LC022200
LC022100
LCSS07
LCSS06
LCSS05
LCSS04
LCSS02
LCSS01
LCSS03
LEPINE CREEK
LEGEND
STREAM SAMPLES
Fine Fraction
>580ppb Gold
>300ppb Mercury
all others
SOIL SAMPLES
Multiple-Element Anomaly
all others
TR'ONDEK HWECH'IN
KARL PROPERTY
SAMPLE LOCATION
YUKON TERRITORY, CANADA
Date: Dec. 14 1999
Author: FJA
NTS: 116B/03
File: lep_gc.wor
Scale: 1:15 000
Figure 4

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4.2 Soil Geochemistry

Forty-five soil samples were collected from the Karl claims, including one duplicate (LC022200, a duplicate of LC021800). The highest gold value obtained in soils was 20ppb (LC011100). There were two soil samples that returned anomalies in multiple elements. Though neither LC010500 and 0600 has gold, the two samples showed anomalies in arsenic, copper, mercury, silver, molybdenum, lead and zinc. Sample LC010500 came from the graphite schist and LC010600 came from the dark grey phyllite. Sample LC010800, also taken from the dark gray phyllite, returned anomalous arsenic, mercury and antimony. Other samples anomalous in one or more of copper, mercury, molybdenum, silver, and arsenic are spatially associated with the graphitic horizon. Selected samples and element values are listed in table 3.

Table 3: Multiple-Element Anomalies in Soil Samples

Sample ID	Ag ppm	As ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
LC010500	3.8	68	155	960	39	144	2	378
LC010600	4.2	72	293	3010	37	644	2	736
LC010800	0.8	108	46	480	17	44	6	98

Soil samples were shipped to Chemex Labs in Vancouver and the –150 mesh fraction analysed for gold using 30-gram FA-AAS, for mercury by AAS and 32 other elements by ICP-AES techniques.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results from the 1999 geochemical sampling, the Karl claim block shows low potential for economic mineralization. A large portion of the property is covered by overburden and this overburden renders conventional soil sampling ineffective. Air-photo interpretation would assist in locating outcrop and identifying structure, as well as outline regions where overburden would be too thick for conventional soil sampling.

Soil samples LC010500 and LC010600 returned multiple-element anomalies and are spatially associated with a graphitic schist horizon. The graphitic unit may act as a trap site for mineralizing fluids and could serve as a marker horizon for tracing mineralization within the region.

The sample values from traverse LC02 are flat because of contamination by surface material. Sample quality was poor for samples along this traverse because of their proximity to the Lepine Creek floodplain.

Stream samples LCSS04 and LCSS06, though not anomalous in gold, were anomalous in gold-pathfinder elements such as mercury, arsenic, antimony and tungsten. These two samples were collected from Lepine Creek within the claim block, and it can be concluded the values reflect the dark grey phyllite and graphite schist units.

Stream sample LCSS07 returned 580ppb gold in the fine-fraction analysis. This sample was collected from Lepine Creek upstream of the property and indicates a potential gold source northwest of the property. If a cut-off could be defined using the government RGS data and LCSS07, it would place the possible source of the gold as the ridge between Bradley and Ruiter creeks. This region is now part of the Tr'ondek Hwech'in nation R1A lands.

The elements found in the soil samples and stream samples taken from the Karl property indicate the mineralizing fluids are associated with intrusion-related porphyry style mineralization. No intrusive units were noted on the property, but quartz-porphyry dikes are mapped to the northwest.

Based on these conclusions, prospecting of the ridges around Ruiter Creek and Bradley Creek is warranted. Previous work helps vector in on the area to sample and prospect. The source for the government stream sample on Bradley Creek is not identified and the ridge shared by Bradley Creek and Shovel Creek should also be prospected. A fault is interpreted trending northeast along this ridge and may be a potential source for the anomaly.

6.0 REFERENCES

Geology, Southwestern Dawson Map Area, Yukon,
1:250 000 scale map. Geological Survey of Canada, Open File 1927.

Lueck, B., 1992. Assessment Report for the Great Eastern 1-4 and Easton 1-10 Claims in the Dawson Mining District. R. Trusswell, Assessment Report 093022.

Magnetic Survey, Dawson Map Area, Yukon, 1:250 000 scale map. Geological Survey of Canada, Map 7868-G.

Magnetic Survey, Dawson Map Area, Yukon, 1:63 360 scale map. Geological Survey of Canada, Map 4310-G.

McConnell, R.G., 1903. Report on the Klondike Goldfields, part B, Geological Survey of Canada Annual Report volume xiv, 1905.

Mortenson, J.K., 1986. Assessment Report for the KLEP 1-16 Claims, Dawson Mining District. Archer, Cathro and Associates Limited, Assessment Report 091564.

Regional Stream Sediment and Water Geochemical Data, West-Central Yukon. Geological Survey of Canada, Open File 2365.

Surficial Geology, Dawson Map Area, Yukon, 1:250 000 scale map. Geological Survey of Canada, Open File 3288.

7.0 STATEMENT OF QUALIFICATIONS

I, Farrell Andersen, with business address:

Prospex Geological Enterprises
901 Fir Street
Whitehorse, Yukon
Y1A 4B7

And residential address in Whitehorse, Yukon, do hereby certify that:

1. I am the proprietor of Prospex Geological Enterprises.

2. I am a 1989 graduate of the University of British Columbia with a B.Sc. degree in geology.

3. I have been involved in geology and mineral exploration continuously since 1985.

4. I am the author of this report on the Karl 1-50 claims that are located in the Dawson Mining District, Yukon..

5. This report is based on personal examination of the ground between September 24 to September 28, 1999, and research conducted from December 6 to 15, 1999.

Farrell Andersen, B.Sc.

8.0 STATEMENT of 1999 EXPENDITURES

Geochemistry

Sample Type	No.	$/Sample	Subtotal	
Soil	45	25.41	1143.83	
Stream	7	65.35	457.45	
				$1601.28

Personnel

F. Andersen, Sept. 24 and Sept. 27; 2days @$375/day:	750.00	
B. Bark, Sept. 24 and Sept. 27; 2days @$350/day:	700.00	
A. Anderson, Sept. 24 and Sept. 27; 2days @$175/day:	350.00	
		1800.00

Support Costs

Food and Accommodation	312.50
Helicopter	2368.73
Radios	56.18
Shipping	157.42
Supplies	133.24
Vehicle	250.00

Report

Data Compilation, Research and Report Generation	2950.00

Total 1999 Expenditures **$9629.35**

Appendix A: Analytical Techniques

The following geochemical procedures are referenced from the Chemex website www.chemex.com

Sample Preparation

Soil samples were dried, manually disaggregated, then sieved to obtain the -150 mesh (106 microns) fraction. This fraction was then analyzed for gold by the standard 30-gram fire assay method. Plasma emission spectroscopy was used to analyze for another 33 elements. A flameless absorption spectrometry method was used to obtain a low detection limit for mercury. The –80+150 mesh fraction is saved and stored.

Stream samples were wet sieved to obtain the –250 mesh (63 microns) fine fraction. They were then dried, manually disaggregated and sieved to obtain the –80+250 mesh fraction. These two fractions were analyzed using standard 30gram fire-assay (one assay ton) for gold and ICP-MS for 36 elements. The +80 mesh fraction is saved and stored.

Gold by Fire Assay / Atomic Absorption Spectroscopy (FA-AAS)

A 30g sample is fused with neutral lead-oxide flux inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead. These beads are digested in 0.5ml concentrated nitric acid for 30 minutes, then 1.5 ml of concentrated hydrochloric acid is added and the mixture is digested for 1 hour. The samples are cooled, diluted to a final volume of 5ml, homogenized and then analyzed by atomic absorption spectroscopy. Detection and upper limits are 5 and 10,000ppb respectively.

Plasma-Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (1.0g) is digested with concentrated nitric and aqua-regia acids at medium heat for two hours. The solution is diluted to 25ml with demineralized water, mixed and introduced into the core of an inductively-coupled argon plasma (ICP) at a temperature of approximately 8000 deg. C. At this temperature all elements become thermally excited and emit light at their characteristic wavelengths. This light is collected by the spectrometer and passes through a diffraction grating that serves to resolve the light into a spectrum of its constituent wavelengths. Within the spectrometer, this diffracted light is then collected by wavelength and amplified to yield an intensity measurement that can be converted to an elemental concentration by comparison with calibration standards. The analytical results are corrected for spectral inter-element interference. This measurement process is a form of atomic emission spectroscopy (AES).

Plasma-Mass Spectrometry (ICP-MS)

In plasma mass spectroscopy, the inductively-coupled argon plasma (ICP) is once again used as an excitation source for the elements of interest. However in contrast to plasma emission spectroscopy, the plasma in ICP-MS is used to generate ions, which are then introduced to the mass spectrometer. These ions are then separated and collected according to their mass to charge ratios. The constituents of an unknown sample can then be identified and measured. ICP-MS offers extremely high sensitivity for many elements and can also be successfully applied to a wide range of elements.

Flameless Atomic Absorption Spectroscopy (AAS)

In atomic absorption spectroscopy, an element in its atomic form is introduced into a light beam of appropriate wavelength causing the atom to absorb light (atomic absorption) and enter an excited state. At the same time there is a reduction in the intensity of the light beam and this can be measured and directly correlated with the concentration of the elemental atomic species. Comparing the light absorbency of the unknown sample with the light absorbency of known calibration standards does this. This method is usually done with a flame but for mercury an absorption cell is used instead. Mercury can be reduced to its elemental state by reaction with stannous chloride and then be volatilized by purging with air and swept into the absorption cell that the light beam is passed.

Appendix B: Stream Sample Results

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CHIEF ISAAC INCORPORATED **

P.O. BOX 599
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: FARELL ANDERSON

Page Number :1-A
Total Pages :2
Certificate Date: 19-OCT-1999
Invoice No. :19930533
P.O. Number :
Account :RLB

CERTIFICATE OF ANALYSIS A9930533

SAMPLE	PREP CODE	Au ppb FA+AA	Al %	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	B ppm	Cd ppm	Ca %	Cr ppm	Co ppm	Cu ppm	Ga ppm	Ge ppm	Fe %	La ppm	Pb ppm	Mg %
LCSS01-80+250	201 --	< 5	1.05	0.7	8.0	150	0.50	0.14	< 10	0.32	0.28	33	10.6	23.4	2.8	< 0.1	2.33	10	10	0.44
LCSS01 -250	254 --	< 5	1.17	0.6	4.8	170	0.35	0.14	< 10	0.30	0.32	29	10.0	21.4	3.2	< 0.1	1.84	10	10	0.45
LCSS02+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS02-80+250	201 --	< 5	0.80	0.4	12.2	270	0.25	0.13	< 10	0.28	0.53	16	10.2	11.8	1.9	< 0.1	2.28	< 10	8	0.27
LCSS02 -250	254 --	15	1.18	0.5	10.4	290	0.30	0.15	< 10	0.26	0.62	22	8.6	13.0	2.9	< 0.1	2.48	10	10	0.38
LCSS03+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS03-80+250	201 --	< 5	0.66	1.2	8.2	130	0.20	0.09	< 10	0.36	0.35	19	6.2	14.8	1.7	< 0.1	1.51	10	20	0.51
LCSS03 -250	254 --	10	0.95	0.6	9.0	240	0.15	0.12	< 10	0.46	0.52	29	7.6	15.8	2.3	< 0.1	2.00	10	18	0.63
LCSS04+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS04-80+250	201 --	< 5	0.71	0.6	10.6	160	0.25	0.10	< 10	0.32	0.40	21	6.8	12.8	1.8	< 0.1	1.84	20	14	0.57
LCSS04 -250	254 --	10	1.05	1.0	15.4	300	0.35	0.16	< 10	0.46	0.54	31	9.0	15.8	2.6	< 0.1	2.49	20	24	0.73
LCSS05+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS05-80+250	201 --	< 5	1.06	0.7	6.6	140	0.20	0.09	< 10	0.14	0.34	71	10.6	13.4	2.1	< 0.1	1.82	< 10	16	0.86
LCSS05 -250	254 --	< 5	1.06	0.5	5.2	190	0.20	0.11	< 10	0.14	0.42	42	6.4	11.4	2.3	< 0.1	1.63	10	14	0.60
LCSS06+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS06-80+250	201 --	< 5	0.68	0.6	12.4	130	0.20	0.10	< 10	0.54	0.45	17	6.6	13.2	1.7	< 0.1	1.94	20	18	0.52
LCSS06 -250	254 --	10	0.95	0.8	12.0	290	0.25	0.16	< 10	0.42	0.60	26	8.2	15.4	2.3	< 0.1	2.26	20	30	0.63
LCSS07+80	-- --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CHIEF ISAAC INCORPORATED

P.O. BOX 599
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: FARELL ANDERSON

Page Number :1-B
Total Pages :2
Certificate Date: 19-OCT-1999
Invoice No. :I9930533
P.O. Number :
Account :RLB

CERTIFICATE OF ANALYSIS A9930533

SAMPLE	PREP CODE	Mn ppm	Hg ppm	Mo ppm	Ni ppm	P ppm	K %	Sc ppm	Ag ppm	Na %	Sr ppm	S %	Te ppm	Tl ppm	Ti %	W ppm	U ppm	V ppm	Zn ppm
LCSS01-80+250	201 --	230	0.08	1.2	29	550	0.04	3	0.12	0.01	22	0.03	< 0.05	0.08	0.04	0.10	1.10	45	88
LCSS01 -250	254 --	190	0.12	0.8	27	710	0.04	3	0.14	0.01	26	0.03	< 0.05	0.10	0.03	0.20	1.10	32	86
LCSS02+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS02-80+250	201 --	1635	0.06	0.8	13	520	0.03	1	0.12	0.01	44	0.05	0.05	0.02	0.02	0.15	1.30	29	52
LCSS02 -250	254 --	1135	0.06	0.8	16	790	0.04	2	0.12	0.02	51	0.05	0.05	0.04	0.03	0.60	1.30	31	66
LCSS03+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS03-80+250	201 --	265	0.16	1.2	16	780	0.05	1	0.34	< 0.01	36	0.07	< 0.05	0.04	0.01	0.05	1.10	17	74
LCSS03 -250	254 --	445	0.13	1.2	22	890	0.07	2	0.14	0.01	56	0.05	0.05	0.06	0.03	0.40	1.70	25	76
LCSS04+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS04-80+250	201 --	370	0.17	1.4	19	920	0.05	1	0.18	0.01	40	0.15	0.05	0.04	0.01	0.05	1.10	20	74
LCSS04 -250	254 --	795	0.32	1.6	26	930	0.07	2	0.32	0.01	66	0.07	0.05	0.08	0.02	0.85	1.55	27	92
LCSS05+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS05-80+250	201 --	325	0.04	0.6	47	360	0.04	3	0.10	0.01	34	0.03	< 0.05	0.02	0.03	0.20	0.85	33	66
LCSS05 -250	254 --	230	0.02	0.6	27	580	0.05	3	0.12	0.01	42	0.03	< 0.05	0.02	0.03	0.70	1.20	28	72
LCSS06+80	202 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LCSS06-80+250	201 --	315	0.62	1.4	17	900	0.06	1	0.22	0.01	40	0.22	0.05	0.04	0.01	0.05	1.10	18	112
LCSS06 -250	254 --	600	0.48	1.6	22	990	0.07	2	0.62	0.01	60	0.06	< 0.05	0.06	0.02	0.20	1.60	25	92
LCSS07+80	-- --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CHIEF ISAAC INCORPORATED **

P.O. BOX 599
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: FARELL ANDERSON

Page Number :2-B
Total Pages :2
Certificate Date: 19-OCT-1999
Invoice No. :19930533
P.O. Number :
Account :RLB

CERTIFICATE OF ANALYSIS A9930533

SAMPLE	PREP CODE		Mn ppm	Hg ppm	Mo ppm	Ni ppm	P ppm	K %	Sc ppm	Ag ppm	Na %	Sr ppm	S %	Te ppm	Tl ppm	Ti %	W ppm	U ppm	V ppm	Zn ppm
LCSS07-80+250	201	--	615	0.09	1.2	16	810	0.06	1	0.12	0.01	49	0.10	< 0.05	0.04	0.01	0.05	1.35	19	60
LCSS07 -250	254	--	1260	0.09	1.4	22	860	0.08	3	0.18	0.01	82	0.04	0.05	0.06	0.02	0.30	1.85	27	74

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CERTIFICATE OF ANALYSIS A9930533

SAMPLE	PREP CODE		Au ppb FA+AA	Al %	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	B ppm	Cd ppm	Ca %	Cr ppm	Co ppm	Cu ppm	Ga ppm	Ge ppm	Fe %	La ppm	Pb ppm	Mg %
LCSS07-80+250	201	--	< 5	0.75	0.4	10.2	180	0.30	0.12	< 10	0.30	0.45	17	7.6	14.2	1.9	< 0.1	1.99	20	14	0.50
LCSS0C -250 07	254	--	580	1.08	0.5	14.0	340	0.35	0.17	< 10	0.38	0.64	26	10.2	18.4	2.6	< 0.1	2.69	20	20	0.60

CERTIFICATION:

Appendix C: Soil Sample Results

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: FARELL ANDERSON

CERTIFICATE OF ANALYSIS A9930397

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
[redacted]	216	202	10	0.2	1.73	12	< 10	550	< 0.5	< 2	0.55	< 0.5	10	35	19	2.77	< 10	50	0.06	10	0.52
	216	202	< 5	0.2	1.74	14	< 10	700	< 0.5	< 2	0.48	< 0.5	13	44	20	2.92	< 10	70	0.08	20	0.68
	216	202	5	0.2	1.65	14	< 10	560	< 0.5	< 2	0.59	0.5	12	39	17	2.75	< 10	90	0.08	20	0.59
	216	202	< 5	< 0.2	1.48	14	< 10	380	< 0.5	< 2	0.63	< 0.5	8	29	25	2.50	< 10	40	0.07	10	0.52
	216	202	10	< 0.2	1.83	12	< 10	490	< 0.5	< 2	0.54	< 0.5	12	35	23	2.60	< 10	70	0.06	20	0.52
LC010000	216	202	< 5	0.2	1.69	8	< 10	480	< 0.5	< 2	0.25	< 0.5	4	29	27	3.02	< 10	10	0.12	40	0.84
LC010100	216	202	< 5	< 0.2	2.47	14	< 10	730	< 0.5	< 2	0.17	< 0.5	11	43	59	4.09	< 10	< 10	0.10	40	1.53
LC010200	216	202	< 5	< 0.2	1.10	20	< 10	780	< 0.5	< 2	0.17	< 0.5	7	23	39	2.59	< 10	80	0.09	30	0.27
LC010300	216	202	10	1.4	0.45	14	< 10	330	< 0.5	< 2	1.77	1.5	11	12	81	2.50	< 10	470	0.09	30	0.33
LC010400	216	202	< 5	0.8	2.28	20	< 10	600	< 0.5	< 2	0.69	0.5	24	97	55	5.24	< 10	420	0.05	10	1.34
LC010500	216	202	5	3.8	0.73	68	< 10	370	< 0.5	< 2	2.40	3.5	15	19	155	3.40	< 10	960	0.04	30	0.52
LC010600	216	202	< 5	4.2	1.34	72	< 10	130	< 0.5	< 2	0.07	2.0	10	25	293	3.28	< 10	3010	0.02	50	0.91
LC010700	216	202	< 5	< 0.2	1.66	36	< 10	550	< 0.5	< 2	0.09	< 0.5	14	36	54	3.90	< 10	100	0.09	30	0.76
LC010800	216	202	5	0.8	0.59	108	< 10	240	< 0.5	< 2	0.34	< 0.5	22	17	46	8.49	< 10	480	0.04	< 10	0.12
LC010900	216	202	10	1.0	1.81	62	< 10	240	< 0.5	< 2	0.76	1.0	15	40	90	4.49	< 10	210	0.07	40	1.22
LC011000	216	202	< 5	0.4	1.38	8	< 10	190	< 0.5	< 2	0.15	< 0.5	3	6	14	2.13	< 10	170	0.05	70	1.12
LC011100	216	202	20	0.4	3.00	20	< 10	1360	< 0.5	< 2	0.19	< 0.5	15	47	64	4.15	< 10	90	0.11	30	0.93
LC011200	216	202	< 5	0.2	2.02	14	< 10	550	< 0.5	< 2	0.05	< 0.5	13	39	91	4.19	< 10	110	0.11	10	0.52
LC011300	216	202	10	1.2	2.64	30	< 10	990	< 0.5	< 2	0.82	0.5	14	45	87	4.15	< 10	290	0.13	30	1.19
LC011400	216	202	< 5	0.8	2.00	14	< 10	560	< 0.5	< 2	0.12	< 0.5	11	39	125	3.71	< 10	160	0.15	30	0.80
LC011500	216	202	< 5	< 0.2	3.42	6	< 10	110	< 0.5	< 2	0.50	< 0.5	25	298	53	3.31	< 10	< 10	0.01	< 10	3.56
LC011600	216	202	< 5	< 0.2	1.43	8	< 10	160	< 0.5	< 2	0.05	< 0.5	3	10	5	1.04	< 10	< 10	0.07	< 10	0.34
LC011700	216	202	< 5	0.4	2.75	20	< 10	380	< 0.5	< 2	0.68	< 0.5	14	50	63	3.60	< 10	80	0.22	40	2.24
LC011800	216	202	< 5	0.2	1.97	48	< 10	660	< 0.5	< 2	0.22	< 0.5	14	32	64	3.58	< 10	< 10	0.12	40	1.15
LC011900	216	202	< 5	0.4	1.45	78	< 10	810	< 0.5	< 2	0.23	0.5	12	32	42	2.87	< 10	60	0.10	20	0.59
LC012000	216	202	< 5	0.2	1.77	24	< 10	500	< 0.5	< 2	0.23	< 0.5	7	18	34	2.34	< 10	140	0.06	60	1.22
LC012100	216	202	< 5	0.2	1.42	34	< 10	660	< 0.5	< 2	0.31	< 0.5	11	26	44	3.04	< 10	140	0.07	40	0.69
LC012200	216	202	< 5	< 0.2	0.44	6	< 10	180	< 0.5	< 2	0.09	< 0.5	1	3	4	0.98	< 10	100	0.12	30	0.06
LC020000	216	202	5	0.2	2.64	12	< 10	280	< 0.5	< 2	2.92	< 0.5	28	107	105	3.84	< 10	60	0.07	< 10	1.69
LC020100	216	202	< 5	0.2	0.96	22	< 10	410	< 0.5	< 2	0.29	0.5	3	13	11	1.82	< 10	90	0.15	30	0.25
LC020200	216	202	5	< 0.2	1.18	8	< 10	220	< 0.5	< 2	0.28	< 0.5	7	19	7	1.97	< 10	60	0.10	10	0.35
LC020300	216	202	< 5	< 0.2	1.28	6	< 10	240	< 0.5	< 2	0.35	< 0.5	1	3	3	1.15	< 10	40	0.09	20	0.81
LC020400	216	202	< 5	< 0.2	0.79	8	< 10	300	< 0.5	< 2	0.26	< 0.5	3	5	4	0.97	< 10	60	0.13	20	0.27
LC020500	216	202	< 5	< 0.2	1.16	8	< 10	170	< 0.5	< 2	0.35	< 0.5	4	6	6	1.25	< 10	50	0.16	30	0.58
LC020600	216	202	< 5	< 0.2	1.22	8	< 10	350	0.5	< 2	0.57	< 0.5	5	13	12	1.89	< 10	50	0.08	30	0.44
LC020700	216	202	< 5	0.2	1.40	14	< 10	310	< 0.5	< 2	0.60	< 0.5	12	46	15	2.15	< 10	80	0.07	10	0.64
LC020800	201	202	< 5	0.2	1.64	18	< 10	280	< 0.5	< 2	0.21	< 0.5	14	46	12	3.76	< 10	130	0.09	10	0.59
LC020900	216	202	< 5	< 0.2	1.31	12	< 10	250	< 0.5	< 2	0.43	< 0.5	6	39	14	1.96	< 10	70	0.07	20	0.51
LC021100	216	202	< 5	< 0.2	1.40	12	< 10	320	< 0.5	< 2	0.31	< 0.5	8	32	14	2.00	< 10	80	0.08	20	0.59
LC021200	216	202	< 5	< 0.2	1.46	16	< 10	390	< 0.5	< 2	0.56	< 0.5	7	28	19	2.39	< 10	120	0.10	30	0.51

CERTIFICATION: _____ *+

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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CERTIFICATE OF ANALYSIS A9930397

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
[redacted]	216	202	645	3	0.01	24	740	12	0.03	< 2	4	38	0.06	< 10	< 10	54	< 10	78
[redacted]	216	202	395	2	0.01	33	810	12	0.01	< 2	4	40	0.08	< 10	< 10	53	< 10	104
[redacted]	216	202	525	3	0.01	28	860	10	0.01	< 2	4	44	0.08	< 10	< 10	51	< 10	98
[redacted]	216	202	300	1	0.01	24	840	6	0.03	< 2	4	41	0.07	< 10	< 10	49	< 10	70
[redacted]	216	202	770	3	0.01	24	690	8	0.01	< 2	5	39	0.07	< 10	< 10	52	< 10	66
LC010000	216	202	300	3	0.01	10	770	< 2	0.07	< 2	1	84	< 0.01	< 10	< 10	31	< 10	96
LC010100	216	202	260	1	< 0.01	52	320	16	< 0.01	< 2	1	15	< 0.01	< 10	< 10	34	< 10	114
LC010200	216	202	270	2	< 0.01	45	130	12	< 0.01	< 2	4	16	< 0.01	< 10	< 10	25	< 10	64
LC010300	216	202	340	20	< 0.01	66	1170	34	0.01	< 2	2	35	< 0.01	< 10	< 10	20	< 10	184
LC010400	216	202	745	11	0.01	81	310	12	0.01	< 2	14	26	< 0.01	< 10	< 10	93	< 10	154
LC010500	216	202	435	39	< 0.01	79	1230	144	0.03	2	1	28	< 0.01	< 10	< 10	25	< 10	378
LC010600	216	202	200	37	0.01	55	590	642	0.02	2	3	19	< 0.01	< 10	< 10	22	< 10	736
LC010700	216	202	360	1	0.01	77	160	14	< 0.01	< 2	3	14	0.01	< 10	< 10	37	< 10	130
LC010800	216	202	>10000	17	0.02	53	1090	44	0.03	6	3	91	< 0.01	< 10	< 10	58	< 10	98
LC010900	216	202	690	31	0.01	100	1330	18	< 0.01	< 2	3	54	< 0.01	< 10	< 10	59	< 10	214
LC011000	216	202	185	4	< 0.01	11	100	22	< 0.01	< 2	1	11	< 0.01	< 10	< 10	9	< 10	78
LC011100	216	202	395	1	< 0.01	87	140	22	< 0.01	< 2	3	16	0.01	< 10	< 10	52	< 10	142
LC011200	216	202	155	7	< 0.01	90	280	8	0.01	< 2	2	12	< 0.01	< 10	< 10	37	< 10	154
LC011300	216	202	455	15	0.01	65	450	16	0.02	< 2	5	85	0.01	< 10	< 10	61	< 10	182
LC011400	216	202	175	3	< 0.01	64	130	8	< 0.01	< 2	4	10	< 0.01	< 10	< 10	31	< 10	168
LC011500	216	202	435	1	0.01	120	580	2	< 0.01	< 2	3	28	0.21	< 10	< 10	57	< 10	40
LC011600	216	202	130	< 1	< 0.01	7	80	10	< 0.01	< 2	1	4	< 0.01	< 10	< 10	13	< 10	16
LC011700	216	202	650	2	< 0.01	59	660	18	0.01	< 2	3	44	0.01	< 10	< 10	39	< 10	112
LC011800	216	202	630	2	< 0.01	74	630	20	< 0.01	< 2	2	30	< 0.01	< 10	< 10	29	< 10	132
LC011900	216	202	455	3	< 0.01	62	250	20	< 0.01	< 2	2	20	0.01	< 10	< 10	35	< 10	104
LC012000	216	202	180	5	< 0.01	35	170	20	< 0.01	< 2	4	20	0.01	< 10	< 10	22	< 10	82
LC012100	216	202	380	8	< 0.01	51	290	22	0.01	< 2	3	36	< 0.01	< 10	< 10	30	< 10	124
LC012200	216	202	65	2	< 0.01	3	70	24	0.01	< 2	3	15	< 0.01	< 10	< 10	3	< 10	18
LC020000	216	202	655	2	0.01	42	570	< 2	0.03	< 2	7	69	0.21	< 10	< 10	81	< 10	62
LC020100	216	202	90	3	< 0.01	13	560	28	0.04	< 2	3	30	< 0.01	< 10	< 10	17	< 10	38
LC020200	216	202	385	2	0.01	10	540	16	0.02	< 2	2	24	0.04	< 10	< 10	44	< 10	40
LC020300	216	202	65	1	< 0.01	3	320	22	0.03	< 2	1	34	< 0.01	< 10	< 10	7	< 10	36
LC020400	216	202	250	1	< 0.01	3	520	24	0.02	< 2	2	23	< 0.01	< 10	< 10	8	< 10	28
LC020500	216	202	100	1	< 0.01	5	580	24	0.03	< 2	3	24	< 0.01	< 10	< 10	12	< 10	38
LC020600	216	202	175	1	< 0.01	10	680	18	0.03	< 2	4	47	0.01	< 10	< 10	22	< 10	34
LC020700	216	202	525	3	0.01	31	550	24	0.05	< 2	4	45	0.04	< 10	< 10	37	< 10	70
LC020800	201	202	620	4	< 0.01	19	470	36	0.03	< 2	3	19	0.03	< 10	< 10	60	< 10	66
LC020900	216	202	180	2	0.01	24	560	16	0.02	< 2	3	33	0.05	< 10	< 10	39	< 10	66
LC021100	216	202	195	2	0.01	19	510	14	< 0.01	< 2	3	28	0.04	< 10	< 10	35	< 10	54
LC021200	216	202	215	3	< 0.01	19	640	18	0.05	< 2	5	39	0.03	< 10	< 10	36	< 10	46

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CERTIFICATE OF ANALYSIS A9930397

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
LC021300	216	202	< 5	0.2	1.88	16	< 10	420	< 0.5	< 2	0.62	< 0.5	10	57	24	2.48	< 10	170	0.08	20	0.84
LC021400	216	202	< 5	0.2	2.18	12	< 10	310	< 0.5	< 2	0.42	0.5	14	63	24	2.92	< 10	230	0.08	20	1.16
LC021500	216	202	< 5	0.2	2.12	16	< 10	340	< 0.5	< 2	0.53	< 0.5	17	68	19	3.35	< 10	300	0.08	10	1.22
LC021600	216	202	< 5	0.2	2.67	16	< 10	240	< 0.5	< 2	0.62	< 0.5	22	80	20	3.64	< 10	170	0.07	10	1.82
LC021700	216	202	< 5	0.2	3.01	20	< 10	180	< 0.5	< 2	0.47	< 0.5	26	101	41	4.51	< 10	190	0.07	< 10	2.25
LC021800	216	202	< 5	< 0.2	2.59	8	< 10	260	< 0.5	< 2	0.66	< 0.5	19	71	33	3.61	< 10	60	0.06	< 10	1.57
LC021900	216	202	< 5	< 0.2	2.28	2	< 10	200	< 0.5	< 2	0.65	< 0.5	19	76	26	2.89	< 10	30	0.03	< 10	1.55
LC022000	216	202	< 5	< 0.2	2.44	14	< 10	240	< 0.5	< 2	0.51	< 0.5	18	80	31	3.03	< 10	70	0.03	< 10	1.49
LC022100	216	202	< 5	0.2	1.34	12	< 10	270	< 0.5	< 2	0.54	< 0.5	9	29	18	2.21	< 10	140	0.10	30	0.65
LC022200	216	202	< 5	< 0.2	2.21	6	< 10	210	< 0.5	< 2	0.59	< 0.5	15	59	27	3.13	< 10	70	0.06	< 10	1.33

CERTIFICATION: _____ *+

Chemex Labs Ltd.

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

To: CHIEF ISAAC INCORPORATED **

P.O. BOX 599
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: FARELL ANDERSON

Certificate Date: 15-OCT-1999
Invoice No. :I9930397
P.O. Number :
Account :RLB

CERTIFICATE OF ANALYSIS A9930397

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
LC021300	216 202	260	1	< 0.01	30	420	50	0.06	< 2	7	30	0.01	< 10	< 10	45	< 10	62
LC021400	216 202	280	1	< 0.01	36	310	36	0.01	< 2	7	23	0.03	< 10	< 10	58	< 10	130
LC021500	216 202	450	2	< 0.01	38	410	24	0.02	< 2	7	25	0.03	< 10	< 10	59	< 10	62
LC021600	216 202	415	2	< 0.01	46	300	14	0.04	< 2	8	26	0.04	< 10	< 10	74	< 10	50
LC021700	216 202	525	1	< 0.01	59	370	28	0.01	< 2	12	18	0.03	< 10	< 10	87	< 10	90
LC021800	216 202	315	2	0.01	39	450	2	0.03	< 2	8	26	0.04	< 10	< 10	71	< 10	50
LC021900	216 202	320	< 1	0.01	42	320	< 2	0.01	< 2	6	21	0.07	< 10	< 10	62	< 10	34
LC022000	216 202	340	2	0.01	42	290	< 2	0.01	< 2	6	21	0.07	< 10	< 10	63	< 10	38
LC022100	216 202	415	3	0.01	23	640	18	0.03	< 2	4	52	0.04	< 10	< 10	32	< 10	80
LC022200	216 202	250	2	0.01	33	500	6	0.02	< 2	7	24	0.04	< 10	< 10	65	< 10	44

CERTIFICATION: *+