

**ARCHER, CATHRO**  
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**ASSESSMENT REPORT**

describing

**GEOLOGICAL MAPPING AND GEOCHEMICAL SURVEYS**

on the

**EUREKA PROJECT**

Armenius 1-16	YC13007-YC13022
17-184	YC13533-YC13700
Eureka 1-56	YC12951-YC13006
57-182	YC13701-YC13826
187-206	YC13831-YC13850

NTS 1050/10

Latitude 63°32'N; Longitude 138°52'W

in the

Dawson Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

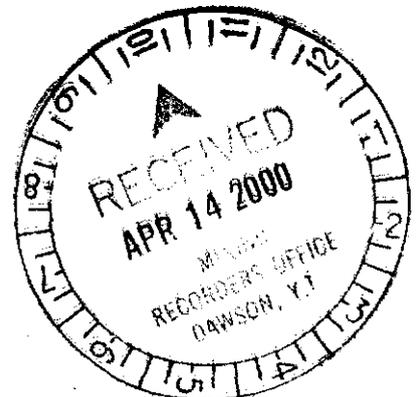
**EUREKA JOINT VENTURE**

Nordac Resources Ltd.  
Expatriate Resources Ltd.

by

W.A. Wengzynowski, P.Eng.  
February, 2000

094107



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 \$ 52,800 .

*M. B. K.*

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

## TABLE OF CONTENTS

	<u>PAGE</u>
SUMMARY AND RECOMMENDATIONS .....	1
INTRODUCTION .....	3
PROPERTY, LOCATION AND ACCESS .....	3
HISTORY AND PREVIOUS WORK.....	4
GEOMORPHOLOGY .....	6
REGIONAL GEOLOGY .....	6
PROPERTY GEOLOGY .....	8
PROPERTY GEOCHEMISTRY .....	9
HARD ROCK MINERALIZATION.....	10
PLACER HEAVY MINERAL CONCENTRATES .....	12
DISCUSSION AND CONCLUSIONS .....	13
REFERENCES .....	14

## APPENDICES

- I AUTHOR'S STATEMENT OF QUALIFICATIONS
- II CERTIFICATES OF ANALYSIS
- III ROCK SAMPLE DESCRIPTIONS

## FIGURES

<u>NO</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
1	Location .....	Following Page 3
2	Claim Location .....	Following Page 3
3	Regional Geology .....	Following Page 6
4	Property Geology .....	Following Page 8
5	Silt and Soil Sample Location.....	In Pocket
6	Gold Geochemistry.....	In Pocket
7	Arsenic Geochemistry .....	In Pocket
8	Rock Sample Location.....	In Pocket
9	TR-99-1 .....	Following Page 11
10	TR-99-2 .....	Following Page 11
11	TR-99-3 .....	Following Page 11

## SUMMARY AND RECOMMENDATIONS

The Eureka project is owned by Eureka Joint Venture (50% Expatriate Resources Ltd. and 50% Nordac Resources Ltd.) and consists of two adjoining properties, Eureka and Armenius, totalling 386 mineral claims. The properties are located 65 km southeast of Dawson City in west-central Yukon. Access is provided by the Hunker Creek road system which extends 90 km from the Klondike Highway directly onto the properties.

The Eureka and Armenius properties occupy approximately 5300 hectares in the central part of the Klondike Goldfields and cover potential lode gold source areas for two of the most productive placer gold creeks in Yukon. Reported gold production from Eureka and Black Hills Creeks which drain the project area is in excess of 140,000 ounces. The Klondike Goldfields lie within the Tintina Gold Belt which extends across Alaska and Yukon hosting numerous historic placer camps and recent lode discoveries. Like most of the gold districts within this belt, the Klondike Goldfields are largely underlain by metasedimentary and metaplutonic rocks of the Yukon-Tanana Terrane that are intruded by Mid-Cretaceous granitic stocks and cut by numerous high angle and thrust faults. During the last decade exploration in Alaska and Yukon has located several large gold deposits within old placer camps, including Fort Knox, Pogo, Donlin Creek and Dublin Gulch. The potential of the Klondike Goldfields is indicated by its approximately 12 million ounces of placer gold production compared to only 4225 ounces mined from lode sources.

Topography in the project area is subdued because it escaped Pleistocene glaciation. Elevations range from 560 to 1300 m and most parts of the properties exhibit mature soil and heavy vegetation. Outcrop is rare.

Exploration at the Eureka project is targeted toward distal type, intrusive related lode gold mineralization. Work to date has identified two areas of mineralization, one associated with high angle structures and the other with a regional scale thrust fault.

Work conducted in the headwaters of Eureka Creek outlined a 5 by 3 km target area. Stream sediment samples from this target are in the 90<sup>th</sup> to 98<sup>th</sup> percentile for gold and most indicator elements while reconnaissance soil sampling within it produced consistently anomalous results for gold. Prospecting was limited by the lack of exposure but yielded moderate to strong gold values from breccia and shear material apparently derived from high angle structures. Airphoto lineaments are roughly north and northwest trending coinciding with the main drainage patterns of the headwater creeks. Five quartz breccia float samples from various locales within the target area returned values between 0.8 and 15 g/t gold. Some of these samples were also elevated in silver, arsenic, molybdenum, lead and antimony. Chip samples from a limonite shear zone exposed in an old bulldozer trench averaged 0.33 g/t gold over 6.5 m.

Lode gold in the lower part of Eureka Creek is hosted by highly fractured rocks in the footwall of a major thrust fault that trends eastward across the Armenius property. Six samples were taken from fractured bedrock exposed along the floor of a placer cut. One sample returned 75.38 g/t gold and 22.2 g/t silver but low values for other pathfinder elements. At the time of sampling, a

placer operator was sluicing fractured rock some 2 m below the bedrock-glacial interface and was producing about six ounces of gold per hour. Follow up sampling in this particular section of the pit was not possible because placer mining had advanced upstream allowing it to fill with silt and water. A series of semi-continuous chip samples taken from a similar exposure in the new placer cut were analyzed by standard fire assay and screened for metallics but all samples returned low values. Soil geochemical response from this target is subdued because the entire area is covered by a thick layer of fluvial gravel.

Additional exploration is recommended in three phases. Close spaced grid soil geochemical surveys should be conducted over the target area outlined in upper Eureka Creek. This work should be done in conjunction with detailed mapping and sampling along roads and trails within and adjacent to the target area. Further sampling should also be done on bedrock exposures in placer cuts on lower Eureka Creek. Phase 2 should include ground geophysical surveys (VLF-EM and magnetic) to delineate structures associated with gold-in-soil geochemical anomalies in upper Eureka Creek. This phase of work should also consist of excavator trenching across anomalous geochemical and geophysical trends. If warranted, Phase 3 should incorporate diamond and/or rotary percussion drilling to test targets in upper and lower Eureka Creek.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES(1981) LIMITED

  
W.A. Wengzynowski, P.Eng.

## INTRODUCTION

The Eureka project consists of 386 mineral claims held by Eureka Joint Venture which is owned 50% by Expatriate Resources Ltd. and 50% by Nordac Resources Ltd. The project consists of two adjoining properties, Eureka and Armenius.

The claims are situated in the central part of the Tintina Gold Belt, a loosely defined 2100 km long zone of gold and silver deposits extending across Alaska and Yukon. This belt is estimated to contain in excess of 69 million ounces of gold based on reported past production and current resource figures. The Eureka project covers the headwaters of productive placer creeks that are part of the world class Klondike Goldfields.

All work conducted in 1999 was done by a two-person crew working from tent camps on the property. The program was managed by Archer, Cathro & Associates (1981) Limited and supervised by the author. Appendix I contains the Author's Statement of Qualifications.

## PROPERTY, LOCATION AND ACCESS

The properties are located in west-central Yukon at latitude 63°32'N and longitude 138°52'W on NTS map sheet 1150/10 (Figure 1). They consist of 386 contiguous mineral claims registered with the Dawson Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for Expatriate Resources and Nordac Resources. Claim registration data are listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
Armenius 1-16	YC13007-YC13022	February 15, 2002*
17-88	YC13533-YC13604	April 23, 2000
89-136	YC13605-YC13652	February 15, 2002*
137-152	YC13653-YC13668	April 23, 2000
153-156	YC13669-YC13672	February 15, 2002*
157-184	YC13673-YC13700	April 23, 2000
Eureka 1-56	YC12951-YC13006	February 15, 2002*
57-182	YC13701-YC13826	February 15, 2002*
187-188	YC13831-YC13832	April 23, 2000
189-202	YC13833-YC13846	February 15, 2002*
203-206	YC13847-YC13850	April 23, 2000

\*Expiry dates include 1999 work which been filed for assessment credit but not yet accepted.

Figure 2 shows the location of the claims that were explored in 1999 and on which assessment work has been filed.

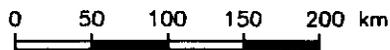
**EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.**

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

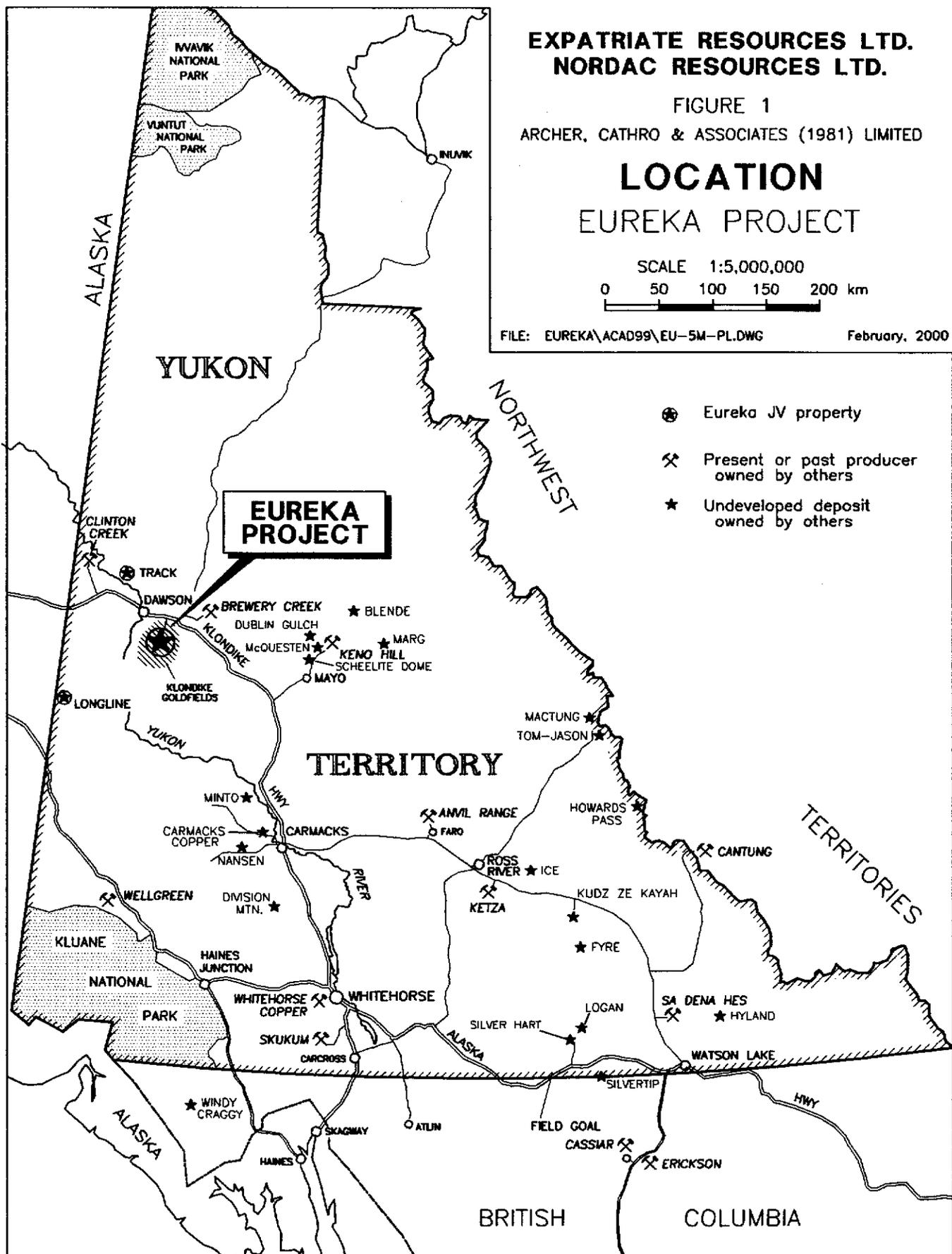
**LOCATION  
EUREKA PROJECT**

SCALE 1:5,000,000



FILE: EUREKA\ACAD99\EU-5M-PL.DWG

February, 2000



- ⊙ Eureka JV property
- ⌘ Present or past producer owned by others
- ★ Undeveloped deposit owned by others

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FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# CLAIM LOCATION

EUREKA PROJECT

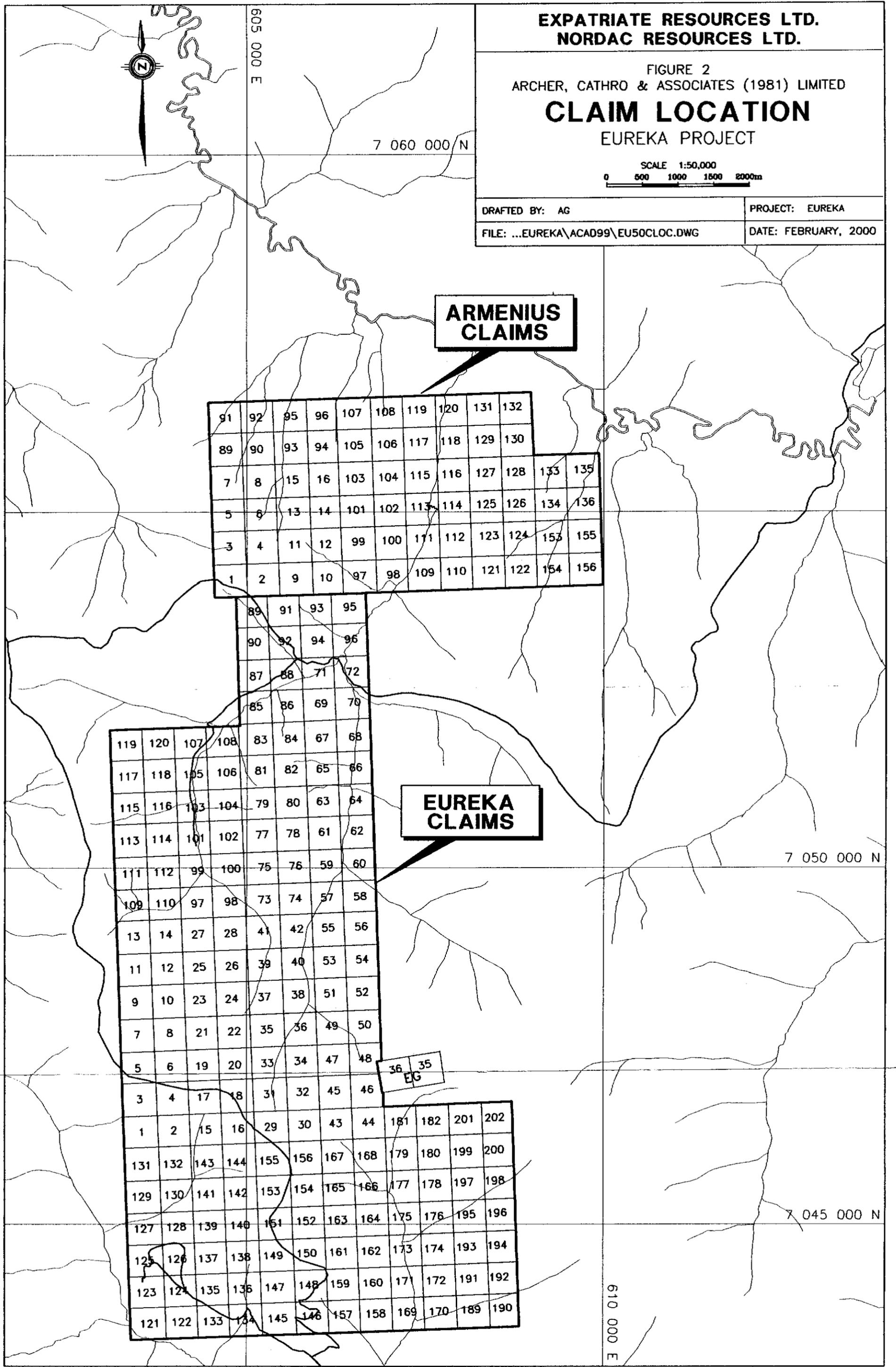
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0 500 1000 1500 2000m

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PROJECT: EUREKA

FILE: ...EUREKA\ACAD99\EU50CLOC.DWG

DATE: FEBRUARY, 2000



**ARMENIUS  
CLAIMS**

91	92	95	96	107	108	119	120	131	132		
89	90	93	94	105	106	117	118	129	130		
7	8	15	16	103	104	115	116	127	128	133	135
5	6	13	14	101	102	113	114	125	126	134	136
3	4	11	12	99	100	111	112	123	124	153	155
1	2	9	10	97	98	109	110	121	122	154	156

89	91	93	95
90	92	94	96
87	88	71	72
85	86	69	70

**EUREKA  
CLAIMS**

119	120	107	108	83	84	67	68
117	118	105	106	81	82	65	66
115	116	103	104	79	80	63	64
113	114	101	102	77	78	61	62
111	112	99	100	75	76	59	60
109	110	97	98	73	74	57	58
13	14	27	28	41	42	55	56
11	12	25	26	39	40	53	54
9	10	23	24	37	38	51	52
7	8	21	22	35	36	49	50
5	6	19	20	33	34	47	48
3	4	17	18	31	32	45	46

36 35  
EG

1	2	15	16	29	30	43	44	181	182	201	202
131	132	143	144	155	156	167	168	179	180	199	200
129	130	141	142	153	154	165	166	177	178	197	198
127	128	139	140	151	152	163	164	175	176	195	196
125	126	137	138	149	150	161	162	173	174	193	194
123	124	135	136	147	148	159	160	171	172	191	192
121	122	133	134	145	146	157	158	169	170	189	190

The properties are easily accessed by way of the Hunker Creek road system which leaves the Klondike Highway about 20 km east of Dawson City. The Hunker Creek road is seasonally maintained by the territorial government and the entire 90 km distance to the property is suitable for two-wheel drive vehicles. Access to most parts of the property is provided by a network of roads that are maintained by local placer miners.

### **HISTORY AND PREVIOUS WORK**

The creeks draining the Eureka and Armenius properties have been explored for placer gold since the gold rush era of 1898. Extensive hand mining by shafts and ground sluicing was carried out until the early 1940's. Production records ceased during World War II and resumed in 1959 with the advent of modern mining methods. Reported production figures to 1998 from Eureka Creek total approximately 66,000 ounces of gold. Similarly, the recorded gold production from Black Hills Creek immediately to the south was greater than 74,000 ounces between 1976 and 1997 (Mining Inspection Division, Placer Mining Section). Productive placer mines are currently operating on upper and lower Eureka Creek and on upper Childs Creek, a tributary of Black Hills Creek.

Hard rock exploration in the area is poorly documented prior to 1988. The first recorded work was done on the Reka claims by Dawson Eldorado Gold Mines Ltd. and Wealth Resources Ltd. which conducted mapping and soil sampling along the ridge system separating upper Eureka Creek from Childs Creek. The claims were staked to cover the probable source area of an exceptionally anomalous GSC reconnaissance stream sediment sample collected from the headwaters of Eureka Creek. The sample returned 89 ppb gold, 38 ppm arsenic, 0.8 ppm antimony and 110 ppb mercury, which represents the 90<sup>th</sup> to 98<sup>th</sup> percentile for each of those elements (OF 1364, 1986). Exploration on those claims outlined three target areas exhibiting north trending breccia zones and coincident gold in soil anomalies with values up to 496 ppb (Van Angeren, 1988). The claims were allowed to lapse and in 1992 the area was restaked by Wealth and Pacific Mariner Exploration Ltd. as the Clara claims. Minor soil sampling and ground geophysical surveys were carried out between 1992 and 1994 focussing on north trending breccia fault zones near the headwaters of Eureka Creek. Some bulldozer and excavator trenching was performed in 1994 across select gold-in-soil anomalies and/or VLF-EM conductors. Assays obtained from trench sampling reportedly returned up to 640 ppb gold across 2 m (Southam, 1995). The EG and CG claims were located immediately east of the Clara claims and were worked intermittently by J. Christie between 1992 and 1995. Work consisted of stream sediment sampling and reconnaissance soil sampling. Results from the CG claims were poor but no information is available for the EG claims because two are still in good standing and assessment reports have not yet been released.

Although little lode exploration has been done in the lower Eureka Creek area, three showings have been documented from work performed between 1903 and 1995. The Armenius Showing was originally described in a 1903 Dawson City newspaper article as a quartz ledge some 18 m wide and 3 to 5 km long (DIAND, 1995 #1150 118). Samples collected from a 12 m deep shaft through frozen overburden reportedly assayed as high as \$284/ton which equates to 487 g/t gold (with gold at \$20 per ounce). The Buffalo Springs occurrence was discovered by placer miners in 1985 on the floor of a small creek 2 km east of the Armenius Showing. It is described as quartz-sericite schist and biotite schist containing pyritic stringers, quartz and graphite in an east trending, clay altered shear zone. Visible gold was reportedly panned from crushed samples. The prospect was staked for lode potential in 1988 by Dan Hermanutz and Kieran Dunt who conducted specimen and chip sampling from shear zones exposed in placer workings. All samples returned values below detection limit even though particulate gold was panned from several crushed samples (Daunt, 1995). The Gopher Creek occurrence, situated 2 km east of Buffalo Springs, was also discovered by placer miners in 1994 at the head of an extremely productive paleochannel. Bedrock exposed in the placer cut was described as a strongly altered chloritic shear zone with pervasive iron staining and quartz-epidote veining. No specimens or chip samples of this material were taken. The Gopher and Marmot claims were staked in 1994 by Angus Woodsend who drilled five Nodwell mounted auger holes on the claim blocks. Results were not reported from this work but they must have been disappointing because the claims were subsequently allowed to lapse.

A comprehensive study of the placer gold from Eureka and Childs Creeks was conducted by R. Carne of Archer Cathro during winter 1998-1999. Gold recovered from the upper regions of both creeks is described as a mixture of coarse and fine grains with average fineness increasing downstream from 640 to 735. The grains are generally angular and some contain inclusions of dark quartz while others are attached to larger white quartz fragments. Gold bearing gravels in Eureka Creek reportedly became too low grade to mine about 6 km downstream from the headwaters; however, values dramatically increased again further downstream in lower Eureka Creek. The area where the lower pay streak started approximately coincides with the projected trace of the regional scale thrust fault associated with the Armenius, Buffalo Springs and Gopher lode gold showings. The fineness of placer gold in lower Eureka Creek starts at about 680 at the top of the pay streak and increases downstream to 860 near the junction between Eureka Creek and Indian River. In this area the coarse gold is chunky and weakly coated with a red oxide. Nuggets are up to one-half ounce and are often attached to quartz fragments.

Most of the placer gold from the main creeks in the Klondike Goldfields closer to Dawson City is thought to have been reworked from the White Channel Gravels, a gold bearing unconsolidated paleogavel unit that caps many hills in the area. This gold is characterized by high fineness and a high degree of rounding and flattening. The source of this gold is enigmatic but its fineness and shapes suggest it has travelled some distance. Conversely, the character of the placer gold in Eureka and Childs Creeks indicates local provenance from two potential lode source areas.

The results of the placer gold study prompted Nordac to stake the initial 72 claims of the Armenius and Eureka properties to cover the potential lode source areas early in 1999. Later that spring Nordac formed Eureka Joint Venture with Expatriate and it staked an additional 314 claims.

## GEOMORPHOLOGY

Elevations in the vicinity of the property range from 560 m near the confluence of Eureka Creek and Indian River to 1300 m along the ridge separating Eureka Creek from Black Hills Creek. The area escaped Pleistocene glaciation and as a result the landscapes are mature with dendritic drainages forming radial fans off the flanks of upland domes. All creeks draining the project area are tributaries of the Yukon River watershed.

North facing slopes are blanketed by moss and labrador tea covering 5 to 100 cm of organic matter and silty soil. Permafrost is prevalent where the organic layer exceeds 50 cm thickness. Conversely, southern slopes generally exhibit silty soil with little to no organic material or permafrost.

Vegetation is characterized by mature poplar stands along the Indian River and lower creek valleys giving way to stunted black spruce and willow then thick growths of buckbrush, willow and juniper atop the domes.

## REGIONAL GEOLOGY

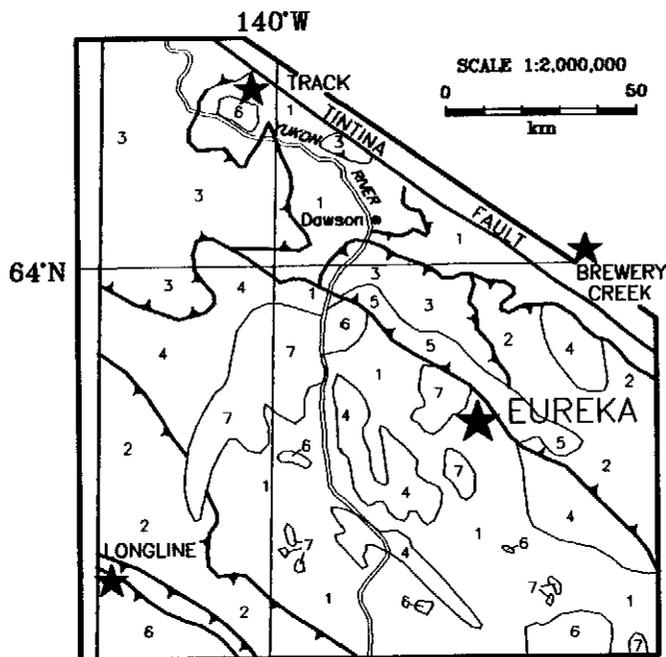
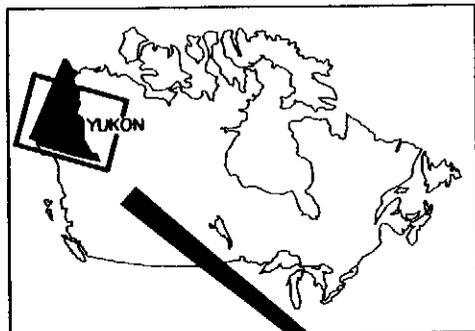
Geology of the Klondike district is dominated by a series of regional scale thrust faults that juxtapose layered metamorphic and metaplutonic rocks of the Yukon-Tanana Terrane (YTT). Post thrust, Mid- to Late Cretaceous volcanic flows and granitic plutons are common in the southern and western parts of the district. Figure 3 illustrates the distribution of lithologies as interpreted through a variety of sources dating from 1935 to present.

Outcrop exposure is poor across most of the district and is generally confined to ridge crests, deeply incised drainages and road cuts. Most mapping in the area was done at reconnaissance scale without the aid of geochronology or plate tectonic theories (Bostock, 1942; Green and Roddick, 1972; Tempelman-Kluit, 1974).

Recent, more detailed mapping by Mortensen (1990) suggests that the metamorphic rocks are part of YTT and can be subdivided into three stratigraphic units (Assemblages 1, 2 and 3) and two metaplutonic units (Mt. Burnham Augen Orthogneiss and Sulphur Creek Orthogneiss) all of which are Paleozoic age. The stratigraphic assemblages have undergone four phases of deformation.

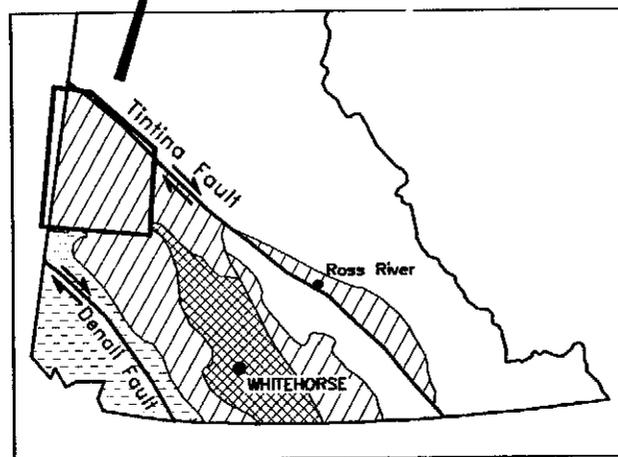
### Stratigraphic Units

**Assemblage 1** consists of variably deformed and sheared phyllite and quartzites. These rocks are generally medium to dark grey and sometimes contain thinly interbedded carbonaceous siltstone, fine sandstone and rare marble. Although not dated, these rocks are believed to be Early Paleozoic in age.



- 7 Late Cretaceous volcanic and sedimentary rocks
- 6 Mid- or Late Cretaceous plutonic rocks
- Yukon-Tanana Terrane Metaplutonic rocks
- 5 Permian Orthogneiss
- 4 Devonian-Mississippian Augen Orthogneiss
- Yukon-Tanana Terrane Paleozoic Metasediments and Metavolcanics
- 3 Assemblage 3
- 2 Assemblage 2
- 1 Assemblage 1

- Coastal and Insular Belts
- Intermontane Belt
- Yukon-Tanana Terrane and Slide Mountain Terrane
- Ancestral North America including Cassiar Terrane



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FIGURE 3  
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**REGIONAL GEOLOGY**  
EUREKA PROJECT

FILE: ..EUREKA\ACAD99\EU-REG3.DWG      DATE: FEBRUARY, 2000

**Assemblage 2** is largely comprised of Devono-Mississippian quartzite, chloritic schist and amphibolite. Quartzite is generally pale coloured and contains variable quantities of mica and feldspar. Discontinuous lenses of marble and quartz-mica-calcite schist are noted in some areas.

**Assemblage 3** consists of mafic to intermediate schist plus quartzite and lesser felsic schist. Accessory minerals observed within schist units include quartz and feldspar augen, actinolite and chlorite. Muscovite is often observed along foliation planes within the quartzite unit. These rocks have returned Permian age dates.

### **Metaplutonic Units**

**Mt. Burnham Augen Orthogneiss** is granitic in composition and consists mainly of subhedral to strongly flattened and broken potassium feldspar. The matrix is comprised of sucrosic quartz, biotite, muscovite and feldspar. This unit is assigned a Devono-Mississippian age.

**Sulphur Creek Orthogneiss** is a pink weathering unit that has only been recognized in the vicinity of Sulphur Creek. It has a quartz monzonite composition and has been dated as Permian.

### **Mid- to Late Cretaceous Igneous Units**

Mid-Cretaceous granitic stocks and related dykes are comprised of quartz, feldspar, muscovite, biotite and sometimes hornblende. The closest stock to the properties is at Grizzly Dome some 38 km to the south-southeast. Diabase and olivine gabbro lenses and plugs are believed to be coeval but are rare. These bodies form a loosely defined arc south and west of the project area intruding rocks of Assemblages 1 and 2 plus the Mt. Burnham Augen Orthogneiss.

Late Cretaceous volcanic flows and feeder dykes are predominantly andesitic in composition. They are mapped as unconformably overlying Assemblage 1 and Mt. Burnham Augen Orthogneiss and, more frequently, as conformably capping, thin continental sedimentary rocks that are also believed to be Late Cretaceous in age. The closest volcanic flows outcrop at Henderson Dome, 10 km south of the Eureka claim block. Some of the smaller exposures of the volcanic unit are likely sub-volcanic feeder pipes or dykes.

### **Structure**

Four phases of deformation are observed in layered rocks of the YTT within the Klondike district. The deformation is thought to have occurred from Mid-Permian to Cretaceous during and following accretion of YTT to North America. Phase I involved Mid-Permian regional scale metamorphism which resulted in penetrative foliation approximately parallel to original bedding. This fabric trends roughly northwest and dips gently to the northeast. Small scale isoclinal folds were also developed at this time. The Phase II event occurred between Mid-Permian and Late Triassic and formed close spaced crenulation cleavage. At least three different sub-phases of crenulation cleavage are observed. The latest may be associated with the development of thrust faults which are constrained to the period between Late Triassic and Early Jurassic. The onset of

this faulting is also coincident with the emplacement of serpentinite bodies along the faults and small scale isoclinal folding, link banding and warping. The final phase of deformation is coeval with the emplacement of Cretaceous intrusive bodies which resulted in broad low amplitude folding that masks and overprints the Phase I foliation. Steep faults are developed adjacent to some Cretaceous intrusions and are major controls for many drainages. Displacement on these structures is unknown but is believed to be minor.

## PROPERTY GEOLOGY

No detailed property mapping was done during the 1999 field season. Figure 4 shows outcrops and bedrock exposures encountered during prospecting and soil sampling, along with airphoto linears. Three main units have been recognized on the property. Unit A is augen orthogneiss of the Devonian-Mississippian metaplutonic suite. Unit B includes quartzite, phyllite and quartz-muscovite-biotite schist while Unit C is limestone. Units B and C belong to Assemblage 1. Lithologies are described below.

### Unit A

**Augen Orthogneiss** is grey and weathers as large blocky slabs. The matrix is well foliated and contains quartz, feldspar, biotite and muscovite. Augen are potassium feldspar ranging from 1 to 8 mm in diameter with aspect ratios of about 2:1.

### Unit B

**Quartzite** is dark grey to white and blocky weathering. It forms resistant knobs near the top of ridge crests. The matrix is weakly to moderately sugrosic and often contains variable quantities of biotite and muscovite which define foliation planes. None of the specimens tested were calcareous.

**Phyllite** is grey-blue to black, non-graphitic and recessive weathering. This unit was only observed at three locales, two of which were in old trenches. At all three sites the phyllite is strongly clay altered and has a gougy and/or crumbly texture.

**Quartz-muscovite-biotite schist** is dull greenish brown to grey and thinly foliated. It has been observed as homogeneous horizons over 10 m thick and as foliaform bands less than <0.5 m thick within quartzite. Chlorite, sericite and feldspar are common accessory minerals often developed parallel to foliation. Where the schist contains feldspar it is usually crumbly due to the alteration of feldspar to clay minerals. Elsewhere it forms platy slabs.

### Unit C

**Limestone** is cream coloured, buff weathering and competent. The matrix is coarsely crystalline and contains variable amounts of biotite and muscovite. Near the headwaters of Childs Creek, the limestone is locally skarnified and exhibits diopside, garnet and minor sulphides.

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FIGURE 4  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
 EUREKA PROJECT

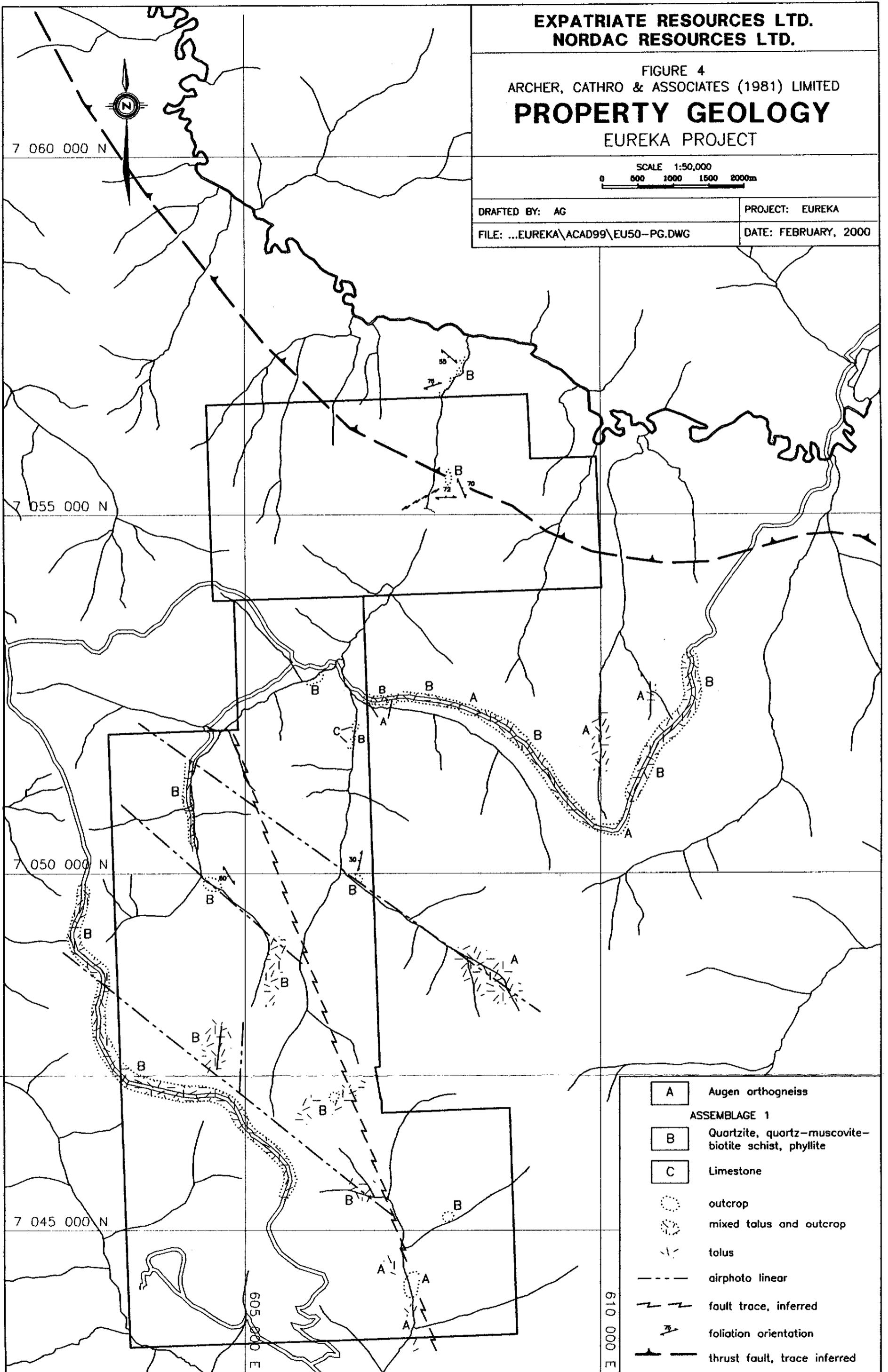
SCALE 1:50,000  
 0 500 1000 1500 2000m

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PROJECT: EUREKA

FILE: ...EUREKA\ACAD99\EU50-PG.DWG

DATE: FEBRUARY, 2000



- A Augen orthogneiss
- ASSEMBLAGE 1**
- B Quartzite, quartz-muscovite-biotite schist, phyllite
- C Limestone
- outcrop
- mixed talus and outcrop
- talus
- airphoto linear
- fault trace, inferred
- foliation orientation
- thrust fault, trace inferred

## **Structure**

The most prominent structure mapped in the vicinity of the property is a low angle thrust fault that trends easterly across the Armenius claim block, approximately parallel to the Indian River. The surface trace of the thrust is only approximate because shear zones associated with it have only been exposed in widely spaced placer cuts. The shear zones are described as chlorite-sericite-clay gouge zones with pervasive iron staining and quartz-epidote veining. Quartz boulders are also present in the gouge matrix suggesting substantial milling and shearing has taken place.

Eureka and Childs Creeks which drain the uplands west of Eureka Dome are believed to coincide with high angle, north and northwest trending faults. Displacement along these faults is unknown but the presence of strongly milled, quartz rich breccia zones suggests a complex, multi-stage history.

Abundant quartz vein float is present in all placer creeks but only a few veins were observed cutting bedrock. They normally strike northeasterly and dip steeply to the northwest. Fracturing is evident in most outcrops and talus fragments, especially in quartzite. Limonite after pyrite is common along fracture selvages.

Folding and warping are implied by erratic foliation attitudes observed across the property. No folds were seen at outcrop scale and too few foliation measurements were taken to identify the axes of large scale structures.

## **PROPERTY GEOCHEMISTRY**

Samples were taken during two different periods in the 1999 field season. Stream sediment samples were collected from most creeks and pups draining the Eureka and Armenius properties in early June while soil samples were taken along claim lines and a section of the placer access road near the headwaters of Eureka Creek during the fall. Sample sites along the claim lines are at 225 m intervals and are indicated by double flagging with the sample number shown in felt pen. The road sample sites are 100 m apart and are marked by one-half metre wooden lath bearing the sample number in felt pen. Sample locations are shown on Figure 5.

All samples were sent to Chemex Labs Ltd. of North Vancouver where they were dried, sieved to -80 mesh, dissolved in nitric-aqua regia and analyzed for 32 elements using Induced Coupled Plasma (ICP) technique. The samples were also analyzed for gold using fire assay and atomic absorption finish. Geochemical results for gold and arsenic are illustrated on Figures 6 and 7, respectively.

Response from stream sediment sampling was extremely discriminating, isolating the area drained by upper Eureka Creek as the primary exploration target. Twelve of sixteen samples from the headwaters of Eureka Creek returned values  $\geq 10$  ppb gold which is considered anomalous in the

Klondike district. Six of the samples were  $\geq 20$  ppb gold and the peak value was 70 ppb. Aside from two samples from Childs Creek which exceeded 5 ppb, all other stream sediment samples taken from the Eureka claim block and the Armenius property were below the detection limit for gold.

Collection of good quality soil samples was surprisingly easy and only three sample sites were abandoned due to frozen ground conditions. The best response for gold and most pathfinder elements were obtained from soils taken in a 5 by 3 km northeasterly elongated area that encompasses the headwaters of Eureka and Childs Creeks. The anomalous area is mostly outlined by claim line soil samples taken on lines spaced roughly 900 m apart. Approximately 70% of these samples exceeded the detection limit for gold. The highest and most continuous string of anomalous values was obtained from samples taken along the road cut which follows the ridge separating the two creek systems. Samples from a 1900 m segment of the road all returned values  $\geq 10$  ppb gold with a peak value of 145 ppb. Arsenic values are more subdued but generally coincident with areas of strong gold response.

Samples from lower Eureka Creek and the lowlands alongside the Indian River on the Armenius claim block produced scattered weakly anomalous gold values with generally subdued response for other metals.

Weakly anomalous molybdenum and lead values are erratically distributed across most of the project area while antimony and silver are generally below detection.

### **HARD ROCK MINERALIZATION**

The Eureka project hosts three main types of gold mineralization. Shear zones containing gold are associated with the regional scale thrust fault that crosses lower Eureka Creek and other small streams flowing into Indian River. Auriferous quartz breccias are found along high angle structures in the headwaters of upper Eureka Creek. Massive quartz vein with elevated but sub-economic concentrations of gold were collected in several parts of the project area.

One hundred and eighty-one rock samples were sent to Chemex Labs where they were pulverized and screened to -150 mesh, then geochemically analyzed for 32 elements using the ICP technique and for gold using fire assay and atomic absorption finish. Four samples from lower Eureka Creek were similarly treated and also screened for metallics. Certificates of Analysis are in Appendix II while rock sample descriptions appear in Appendix III. Rock sample locations are shown on Figure 8.

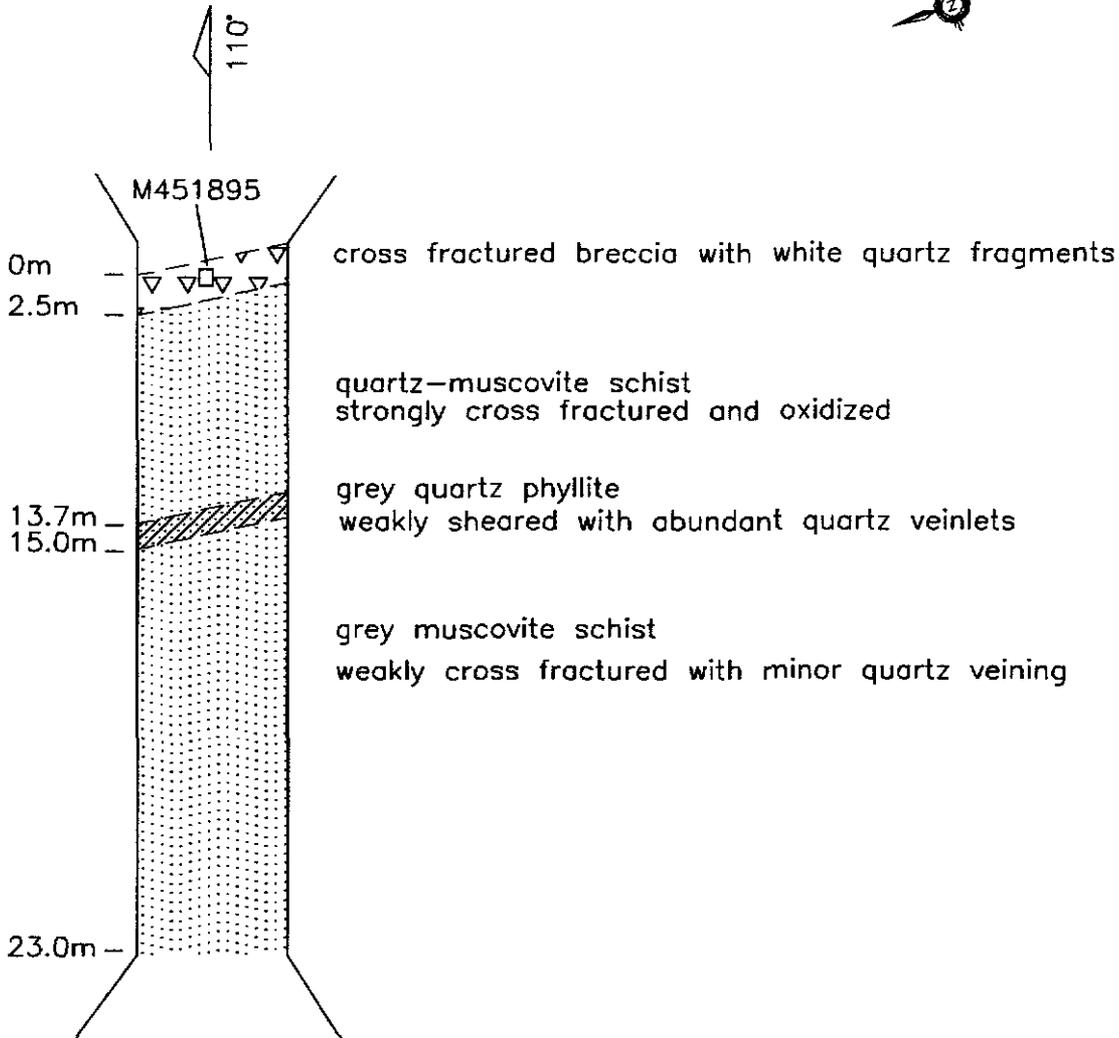
**Shear zones** consist of multi-coloured clay altered quartz-muscovite-chlorite-feldspar schist or shattered quartzite. The best exposure during the 1999 season was at the Aurion Placer workings (Aurion Showing on Figure 8) approximately 3 km up Eureka Creek from the Indian River.

The soil and bedrock profile on the west bank of the placer pit consisted of about 20 m of organic rich silt, underlain by 2 to 3 m of red channel gravels, and in turn underlain by about 4 m of clay altered, quartz rich schists. No placer gold was recovered from the silt or the gravels but sluicing of frozen, highly fractured bedrock material beneath the gravels produced about 5 to 6 ounces of gold per hour (John Loveless, pers. comm., 1999). In spring seven samples of various lithologies and alteration types were collected from the pit floor. A specimen of chloritic-quartz schist containing lenses and fragments of clear quartz assayed 75.38 g/t gold and 22.2 g/t silver with low values for other metals. All other samples returned near background values for all metals including gold. When the crew returned to this pit in fall, they found that it was filled with water and silt so they collected four more samples from bedrock in a second pit approximately 400 m upstream. None of these samples exceeded the lower detection limit for gold, even though the bedrock was being profitably mined by the placer operator. The samples from this pit were screened for metallics at Chemex Labs but no gold was recovered.

**Quartz breccia** is grey to white and contains varying amounts of orange to brown limonite. Specimens are subangular to well rounded and exhibit strong pitting on the weathered surfaces. All samples collected are autoclastic in nature and moderately to strongly milled. Cement healing the fragments appears to be rock flower developed during brecciation. Seven samples taken in the vicinity of the Wealth and Allen Showings (Figure 8) exceeded 100 ppb gold. These samples generally show positive correlation between gold, silver, arsenic, molybdenum and lead. Antimony and bismuth were near background. The highest assay came from a piece of strongly limonitic breccia float with remnant pyrite in the core that was collected from the Allen Showing. This sample returned 15 g/t gold, 25.5 g/t silver, 3510 ppm arsenic and 23 ppm molybdenum. Similar float specimens collected between the Allen and Wealth Showings returned values ranging from 120 to 1745 ppb gold. Continuous chip samples across the floor of an old bulldozer trench (TR-99-1) at the Wealth Showing yielded a weighted average of 0.33 g/t gold across 6.5 m (Figure 9). Arsenic values were also slightly elevated (up to 250 ppm) but the samples returned subdued values for other metals. This interval consists of weakly brecciated wallrock containing moderate amounts of fracture filled limonite but little quartz. Sections of two other old trenches (TR-99-2 and -3) in the same area were also sampled but returned low values for most metals including gold (Figures 10 and 11).

**Quartz vein** material is usually clear to white, strongly fractured and subrounded. Rusty weathering vugs and pits occur along fractures and within the matrix. Remnant disseminated sulphides in order of decreasing abundance are pyrite, galena, chalcopyrite and arsenopyrite. Textural variation of vein specimens is predominantly attributed to the degree of fracturing. Some specimens exhibit crack-and-heal brecciation but they are distinguished from the milled breccias because the fragments are very angular and matrix comprises only a small percentage of the rock.

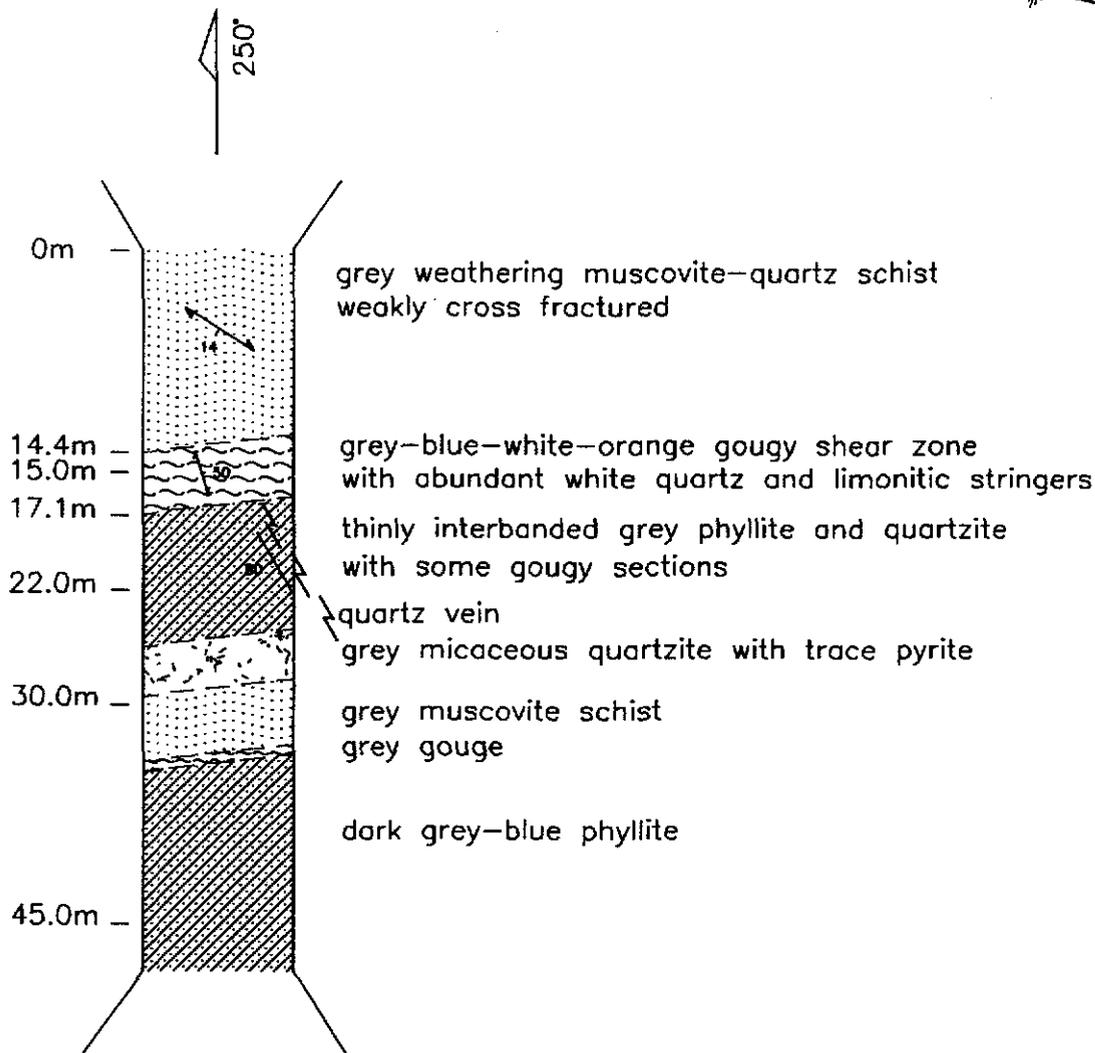
Five vein float specimens collected from Childs Creek and upper Eureka Creek (near the Allen Showing) returned gold values greater than 100 ppb and as high as 0.92 g/t. All of these samples contained elevated silver (up to 69.4 g/t), molybdenum (up to 62 ppm) and lead (up to 864 ppm) while arsenic, bismuth and antimony values were erratic and weak. Quartz stockwork and massive pyrite stringers were observed in strongly altered orthogneiss near the head of Childs Creek in a recent placer cut. A sample of this material was enriched in gold (205 ppb), silver (5.4 ppm) and molybdenum (38 ppm).



sample #	from	to	Au	Ag	As
M451895	-	-	.34	1.0	250
M451896	8.5m	10.5m	.22	0.6	106
M451897	10.5m	12.5m	.39	0.6	170
M451898	12.5m	13.7m	.50	0.6	142
M451899	13.7m	15.0m	.28	0.2	206

Au and Ag reported in g/t  
As reported in ppm

<b>EXPATRIATE RESOURCES LTD. NORDAC RESOURCES LTD.</b>	
FIGURE 9 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>TR-99-1</b> EUREKA PROJECT	
DRAWN/REVISED BY: WAW	PROJECT: EUREKA
FILE: ...EUREKA\ACAD99\EA\TR1.DWG	DATE: FEBRUARY, 2000



sample #	from	to	Au	Ag	As
BB29043	14.4m	17.1m	.035	0.6	4
BB29044	17.1m	18.4m	.020	0.2	2
BB29045	18.4m	20.7m	.060	0.8	32
BB29046	20.7m	21.3m	.010	0.6	14
BB29047	21.3m	22.0m	.025	0.8	14
BB29048	22.0m	23.0m	.015	0.4	8
BB29049	23.0m	24.9m	.005	—	64

Au and Ag reported in g/t  
As reported in ppm

**EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.**

FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

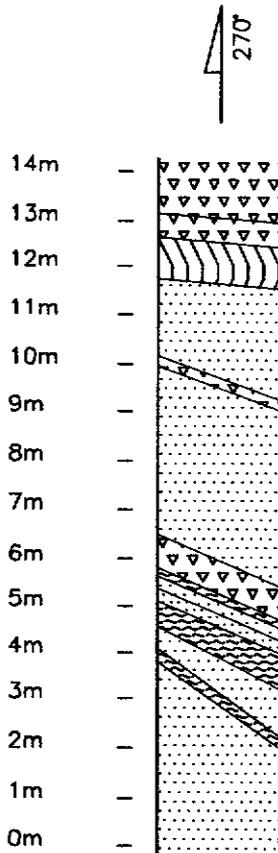
**TR-99-2**  
EUREKA PROJECT

DRAWN/REVISED BY: WAM

PROJECT:EUREKA

FILE: ...EUREKA\ACAD99\EVTR2.DWG

DATE: FEBRUARY, 2000



sample #	from	to	Au	Ag	As
BB06384	0m	1.8m	10	-	18
BB06385	1.8m	2.7m	-	-	10
BB06386	2.7m	4.0m	120	5.0	264
BB06387	4.0m	5.4m	10	1.6	64
BB06388	5.4m	6.0m	10	-	44
BB06389	6.0m	7.7m	10	-	22
BB06390	7.7m	9.45m	10	-	24
BB06391	9.45m	10.0m	15	-	16
BB06392	10.0m	11.7m	-	-	14
BB06393	11.7m	12.6m	-	-	10
BB06394	12.6m	13.3m	-	-	10
BB06395	13.3m	13.7m	-	-	32

Au values reported in ppb  
Ag and As values reported in ppm

-  grey quartzite highly fractured with moderate oxidation
-  grey quartzite breccia
-  grey-brown quartz-muscovite schist
-  multi-colored clay gouge

**EXPATRIATE RESOURCES LTD.**  
**NORDAC RESOURCES LTD.**

FIGURE 11  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TR-99-3**  
EUREKA PROJECT

DRAWN/REVISED BY: WAW	PROJECT: EUREKA
FILE: EUREKA\ACAD099\EA\TR3.DWG	DATE: FEBRUARY, 2000

## PLACER HEAVY MINERAL CONCENTRATES

Two heavy mineral concentrate samples were obtained in 1999 from Richard Allen whose placer operation is located on the left fork of upper Eureka Creek. Both samples were examined microscopically. The sample sites are shown on Figure 8.

Gold in both samples occurs in a variety of forms ranging from fine wiry flakes to coarse, sometimes crystalline masses. It is commonly intergrown with clear quartz, white opaque quartz or red to red-black oxides. Some oxide lumps contain only 1 to 2% gold while others are more than 50%. About 4% of the gold is light coloured which is most likely due to high silver content of the gold grains.

The most abundant accessory minerals from both samples are tabulated below.

### **Heavy Mineral Distribution**

<u>Mineral</u>	<u>Sample</u>	
	<u>Upstream (%)</u>	<u>Downstream (%)</u>
Pyrite	60	73
Galena	--	10
Sphalerite	--	10
Arsenopyrite	1	2
Barite	20	--
Scheelite	9	1.5
Ilmenite	*6	--
Cassiterite	*2	--
Garnet	1	--
Cinnabar	--	Tr
Magnetite	--	Tr

\*Mineral identification speculative.

All of the metallic minerals are unoxidized and crystalline while non-metallic minerals are crystalline to subrounded. The metallic assemblage reflects typical sulphide vein mineralization. Variations in the concentration of specific minerals (especially galena and sphalerite) suggest that material from a vein containing these minerals is eroding into the stream between the sample sites.

## DISCUSSION AND CONCLUSIONS

The first phase of exploration at the Eureka project has identified an excellent lode gold target near the headwaters of Eureka Creek and an interesting but lower priority target in the lower part of Eureka Creek near the Indian River. Both targets are believed to be structurally controlled and related to a distal igneous centre. The target in the headwaters of Eureka Creek is associated with breccia zones primarily developed in quartzite and quartz rich schists while the lower target is developed in shear zones adjacent to a regional scale thrust fault.

Soil sampling appears to be an effective exploration technique in upper Eureka Creek but is likely to be unsuccessful in lower Eureka Creek because of thick overburden cover. Soil and rock samples from various parts of the property have shown that elevated gold values are usually accompanied by elevated silver and are sometimes associated with anomalous molybdenum, arsenic and lead values. Bismuth and antimony response was weak to non-existent in both the rocks and soils. This metal signature usually is indicative of distal thermal aureole gold mineralization.

Examination of heavy mineral concentrates from upper Eureka Creek strongly support a local provenance and suggests that at least some of the gold is derived from quartz veins containing sulphide minerals.

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**APPENDIX I**

**AUTHOR'S STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

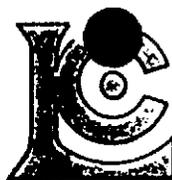
I, William A. Wengzynowski, geological engineer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.A.Sc. in geological engineering, option 1, mineral and fuel exploration.
2. I became a Professional Engineer on December 12, 1998 registered in the Province of British Columbia.
3. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in and supervised the field work reported herein.



W.A. Wengzynowski, P.Eng.

**APPENDIX II**  
**CERTIFICATES OF ANALYSIS**



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Analytical Chemists \* Geochemists \* Registered Assayers

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Project : AC23500  
 Comments: ATTN:RICHARD GORTON CC:OWEN LAVIN

Page : 1  
 Total : 3  
 Certificate Date: 12-AUG-1999  
 Invoice No. : 19924724  
 P.O. Number :  
 Account : PNX

## CERTIFICATE OF ANALYSIS A9924724

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Bi ppm
501	201	202	< 5	< 0.2	5	10	< 1	13	0.2	39	0.1
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2484	201	202	< 5	< 0.2	9	18	1	9	0.2	67	0.2

CERTIFICATION: \_\_\_\_\_

*Richard Gorton*



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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Bi ppm
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2752	201	202	< 5	< 0.2	7	20	1	9	0.6	55	0.1
2753	201	202	< 5	0.2	4	15	< 1	10	0.6	37	0.2
2754	201	202	< 5	< 0.2	2	13	< 1	7	0.6	40	0.2
2755	201	202	< 5	< 0.2	4	10	< 1	6	0.2	32	0.1

CERTIFICATION: \_\_\_\_\_



# Chemex Labs, Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
 994 Glendale Ave., Unit 3, Sparks  
 Nevada, U.S.A. 89431  
 PHONE: 775-356-5395 FAX: 775-355-0179

NEWMONT METALLURGICAL SERVICES

10101 E DRY CREEK RD.  
 ENGLEWOOD, COLORADO  
 80112

Project : AC23500  
 Comments: ATTN:RICHARD GORTON CC:OWEN LAVIN

Page : 3  
 Total : 3  
 Certificate Date: 12-AUG-1999  
 Invoice No. : 19924724  
 P.O. Number :  
 Account : PNX

## CERTIFICATE OF ANALYSIS A9924724

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Bi ppm
2756	201	202	< 5	< 0.2	1	17	1	8	0.6	38	0.1
2757	201	202	< 5	< 0.2	5	15	< 1	7	0.6	35	0.1
2758	201	202	< 5	< 0.2	6	15	< 1	9	0.6	38	0.1
2759	201	202	< 5	< 0.2	7	22	1	10	0.4	40	0.1
2760	201	202	< 5	< 0.2	3	19	1	10	0.6	40	0.1
2761	201	202	< 5	< 0.2	5	17	< 1	9	0.4	36	0.1
2762	201	202	< 5	< 0.2	5	15	1	8	0.6	38	< 0.1
2763	201	202	< 5	< 0.2	< 1	16	< 1	7	0.6	39	0.1
2764	201	202	< 5	< 0.2	6	15	1	11	0.6	62	0.2
2765	201	202	< 5	< 0.2	6	20	1	10	0.4	55	0.1
2766	201	202	< 5	< 0.2	2	33	< 1	10	1.0	46	0.1
2767	201	202	< 5	< 0.2	7	30	1	9	0.8	52	< 0.1
2768	201	202	< 5	< 0.2	5	17	1	10	0.6	48	0.1
2769	201	202	< 5	< 0.2	3	16	< 1	9	0.8	48	0.1
2770	201	202	< 5	< 0.2	4	23	< 1	8	0.8	44	0.1
2771	201	202	< 5	< 0.2	< 7	29	< 1	9	0.6	51	0.1
2772	201	202	< 5	< 0.2	< 1	15	< 1	8	0.6	43	< 0.1

CERTIFICATION: \_\_\_\_\_





# Chemex Labs, Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
994 Glendale Ave., Unit 3, Sparks  
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NEWMONT METALLURGICAL SERVICES

10101 E DRY CREEK RD.  
ENGLEWOOD, COLORADO  
80112

Project : AC23500  
Comments: ATTN:RICHARD GORTON CC:OWEN LAVIN

Page : 1  
Total P : 1  
Certificate Date: 12-AUG-1999  
Invoice No. : 19924723  
P.O. Number :  
Account : PNX

## CERTIFICATE OF ANALYSIS A9924723

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Bi ppm
1293	205	294	< 5	< 0.2	26	27	1	3	0.8	36	0.1
1294	205	294	10	< 0.2	62	24	2	3	3.4	175	0.3

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: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 1016 - 510 W. HASTINGS ST.  
 VANCOUVER, BC  
 V6B 1L8

Page Number : 1-A  
 Total : 1  
 Certificate Date: 10-NOV-1999  
 Invoice No. : 19932624  
 P.O. Number :  
 Account : RDF

Project : EUREKA  
 Comments:

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9932624</b>
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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 ppm	K %	La ppm	Mg %
M058181	205 226	20	0.2	0.67	32	10	230	< 0.5	< 2	0.01	0.5	2	253	23	0.89	< 10	< 1	0.05	< 10	0.01
M058182	205 226	5	0.6	0.39	54	< 10	50	< 0.5	< 2	0.01	1.0	< 1	249	22	0.62	< 10	< 1	0.09	< 10	0.01
M058183	205 226	10	0.2	0.56	26	10	460	< 0.5	2	0.01	< 0.5	3	214	9	0.34	< 10	< 1	0.03	10	< 0.01
M058184	205 226	< 5	< 0.2	0.50	62	< 10	300	< 0.5	< 2	< 0.01	< 0.5	< 1	157	20	0.90	< 10	< 1	0.04	10	< 0.01
M058185	205 226	265	1.6	0.32	234	10	30	< 0.5	6	0.01	0.5	1	231	87	1.35	< 10	< 1	0.09	10	< 0.01

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

Project : EUREKA  
Comments:

Page : 1-B  
Total : 1  
Certificate Date: 10-NOV-1999  
Invoice No. : 19932624  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9932624

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
M058181	205 226	70	3 < 0.01		4	270	36	0.03	< 2	1	43 < 0.01	< 10	< 10		21	< 10	100
M058182	205 226	55	1 < 0.01		4	120	42	0.04	< 2	1	6 < 0.01	< 10	< 10		19	< 10	134
M058183	205 226	35	2 < 0.01		3	330	18	0.01	2	1	95 < 0.01	< 10	< 10		16	< 10	32
M058184	205 226	20	3 < 0.01		3	390	14	< 0.01	< 2	1	57 < 0.01	< 10	< 10		21	< 10	28
M058185	205 226	40	3 < 0.01		4	190	42	0.07	2	< 1	4 < 0.01	< 10	< 10		13	< 10	94

CERTIFICATION:



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 PHONE: 604-984-0221 FAX: 604-984-0218

EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page : 1-A  
 Total : 1  
 Certificate Date: 26-OCT-1999  
 Invoice No. : 19931094  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments :

## CERTIFICATE OF ANALYSIS A9931094

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	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 ppm	K %	La ppm
BB06384	205 226	10	-----	< 0.2	0.41	18	< 10	80	< 0.5	< 2	0.01	< 0.5	4	130	13	0.45	< 10	< 1	0.11	10
BB06385	205 226	< 5	-----	< 0.2	0.33	10	< 10	60	< 0.5	< 2	0.01	< 0.5	< 1	128	8	0.34	< 10	< 1	0.09	< 10
BB06386	205 226	120	-----	5.0	0.88	264	< 10	340	< 0.5	< 2	0.03	< 0.5	22	166	188	12.05	< 10	< 1	0.05	< 10
BB06387	205 226	10	-----	1.6	1.48	64	< 10	500	< 0.5	< 2	0.08	< 0.5	27	297	56	4.34	10	< 1	0.07	< 10
BB06388	205 226	10	-----	< 0.2	0.67	44	< 10	100	< 0.5	< 2	0.01	< 0.5	3	142	42	1.82	< 10	< 1	0.14	10
BB06389	205 226	10	-----	< 0.2	0.59	22	< 10	150	< 0.5	< 2	0.01	< 0.5	7	201	21	0.97	< 10	< 1	0.16	10
BB06390	205 226	10	-----	< 0.2	0.64	24	< 10	160	< 0.5	< 2	0.01	< 0.5	3	131	20	0.68	< 10	< 1	0.13	10
BB06391	205 226	15	-----	< 0.2	0.87	24	< 10	280	< 0.5	< 2	0.01	< 0.5	9	132	35	0.67	< 10	< 1	0.20	30
BB06392	205 226	< 5	-----	< 0.2	0.54	16	< 10	90	< 0.5	< 2	< 0.01	< 0.5	< 1	108	14	0.49	< 10	< 1	0.15	10
BB06393	205 226	< 5	-----	< 0.2	0.52	14	< 10	210	< 0.5	< 2	< 0.01	< 0.5	< 1	166	9	0.37	< 10	< 1	0.13	10
BB06394	205 226	< 5	-----	< 0.2	0.29	10	< 10	80	< 0.5	< 2	< 0.01	< 0.5	< 1	99	7	0.27	< 10	< 1	0.06	< 10
BB06395	205 226	< 5	-----	< 0.2	0.61	10	< 10	200	< 0.5	< 2	0.01	< 0.5	< 1	137	9	0.34	< 10	< 1	0.15	10
M059955	205 226	< 5	-----	< 0.2	0.13	32	< 10	470	< 0.5	< 2	< 0.01	< 0.5	< 1	249	6	0.47	< 10	< 1	< 0.01	< 10
M059956	205 226	< 5	-----	< 0.2	0.34	116	< 10	550	< 0.5	< 2	< 0.01	< 0.5	< 1	169	24	0.68	< 10	< 1	0.06	< 10
M059957	205 226	25	-----	< 0.2	0.38	66	< 10	40	< 0.5	< 2	< 0.01	< 0.5	2	91	16	2.58	< 10	< 1	0.11	< 10
M059958	205 226	< 5	-----	< 0.2	0.31	530	< 10	240	< 0.5	< 2	0.01	< 0.5	8	176	50	7.94	< 10	< 1	0.08	< 10
M059959	205 226	< 5	-----	< 0.2	0.04	8	< 10	50	< 0.5	< 2	< 0.01	< 0.5	4	185	3	3.88	< 10	< 1	< 0.01	< 10
M059960	205 226	< 5	-----	< 0.2	0.49	184	< 10	80	< 0.5	< 2	< 0.01	< 0.5	4	309	66	6.06	< 10	< 1	0.12	< 10
N112480	205 226	< 5	-----	< 0.2	0.45	32	< 10	170	< 0.5	< 2	< 0.01	< 0.5	1	235	12	0.96	< 10	< 1	0.05	10
N112481	205 226	< 5	-----	< 0.2	0.45	14	< 10	70	< 0.5	< 2	< 0.01	< 0.5	< 1	161	18	0.41	< 10	< 1	0.04	< 10
N112482	205 226	< 5	-----	< 0.2	0.49	162	< 10	210	< 0.5	< 2	0.01	< 0.5	5	147	77	6.52	< 10	< 1	0.04	< 10
N112483	205 226	< 5	-----	< 0.2	0.65	162	< 10	140	< 0.5	< 2	< 0.01	< 0.5	3	227	68	4.59	< 10	< 1	0.10	10
N112484	205 226	< 5	-----	< 0.2	0.51	68	< 10	660	< 0.5	< 2	< 0.01	< 0.5	3	161	42	2.19	< 10	< 1	0.07	10
N112485	205 226	10	-----	0.2	0.23	216	< 10	90	< 0.5	< 2	< 0.01	0.5	11	146	50	6.12	< 10	< 1	0.07	10
N112486	205 226	< 5	-----	0.2	0.76	62	< 10	130	< 0.5	< 2	0.02	< 0.5	11	60	25	3.78	< 10	< 1	0.09	< 10
N112487	205 226	>10000	15.00	25.2	1.02	3510	< 10	100	< 0.5	< 2	0.02	2.5	8	24	71	>15.00	< 10	< 1	0.05	10
N112488	205 226	10	-----	0.4	1.27	10	< 10	890	< 0.5	< 2	0.06	3.0	13	18	21	>15.00	< 10	< 1	0.33	< 10
N112489	205 226	15	-----	3.4	0.30	402	< 10	250	< 0.5	< 2	0.04	6.5	19	17	15	>15.00	< 10	< 1	0.06	< 10
N112490	205 226	< 5	-----	< 0.2	0.74	150	< 10	80	< 0.5	< 2	< 0.01	1.5	8	109	46	7.10	< 10	< 1	0.10	10
N112491	205 226	< 5	-----	< 0.2	0.54	40	< 10	120	< 0.5	< 2	< 0.01	0.5	2	168	30	4.05	< 10	< 1	0.10	< 10
N112492	205 226	1680	-----	0.8	0.66	365	< 10	1230	< 0.5	< 2	< 0.01	0.5	4	128	248	6.19	< 10	< 1	0.02	10
N112493	205 226	10	-----	< 0.2	0.33	166	< 10	90	< 0.5	< 2	0.01	< 0.5	4	184	7	4.66	< 10	< 1	0.18	< 10
N112494	205 226	45	-----	< 0.2	0.42	378	< 10	80	2.0	< 2	0.02	1.0	26	165	125	11.25	< 10	< 1	0.11	10
N112495	205 226	10	-----	< 0.2	0.36	78	< 10	130	< 0.5	< 2	0.01	< 0.5	8	199	28	3.82	< 10	< 1	< 0.01	< 10
N112496	205 226	15	-----	< 0.2	0.18	22	< 10	20	< 0.5	< 2	< 0.01	< 0.5	1	193	11	1.43	< 10	< 1	0.02	< 10
N112497	205 226	< 5	-----	< 0.2	0.28	56	< 10	390	< 0.5	< 2	0.01	0.5	10	205	37	4.03	< 10	< 1	0.06	< 10
N112498	205 226	850	-----	17.4	0.19	58	< 10	790	< 0.5	< 2	0.02	0.5	4	118	20	2.30	< 10	< 1	0.22	10
N112499	205 226	30	-----	< 0.2	0.40	620	10	70	< 0.5	< 2	< 0.01	< 0.5	2	203	61	4.03	< 10	< 1	0.06	< 10

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218



To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project : EUREKA-EUREKA  
Comments:

Page Number : 1-B  
Total : 1  
Certificate Date : 26-OCT-1999  
Invoice No. : I9931094  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS

### A9931094

SAMPLE	PREP		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB06384	205	226	0.01	55	< 1	< 0.01	4	120	10	< 0.01	2	1	6	< 0.01	< 10	< 10	14	< 10	2
BB06385	205	226	0.01	15	1	< 0.01	3	80	4	< 0.01	< 2	1	2	< 0.01	< 10	< 10	11	< 10	2
BB06386	205	226	0.02	1515	12	< 0.01	31	1650	8	< 0.01	6	10	3	< 0.01	< 10	10	126	< 10	76
BB06387	205	226	0.07	2050	< 1	< 0.01	18	780	16	< 0.01	< 2	32	7	0.01	< 10	< 10	171	< 10	36
BB06388	205	226	0.01	40	2	< 0.01	6	340	8	< 0.01	< 2	3	6	< 0.01	< 10	< 10	31	< 10	12
BB06389	205	226	0.01	80	4	< 0.01	5	220	12	< 0.01	< 2	1	16	< 0.01	< 10	< 10	21	< 10	6
BB06390	205	226	0.01	65	1	< 0.01	4	250	12	< 0.01	< 2	2	33	< 0.01	< 10	< 10	22	< 10	6
BB06391	205	226	0.02	265	3	< 0.01	5	270	12	< 0.01	< 2	2	38	< 0.01	< 10	< 10	28	< 10	6
BB06392	205	226	0.01	15	1	< 0.01	3	160	10	< 0.01	< 2	1	10	< 0.01	< 10	< 10	24	< 10	2
BB06393	205	226	0.01	15	3	< 0.01	3	170	14	< 0.01	< 2	1	37	< 0.01	< 10	< 10	19	< 10	2
BB06394	205	226	< 0.01	5	< 1	< 0.01	2	100	6	< 0.01	< 2	1	13	< 0.01	< 10	< 10	12	< 10	< 2
BB06395	205	226	0.01	15	3	< 0.01	3	150	8	< 0.01	2	1	31	< 0.01	< 10	< 10	16	< 10	2
M059955	205	226	< 0.01	10	1	< 0.01	4	240	2	< 0.01	< 2	< 1	10	< 0.01	< 10	< 10	5	< 10	6
M059956	205	226	< 0.01	10	5	< 0.01	2	210	8	< 0.01	2	< 1	17	< 0.01	< 10	< 10	19	< 10	6
M059957	205	226	< 0.01	60	< 1	< 0.01	3	260	10	0.07	2	2	50	< 0.01	< 10	< 10	24	< 10	54
M059958	205	226	< 0.01	340	3	< 0.01	16	820	12	0.01	6	< 1	56	< 0.01	< 10	< 10	19	< 10	84
M059959	205	226	< 0.01	40	< 1	< 0.01	47	440	< 2	< 0.01	< 2	< 1	3	< 0.01	< 10	< 10	12	< 10	144
M059960	205	226	0.01	30	4	< 0.01	21	570	4	0.01	< 2	< 1	14	< 0.01	< 10	< 10	118	< 10	68
N112480	205	226	< 0.01	15	9	< 0.01	4	250	44	< 0.01	< 2	< 1	11	< 0.01	< 10	< 10	32	< 10	4
N112481	205	226	< 0.01	10	3	< 0.01	2	90	6	< 0.01	< 2	< 1	4	< 0.01	< 10	< 10	15	< 10	< 2
N112482	205	226	< 0.01	60	3	< 0.01	47	1770	6	< 0.01	2	< 1	21	< 0.01	< 10	< 10	60	< 10	162
N112483	205	226	< 0.01	35	8	< 0.01	16	1250	24	< 0.01	4	1	6	< 0.01	< 10	< 10	56	< 10	98
N112484	205	226	< 0.01	35	3	< 0.01	11	810	36	< 0.01	< 2	1	34	< 0.01	< 10	< 10	35	< 10	40
N112485	205	226	< 0.01	315	3	< 0.01	28	940	8	< 0.01	460	3	1	< 0.01	< 10	< 10	68	< 10	306
N112486	205	226	0.05	1015	< 1	< 0.01	23	510	28	< 0.01	< 2	5	1	< 0.01	< 10	< 10	15	< 10	102
N112487	205	226	< 0.01	70	23	< 0.01	84	2760	54	0.03	8	10	6	< 0.01	< 10	< 10	61	< 10	698
N112488	205	226	0.23	3140	< 1	< 0.01	59	390	2	< 0.01	10	4	5	0.01	< 10	< 10	13	< 10	826
N112489	205	226	< 0.01	1125	< 1	< 0.01	87	8540	2	< 0.01	12	< 1	8	< 0.01	< 10	< 10	11	< 10	1085
N112490	205	226	< 0.01	55	< 1	< 0.01	29	1240	14	< 0.01	2	3	5	< 0.01	< 10	< 10	40	< 10	276
N112491	205	226	< 0.01	55	4	< 0.01	8	520	8	< 0.01	2	2	9	< 0.01	< 10	< 10	37	< 10	72
N112492	205	226	< 0.01	25	182	< 0.01	17	1570	470	< 0.01	4	3	21	< 0.01	< 10	< 10	78	< 10	168
N112493	205	226	0.01	35	7	< 0.01	24	970	24	0.05	22	1	11	< 0.01	< 10	< 10	19	< 10	104
N112494	205	226	0.01	375	13	< 0.01	52	2080	12	0.01	22	3	7	< 0.01	< 10	< 10	45	< 10	484
N112495	205	226	< 0.01	255	38	< 0.01	15	640	298	< 0.01	2	1	12	< 0.01	< 10	< 10	14	< 10	38
N112496	205	226	< 0.01	25	7	< 0.01	5	140	4	< 0.01	< 2	< 1	< 1	< 0.01	< 10	< 10	6	< 10	20
N112497	205	226	0.01	1210	7	< 0.01	32	520	8	0.01	2	< 1	32	< 0.01	< 10	< 10	33	< 10	82
N112498	205	226	< 0.01	60	88	< 0.01	17	260	138	0.23	< 2	11	17	< 0.01	< 10	< 10	6	< 10	44
N112499	205	226	< 0.01	25	6	< 0.01	7	750	18	0.01	12	1	9	< 0.01	< 10	< 10	21	< 10	48

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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Project : EUREKA-EUREKA  
Comments:

Page : 1-A  
Total : 1  
Certificate Date: 22-OCT-1999  
Invoice No. : I9931093  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9931093

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt - grams	Wt + grams	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
M059961	205 226	< 0.07	< 0.07	< 0.002	117	2.27	< 0.2	1.09	6	< 10	90	< 0.5	< 2	0.09	< 0.5
M059962	205 226	< 0.07	< 0.07	< 0.002	71	1.65	< 0.2	0.90	6	< 10	100	< 0.5	< 2	0.05	< 0.5
M059963	205 226	< 0.07	< 0.07	< 0.002	66	1.71	< 0.2	1.56	2	< 10	100	0.5	< 2	0.06	< 0.5
M059964	205 226	< 0.07	< 0.07	< 0.002	114	1.71	< 0.2	1.14	< 2	< 10	100	< 0.5	< 2	0.05	< 0.5

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: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project : EUREKA-EUREKA  
Comments:

Page : 1-B  
Total : 1  
Certificate Date: 22-OCT-1999  
Invoice No. : I9931093  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9931093

SAMPLE	PREP CODE	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm
M059961	205 226	1	123	17	1.41	< 10	< 1	0.40	30	0.25	155	3	< 0.01	8	360
M059962	205 226	1	126	23	1.24	< 10	< 1	0.29	20	0.11	100	1	< 0.01	6	240
M059963	205 226	2	127	9	2.32	< 10	< 1	0.73	10	0.69	255	4	0.01	5	140
M059964	205 226	1	98	11	1.15	< 10	< 1	0.34	30	0.27	130	< 1	0.02	6	110

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Page: 1-C  
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Invoice No.: I9931093  
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Project: EUREKA-EUREKA  
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## CERTIFICATE OF ANALYSIS

### A9931093

SAMPLE	PREP CODE	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm			
M059961	205 226	20	< 0.01	< 2	3	3	0.03	< 10	< 10	18	< 10	68			
M059962	205 226	12	< 0.01	< 2	4	3	0.01	< 10	< 10	15	< 10	26			
M059963	205 226	6	< 0.01	< 2	4	4	0.06	< 10	< 10	4	< 10	52			
M059964	205 226	6	< 0.01	< 2	5	4	0.03	< 10	< 10	7	< 10	38			

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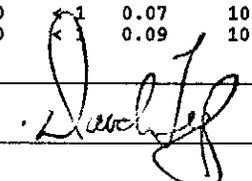
To: EUREKA JOINT VENTURE  
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Y1A 3S9

Project: EUREKA-EUREKA  
Comments:

Page: 1-A  
Total: 6  
Certificate Date: 26-OCT-1999  
Invoice No.: 19931092  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
BB01471	201	202	< 5	< 0.2	1.26	14	< 10	180	< 0.5	< 2	0.16	< 0.5	7	21	17	2.18	< 10	< 1	0.14	20	0.34
BB01472	201	202	25	< 0.2	1.12	22	< 10	260	< 0.5	< 2	0.11	< 0.5	6	20	20	2.06	< 10	< 1	0.08	10	0.31
BB01473	201	202	10	< 0.2	1.53	20	< 10	210	< 0.5	< 2	0.11	< 0.5	9	26	29	2.52	< 10	< 1	0.05	10	0.36
BB01474	201	202	< 5	< 0.2	2.01	16	< 10	210	< 0.5	< 2	0.11	< 0.5	8	33	18	2.71	< 10	< 1	0.05	10	0.40
BB01475	201	202	< 5	< 0.2	2.26	20	< 10	230	< 0.5	< 2	0.11	< 0.5	9	37	29	2.96	< 10	< 1	0.06	20	0.46
BB06396	201	202	< 5	0.2	2.46	32	< 10	160	< 0.5	< 2	0.18	< 0.5	11	46	21	3.74	< 10	< 1	0.07	10	0.62
BB06397	201	202	< 5	< 0.2	2.11	78	< 10	160	< 0.5	< 2	0.12	< 0.5	10	38	24	3.30	< 10	< 1	0.06	10	0.52
BB06398	201	202	10	< 0.2	2.55	40	< 10	260	< 0.5	< 2	0.14	< 0.5	12	42	26	3.36	< 10	< 1	0.06	10	0.62
BB06399	201	202	< 5	0.6	1.98	84	< 10	300	< 0.5	< 2	0.16	< 0.5	7	28	16	3.18	< 10	< 1	0.07	10	0.42
BB15132	201	202	< 5	< 0.2	2.35	20	< 10	250	0.5	< 2	0.27	< 0.5	10	35	59	4.67	< 10	< 1	0.53	50	0.64
BB15133	201	202	15	0.2	0.90	26	< 10	140	< 0.5	< 2	0.07	< 0.5	5	20	17	2.18	< 10	< 1	0.12	30	0.19
BB15134	201	202	45	< 0.2	2.42	16	< 10	410	< 0.5	< 2	0.23	< 0.5	13	54	29	3.53	< 10	< 1	0.08	20	0.71
BB15135	201	202	< 5	< 0.2	2.58	12	< 10	210	< 0.5	< 2	0.19	< 0.5	11	39	24	3.75	< 10	< 1	0.32	20	0.79
BB15136	201	202	< 5	0.2	2.05	10	10	190	< 0.5	< 2	0.20	< 0.5	11	48	18	3.16	< 10	< 1	0.40	30	0.75
BB15137	201	202	10	< 0.2	1.67	12	10	170	< 0.5	< 2	0.19	< 0.5	7	31	13	2.53	< 10	< 1	0.12	20	0.54
BB15138	201	202	< 5	< 0.2	1.79	10	10	190	< 0.5	< 2	0.20	< 0.5	7	35	14	2.43	< 10	< 1	0.11	10	0.58
BB15139	201	202	< 5	0.2	2.41	14	10	220	< 0.5	< 2	0.20	< 0.5	12	56	31	3.44	< 10	< 1	0.17	20	0.67
BB15140	201	202	< 5	< 0.2	3.59	8	10	200	0.5	< 2	0.16	< 0.5	13	127	20	3.93	< 10	< 1	0.78	20	1.52
BB15141	201	202	< 5	< 0.2	1.94	16	10	120	< 0.5	< 2	0.15	< 0.5	6	33	15	3.04	< 10	< 1	0.09	10	0.51
BB15142	201	202	40	0.6	2.35	30	10	170	< 0.5	< 2	0.13	< 0.5	7	37	45	3.84	< 10	< 1	0.34	40	0.68
BB15143	201	202	10	0.2	2.16	20	10	200	< 0.5	< 2	0.15	< 0.5	10	38	46	3.61	< 10	< 1	0.32	20	0.78
BB15144	201	202	< 5	0.2	1.88	16	10	160	< 0.5	< 2	0.16	< 0.5	8	33	23	2.95	< 10	< 1	0.19	10	0.61
BB15145	201	202	55	0.2	2.75	18	< 10	230	< 0.5	< 2	0.16	< 0.5	11	46	24	3.30	< 10	< 1	0.06	10	0.62
BB15146	201	202	10	< 0.2	1.83	16	10	160	< 0.5	< 2	0.13	< 0.5	9	34	25	2.97	< 10	< 1	0.12	20	0.47
BB15147	201	202	< 5	< 0.2	2.48	14	10	170	< 0.5	< 2	0.20	< 0.5	10	35	17	3.40	< 10	< 1	0.08	10	0.56
BB15148	201	202	< 5	0.2	1.85	6	10	290	< 0.5	< 2	0.34	< 0.5	7	39	16	2.63	< 10	< 1	0.09	10	0.64
BB15149	201	202	5	< 0.2	1.79	12	10	260	< 0.5	< 2	0.24	< 0.5	7	30	19	2.62	< 10	< 1	0.06	10	0.47
BB15150	201	202	< 5	< 0.2	1.68	14	< 10	210	< 0.5	< 2	0.14	< 0.5	9	27	17	2.70	< 10	< 1	0.16	10	0.37
BB15151	201	202	< 5	< 0.2	1.96	8	10	260	< 0.5	< 2	0.16	< 0.5	14	31	22	3.95	< 10	< 1	0.66	30	0.62
BB15152	201	202	< 5	< 0.2	2.12	10	10	180	< 0.5	< 2	0.24	< 0.5	11	36	16	3.15	< 10	< 1	0.28	10	0.62
BB15153	201	202	< 5	< 0.2	2.13	10	10	140	< 0.5	< 2	0.15	< 0.5	9	38	14	3.09	< 10	< 1	0.34	10	0.58
BB15154	201	202	< 5	0.2	1.74	8	10	170	< 0.5	< 2	0.22	< 0.5	9	29	12	2.45	< 10	< 1	0.09	10	0.43
BB15155	201	202	< 5	0.2	2.31	12	10	160	< 0.5	< 2	0.24	< 0.5	11	39	19	3.28	< 10	< 1	0.22	30	0.68
BB15156	201	202	< 5	0.2	2.76	16	< 10	240	< 0.5	< 2	0.44	< 0.5	14	71	23	3.62	< 10	< 1	0.34	30	0.97
BB15157	201	202	< 5	0.6	3.57	8	10	170	< 0.5	< 2	0.11	< 0.5	14	50	21	5.00	< 10	< 1	0.86	20	0.97
BB15158	201	202	< 5	< 0.2	2.21	14	10	130	< 0.5	< 2	0.13	< 0.5	7	28	22	3.62	< 10	< 1	0.17	10	0.67
BB15159	201	202	< 5	0.2	2.31	28	10	200	< 0.5	< 2	0.09	< 0.5	10	56	45	3.53	< 10	< 1	0.30	30	0.78
BB15160	201	202	< 5	< 0.2	2.14	32	10	210	< 0.5	< 2	0.14	< 0.5	8	40	24	3.16	< 10	< 1	0.08	10	0.49
BB15161	201	202	< 5	0.2	1.78	50	10	180	< 0.5	< 2	0.18	< 0.5	6	36	19	3.03	< 10	< 1	0.07	10	0.37
BB15162	201	202	< 5	0.2	2.61	22	10	290	< 0.5	< 2	0.27	< 0.5	9	42	25	3.57	< 10	< 1	0.09	10	0.53

CERTIFICATION: 



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To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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Page : 1-B  
Total : 6  
Certificate Date: 26-OCT-1999  
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Account : RDF

Project : EUREKA-EUREKA  
Comments :

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
BB01471	201	202	190	1	0.01	16	290	4 < 0.01	< 2	3	15	0.07	< 10	< 10	32	< 10	52		
BB01472	201	202	180	1	0.01	14	160	16 < 0.01	< 2	4	14	0.06	< 10	< 10	32	< 10	62		
BB01473	201	202	230	1	0.01	19	220	56 < 0.01	< 2	4	17	0.07	< 10	< 10	49	< 10	58		
BB01474	201	202	195	1	0.01	17	160	12 < 0.01	< 2	3	18	0.05	< 10	< 10	54	< 10	44		
BB01475	201	202	220	1	0.01	22	140	8 < 0.01	< 2	5	16	0.06	< 10	< 10	59	< 10	50		
BB06396	201	202	365	1	0.01	23	230	10 < 0.01	< 2	4	20	0.08	< 10	< 10	70	< 10	74		
BB06397	201	202	385	1	0.01	21	260	10 < 0.01	< 2	4	15	0.07	< 10	< 10	60	< 10	62		
BB06398	201	202	350	< 1	0.01	27	160	8 < 0.01	< 2	5	19	0.08	< 10	< 10	66	< 10	66		
BB06399	201	202	260	1	0.01	16	410	8	0.02	< 2	3	19	0.04	< 10	< 10	64	< 10	64	
BB15132	201	202	240	3	0.01	26	970	24	0.09	< 2	5	29	0.08	< 10	< 10	56	< 10	178	
BB15133	201	202	160	1	< 0.01	19	570	180	0.03	< 2	1	16	0.03	< 10	< 10	36	< 10	148	
BB15134	201	202	380	1	0.01	26	250	10 < 0.01	< 2	6	24	0.10	< 10	< 10	65	< 10	66		
BB15135	201	202	385	1	0.01	22	330	8 < 0.01	< 2	4	15	0.14	< 10	< 10	64	< 10	62		
BB15136	201	202	340	< 1	0.01	22	480	6	0.01	< 2	4	16	0.10	< 10	< 10	46	< 10	70	
BB15137	201	202	170	1	< 0.01	17	480	8	0.02	< 2	3	15	0.06	< 10	< 10	42	< 10	58	
BB15138	201	202	200	1	0.01	16	450	8	0.02	< 2	4	16	0.08	< 10	< 10	43	< 10	56	
BB15139	201	202	345	2	0.01	28	500	10	0.01	< 2	4	19	0.12	< 10	< 10	61	< 10	78	
BB15140	201	202	500	< 1	0.01	29	330	6	< 0.01	< 2	8	15	0.18	< 10	< 10	80	< 10	82	
BB15141	201	202	190	1	0.01	14	220	8	0.01	< 2	3	17	0.10	< 10	< 10	66	< 10	42	
BB15142	201	202	275	3	0.01	19	440	16	0.05	< 2	4	23	0.09	< 10	< 10	52	< 10	68	
BB15143	201	202	325	3	0.01	29	310	12	0.04	< 2	3	19	0.11	< 10	< 10	54	< 10	80	
BB15144	201	202	210	1	0.01	22	220	12	0.01	< 2	3	18	0.09	< 10	< 10	54	< 10	68	
BB15145	201	202	240	1	0.01	28	130	10	< 0.01	< 2	4	20	0.08	< 10	< 10	66	< 10	56	
BB15146	201	202	315	2	0.01	20	290	8	< 0.01	< 2	3	17	0.07	< 10	< 10	59	< 10	56	
BB15147	201	202	310	< 1	0.01	18	250	8	< 0.01	< 2	3	21	0.08	< 10	< 10	62	< 10	58	
BB15148	201	202	300	2	0.01	18	550	6	0.02	< 2	5	24	0.07	< 10	< 10	47	< 10	78	
BB15149	201	202	175	1	0.01	17	520	8	0.01	< 2	4	19	0.06	< 10	< 10	47	< 10	62	
BB15150	201	202	260	1	0.01	14	290	8	< 0.01	< 2	3	14	0.09	< 10	< 10	47	< 10	48	
BB15151	201	202	395	1	0.01	25	330	6	0.01	< 2	4	16	0.15	< 10	< 10	45	< 10	68	
BB15152	201	202	350	1	0.01	20	290	6	< 0.01	< 2	4	17	0.12	< 10	< 10	50	< 10	58	
BB15153	201	202	225	< 1	0.01	18	130	8	< 0.01	< 2	3	15	0.14	< 10	< 10	55	< 10	50	
BB15154	201	202	360	1	0.01	14	250	8	< 0.01	< 2	3	20	0.09	< 10	< 10	51	< 10	40	
BB15155	201	202	325	1	0.01	22	190	10	< 0.01	< 2	4	22	0.14	< 10	< 10	57	< 10	60	
BB15156	201	202	600	1	0.01	29	380	14	0.01	< 2	5	25	0.13	< 10	< 10	53	< 10	82	
BB15157	201	202	410	< 1	0.01	31	260	8	< 0.01	< 2	4	12	0.22	< 10	< 10	61	< 10	64	
BB15158	201	202	530	< 1	0.01	18	260	8	< 0.01	< 2	4	13	0.09	< 10	< 10	51	< 10	60	
BB15159	201	202	370	1	0.01	27	300	20	0.06	< 2	5	13	0.09	< 10	< 10	52	< 10	162	
BB15160	201	202	260	1	0.01	21	240	48	< 0.01	< 2	3	17	0.08	< 10	< 10	56	< 10	80	
BB15161	201	202	170	1	0.01	18	260	10	0.01	< 2	3	18	0.07	< 10	< 10	61	< 10	72	
BB15162	201	202	255	2	0.01	23	490	12	0.01	< 2	4	27	0.08	< 10	< 10	58	< 10	76	

CERTIFICATION:



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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 ppm	K %	La ppm	Mg %
BB15163	201 202	< 5	< 0.2	1.80	24	10	160	< 0.5	< 2	0.15	< 0.5	7	34	24	2.77	< 10	< 1	0.20	20	0.51
BB15164	201 202	5	< 0.2	1.83	42	10	140	< 0.5	< 2	0.14	< 0.5	8	34	22	3.38	< 10	< 1	0.10	20	0.46
BB15165	201 202	20	< 0.2	1.71	26	10	150	< 0.5	< 2	0.14	< 0.5	9	34	42	2.89	< 10	< 1	0.18	20	0.51
BB15166	201 202	5	0.2	2.17	16	10	200	< 0.5	< 2	0.12	< 0.5	10	39	38	3.51	< 10	< 1	0.13	20	0.48
BB15167	201 202	< 5	< 0.2	1.80	16	10	320	< 0.5	< 2	0.44	< 0.5	10	35	35	3.02	< 10	< 1	0.07	20	0.57
BB15168	201 202	< 5	< 0.2	1.82	16	10	230	< 0.5	< 2	0.32	< 0.5	11	34	25	3.04	< 10	< 1	0.21	30	0.57
BB15169	201 202	< 5	0.2	2.20	10	10	170	< 0.5	< 2	0.15	< 0.5	12	35	33	3.21	< 10	< 1	0.16	30	0.51
BB15170	201 202	< 5	0.2	1.93	12	10	160	< 0.5	< 2	0.20	< 0.5	10	31	25	3.03	< 10	< 1	0.25	20	0.58
BB15171	201 202	5	< 0.2	1.89	22	10	200	< 0.5	< 2	0.15	< 0.5	10	19	15	3.39	< 10	< 1	0.07	10	0.32
BB15172	201 202	< 5	< 0.2	2.09	14	10	150	< 0.5	< 2	0.14	< 0.5	10	32	21	2.95	< 10	< 1	0.08	10	0.53
BB15173	201 202	10	0.2	2.20	18	< 10	210	< 0.5	< 2	0.18	< 0.5	8	33	18	3.26	< 10	< 1	0.13	10	0.50
BB15174	201 202	10	< 0.2	1.94	16	10	240	< 0.5	< 2	0.28	< 0.5	9	33	23	2.85	< 10	< 1	0.09	10	0.58
BB15175	201 202	25	0.2	2.92	12	10	130	0.5	< 2	0.07	< 0.5	25	39	27	4.59	< 10	< 1	0.42	20	0.64
BB15176	201 202	< 5	0.2	1.87	16	10	120	< 0.5	< 2	0.15	< 0.5	7	33	18	2.88	< 10	< 1	0.15	20	0.46
BB15177	201 202	< 5	< 0.2	2.20	12	< 10	160	< 0.5	< 2	0.16	< 0.5	10	38	12	3.04	< 10	< 1	0.30	10	0.74
BB15178	201 202	< 5	< 0.2	2.30	28	< 10	210	< 0.5	< 2	0.60	< 0.5	14	37	24	3.70	< 10	< 1	0.36	60	0.69
BB15179	201 202	30	< 0.2	1.81	16	10	90	< 0.5	< 2	0.14	< 0.5	11	29	23	3.93	< 10	< 1	0.25	20	0.49
BB15180	201 202	< 5	< 0.2	1.88	12	10	130	< 0.5	< 2	0.20	< 0.5	10	32	24	3.07	< 10	< 1	0.18	30	0.61
BB15181	201 202	< 5	< 0.2	2.23	14	10	140	< 0.5	< 2	0.10	< 0.5	9	36	14	3.58	< 10	< 1	0.06	10	0.47
BB15182	201 202	< 5	< 0.2	1.97	22	10	160	< 0.5	< 2	0.22	< 0.5	10	36	21	2.91	< 10	< 1	0.18	20	0.66
BB15183	201 202	15	0.2	2.54	32	10	230	< 0.5	< 2	0.22	< 0.5	13	50	31	4.11	< 10	< 1	0.54	40	0.97
BB15184	201 202	< 5	< 0.2	1.04	16	< 10	310	< 0.5	< 2	0.54	< 0.5	12	25	25	2.85	< 10	< 1	0.11	10	0.45
BB15185	201 202	< 5	< 0.2	1.53	16	10	220	< 0.5	< 2	0.42	< 0.5	9	28	21	2.56	< 10	< 1	0.07	10	0.46
BB15186	201 202	< 5	< 0.2	1.61	18	< 10	340	< 0.5	< 2	0.57	< 0.5	11	31	31	2.76	< 10	< 1	0.06	10	0.58
BB15187	201 202	< 5	< 0.2	1.98	20	< 10	290	< 0.5	< 2	0.39	< 0.5	10	34	20	2.97	< 10	< 1	0.30	10	0.64
BB15188	201 202	< 5	< 0.2	1.88	18	10	410	< 0.5	< 2	0.48	< 0.5	14	31	29	3.48	< 10	< 1	0.27	30	0.64
BB15189	201 202	< 5	< 0.2	1.84	16	10	230	< 0.5	< 2	0.22	< 0.5	14	30	16	3.01	< 10	< 1	0.07	10	0.44
BB15190	201 202	< 5	< 0.2	1.20	24	10	370	< 0.5	< 2	0.04	< 0.5	6	22	19	2.81	< 10	< 1	0.05	10	0.15
BB15191	201 202	< 5	< 0.2	0.65	10	10	160	< 0.5	< 2	0.04	< 0.5	9	19	22	3.13	< 10	< 1	0.04	10	0.09
BB15192	201 202	< 5	0.2	0.92	72	10	670	< 0.5	< 2	0.33	0.5	28	22	22	5.52	< 10	< 1	0.11	20	0.34
BB15193	201 202	< 5	0.2	2.21	20	10	150	< 0.5	< 2	0.14	< 0.5	8	53	17	3.86	< 10	< 1	0.08	10	0.48
BB15194	201 202	< 5	< 0.2	1.61	16	10	230	< 0.5	< 2	0.48	< 0.5	7	28	18	2.42	< 10	< 1	0.07	10	0.47
BB15195	201 202	< 5	0.2	1.80	20	10	360	< 0.5	< 2	0.82	< 0.5	10	29	29	2.80	< 10	< 1	0.08	10	0.57
BB15196	201 202	< 5	< 0.2	1.94	20	10	370	< 0.5	< 2	0.48	< 0.5	11	38	33	3.38	< 10	< 1	0.15	20	0.62
BB15197	201 202	< 5	0.2	2.31	8	10	230	0.5	< 2	1.58	< 0.5	5	7	27	3.52	< 10	< 1	0.62	40	1.26
BB15198	201 202	< 5	< 0.2	1.96	20	< 10	300	< 0.5	< 2	0.30	< 0.5	11	38	26	3.26	< 10	< 1	0.11	20	0.47
BB15199	201 202	< 5	0.2	2.19	12	< 10	230	< 0.5	< 2	0.16	< 0.5	11	37	17	3.04	< 10	< 1	0.05	10	0.47
BB15200	201 202	< 5	< 0.2	1.35	10	< 10	250	< 0.5	< 2	0.19	< 0.5	7	27	8	2.40	< 10	< 1	0.10	10	0.47
BB15201	201 202	< 5	< 0.2	2.05	18	10	460	< 0.5	< 2	0.59	< 0.5	12	36	22	3.54	< 10	< 1	0.32	30	0.79
BB15202	201 202	< 5	0.2	2.66	14	10	600	< 0.5	< 2	1.07	< 0.5	12	34	18	4.38	10	< 1	0.51	10	1.11

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: EUREKA JOINT VENTURE  
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 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 2-B  
 Total : 6  
 Certificate Date: 26-OCT-1999  
 Invoice No. : 19931092  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments :

## CERTIFICATE OF ANALYSIS

### A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB15163	201	202	195	1	0.01	17	340	12	0.01	< 2	3	16	0.09	< 10	< 10	45	< 10	74
BB15164	201	202	300	1	0.01	21	350	16	0.01	< 2	3	14	0.07	< 10	< 10	51	< 10	114
BB15165	201	202	305	4	0.01	20	350	6	0.02	< 2	4	18	0.09	< 10	< 10	43	< 10	54
BB15166	201	202	220	1	0.01	25	380	10	0.01	< 2	4	18	0.09	< 10	< 10	53	< 10	58
BB15167	201	202	400	2	0.01	28	430	8	< 0.01	< 2	5	31	0.08	< 10	< 10	50	< 10	60
BB15168	201	202	575	1	0.01	28	400	10	0.01	< 2	4	26	0.08	< 10	< 10	41	< 10	60
BB15169	201	202	295	3	0.01	27	310	10	0.01	< 2	4	16	0.09	< 10	< 10	47	< 10	64
BB15170	201	202	270	1	0.01	23	310	10	< 0.01	< 2	4	18	0.10	< 10	< 10	40	< 10	62
BB15171	201	202	595	1	0.01	12	490	16	< 0.01	< 2	4	20	0.03	< 10	< 10	39	< 10	68
BB15172	201	202	290	1	0.01	23	200	8	< 0.01	< 2	3	13	0.07	< 10	< 10	47	< 10	50
BB15173	201	202	275	1	< 0.01	19	360	12	0.03	< 2	3	21	0.08	< 10	< 10	56	< 10	66
BB15174	201	202	265	1	0.01	20	340	8	< 0.01	< 2	4	25	0.08	< 10	< 10	54	< 10	62
BB15175	201	202	1050	3	0.01	24	390	20	0.01	< 2	3	10	0.09	< 10	< 10	44	< 10	98
BB15176	201	202	235	1	0.01	16	530	10	0.01	< 2	3	15	0.05	< 10	< 10	47	< 10	56
BB15177	201	202	440	1	0.01	17	420	8	< 0.01	< 2	4	14	0.13	< 10	< 10	50	< 10	64
BB15178	201	202	940	2	0.01	27	590	10	0.04	< 2	4	44	0.09	< 10	< 10	42	< 10	84
BB15179	201	202	310	3	0.01	22	370	12	0.01	< 2	3	13	0.07	< 10	< 10	42	< 10	66
BB15180	201	202	325	< 1	0.01	23	380	10	0.01	< 2	4	19	0.09	< 10	< 10	45	< 10	60
BB15181	201	202	250	1	0.01	18	200	8	< 0.01	< 2	3	12	0.08	< 10	< 10	64	< 10	52
BB15182	201	202	255	1	0.01	22	450	12	0.04	< 2	3	20	0.07	< 10	< 10	43	< 10	80
BB15183	201	202	415	1	0.02	30	480	18	0.10	< 2	4	25	0.13	< 10	< 10	47	< 10	110
BB15184	201	202	540	2	0.01	30	650	10	0.08	< 2	4	27	0.05	< 10	< 10	38	< 10	106
BB15185	201	202	370	2	0.01	18	430	6	< 0.01	< 2	4	26	0.07	< 10	< 10	42	< 10	54
BB15186	201	202	260	1	0.02	27	550	6	0.01	< 2	5	32	0.07	< 10	< 10	54	< 10	68
BB15187	201	202	500	2	0.01	22	290	6	< 0.01	< 2	5	26	0.10	< 10	< 10	48	< 10	60
BB15188	201	202	755	1	0.01	24	490	6	0.02	< 2	6	27	0.08	< 10	< 10	51	< 10	74
BB15189	201	202	510	1	0.01	16	330	8	< 0.01	< 2	4	16	0.06	< 10	< 10	50	< 10	62
BB15190	201	202	265	2	< 0.01	11	680	30	0.01	< 2	2	14	0.02	< 10	< 10	56	< 10	50
BB15191	201	202	285	1	< 0.01	32	400	12	< 0.01	< 2	3	18	0.01	< 10	< 10	43	< 10	106
BB15192	201	202	4260	5	0.01	41	900	12	0.05	< 2	4	24	0.05	< 10	< 10	42	< 10	164
BB15193	201	202	290	2	0.01	23	570	12	< 0.01	< 2	3	13	0.09	< 10	< 10	70	< 10	64
BB15194	201	202	270	1	0.01	17	490	6	0.01	< 2	4	29	0.08	< 10	< 10	45	< 10	52
BB15195	201	202	435	1	0.01	25	510	8	0.02	< 2	5	44	0.07	< 10	< 10	47	< 10	64
BB15196	201	202	425	3	0.02	28	420	12	< 0.01	< 2	5	29	0.08	< 10	< 10	53	< 10	78
BB15197	201	202	765	2	0.01	8	120	2	< 0.01	< 2	6	36	0.10	< 10	< 10	15	< 10	70
BB15198	201	202	310	1	0.01	30	240	8	< 0.01	< 2	5	24	0.07	< 10	< 10	58	< 10	66
BB15199	201	202	230	1	0.01	22	150	8	< 0.01	< 2	3	14	0.06	< 10	< 10	60	< 10	48
BB15200	201	202	255	1	0.01	13	100	6	< 0.01	< 2	3	13	0.08	< 10	< 10	45	< 10	40
BB15201	201	202	440	3	0.02	22	820	6	< 0.01	< 2	7	28	0.11	< 10	< 10	60	< 10	62
BB15202	201	202	285	< 1	0.01	17	1030	4	0.03	< 2	11	30	0.10	< 10	< 10	78	< 10	72

CERTIFICATION: \_\_\_\_\_



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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
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To: EUREKA JOINT VENTURE  
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BOX 4127, 2054 SECOND AVE.  
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Y1A 3S9

Page: 3-A  
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Invoice No.: I9931092  
P.O. Number:  
Account: RDF

Project: EUREKA-EUREKA  
Comments:

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA		< 0.2	< 0.2	< 0.2	< 10	< 10	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 10	< 1	< 0.10	< 10	< 0.46
BB15203	201	202	30	< 0.2	1.84	56	< 10	170	< 0.5	< 2	0.11	< 0.5	9	28	22	3.32	< 10	< 1	0.10	10	0.46
BB15204	201	202	10	0.2	1.75	22	< 10	230	< 0.5	< 2	0.15	< 0.5	10	30	30	3.09	< 10	< 1	0.08	10	0.45
BB15205	201	202	< 5	< 0.2	1.49	16	< 10	200	< 0.5	< 2	0.18	< 0.5	7	31	15	2.29	< 10	< 1	0.05	10	0.40
BB15206	201	202	25	< 0.2	2.00	16	< 10	320	< 0.5	< 2	0.24	< 0.5	12	33	25	3.46	< 10	< 1	0.16	20	0.50
BB15207	201	202	< 5	< 0.2	1.72	12	< 10	470	< 0.5	< 2	0.13	< 0.5	10	30	29	3.02	< 10	< 1	0.10	20	0.39
BB15208	201	202	< 5	< 0.2	2.59	8	< 10	190	0.5	< 2	0.10	< 0.5	13	38	23	4.85	< 10	< 1	0.70	50	0.69
BB15209	201	202	< 5	< 0.2	1.73	12	< 10	200	< 0.5	< 2	0.18	< 0.5	8	29	18	2.79	< 10	< 1	0.08	20	0.39
BB15210	201	202	< 5	< 0.2	2.09	6	< 10	240	< 0.5	< 2	0.20	< 0.5	9	35	18	2.97	< 10	< 1	0.06	10	0.52
BB15211	201	202	< 5	< 0.2	2.25	12	< 10	230	< 0.5	< 2	0.12	< 0.5	10	37	31	3.36	< 10	< 1	0.06	20	0.43
BB15212	201	202	< 5	< 0.2	2.06	20	< 10	320	< 0.5	< 2	0.13	< 0.5	16	37	34	3.47	< 10	< 1	0.06	20	0.43
BB15213	201	202	< 5	< 0.2	1.17	4	< 10	470	< 0.5	< 2	0.12	< 0.5	6	17	10	1.80	< 10	< 1	0.03	< 10	0.19
BB15214	201	202	< 5	< 0.2	1.32	< 2	< 10	270	0.5	< 2	0.17	< 0.5	16	59	22	4.46	< 10	< 1	0.18	60	0.33
BB15215	201	202	5	< 0.2	1.36	2	< 10	320	< 0.5	< 2	0.65	< 0.5	10	29	22	2.52	< 10	< 1	0.07	10	0.55
BB15216	201	202	< 5	< 0.2	1.88	38	< 10	360	< 0.5	< 2	0.26	< 0.5	9	30	21	2.61	< 10	< 1	0.05	10	0.48
BB15217	201	202	< 5	< 0.2	1.17	24	< 10	450	< 0.5	< 2	0.21	< 0.5	7	19	17	2.34	< 10	< 1	0.17	10	0.33
BB15218	201	202	< 5	< 0.2	1.89	104	< 10	500	< 0.5	< 2	0.18	< 0.5	8	28	21	2.92	< 10	< 1	0.10	10	0.52
BB15219	201	202	< 5	< 0.2	1.77	18	< 10	340	< 0.5	< 2	0.11	< 0.5	10	24	17	2.92	< 10	< 1	0.13	10	0.52
BB15220	201	202	10	0.2	2.17	94	< 10	550	< 0.5	< 2	0.15	< 0.5	13	34	31	3.26	< 10	< 1	0.07	10	0.43
BB15221	201	202	35	< 0.2	1.88	28	< 10	440	< 0.5	< 2	0.15	< 0.5	9	25	24	3.69	< 10	< 1	0.30	20	0.64
BB15222	201	202	15	< 0.2	2.18	26	< 10	580	< 0.5	< 2	0.24	< 0.5	9	31	22	3.52	< 10	< 1	0.20	10	0.66
BB15223	201	202	5	< 0.2	1.72	18	< 10	360	< 0.5	< 2	0.25	< 0.5	8	29	30	2.76	< 10	< 1	0.09	20	0.43
BB15224	201	202	10	< 0.2	1.35	14	< 10	130	< 0.5	< 2	0.21	< 0.5	5	25	12	1.98	< 10	< 1	0.06	10	0.37
BB15225	201	202	< 5	0.2	1.94	16	< 10	270	< 0.5	< 2	0.30	< 0.5	12	33	23	3.01	< 10	< 1	0.08	20	0.54
BB15226	201	202	45	0.2	1.45	46	< 10	160	< 0.5	< 2	0.19	< 0.5	9	28	28	2.88	< 10	< 1	0.09	10	0.39
BB15227	201	202	5	< 0.2	2.04	8	< 10	190	< 0.5	< 2	0.18	< 0.5	10	34	21	3.21	< 10	< 1	0.09	10	0.51
BB15228	201	202	5	0.2	2.95	16	< 10	1390	< 0.5	< 2	0.69	< 0.5	15	28	96	3.99	< 10	< 1	0.20	30	0.88
BB15229	201	202	< 5	< 0.2	2.44	18	< 10	890	< 0.5	< 2	0.33	< 0.5	15	24	66	3.56	< 10	< 1	0.14	10	0.89
BB15230	201	202	< 5	< 0.2	1.93	16	< 10	720	< 0.5	< 2	0.36	< 0.5	8	28	31	2.61	< 10	< 1	0.12	10	0.71
BB15231	201	202	10	< 0.2	1.19	50	< 10	370	< 0.5	< 2	0.12	< 0.5	6	21	19	2.16	< 10	< 1	0.09	20	0.22
BB15232	201	202	< 5	< 0.2	1.78	24	< 10	200	< 0.5	< 2	0.13	< 0.5	8	29	24	2.82	< 10	< 1	0.11	10	0.41
BB15233	201	202	< 5	< 0.2	1.90	28	< 10	250	< 0.5	< 2	0.16	< 0.5	9	31	22	2.97	< 10	< 1	0.07	10	0.46
BB15234	201	202	20	0.2	1.35	130	< 10	270	< 0.5	< 2	0.16	< 0.5	5	23	19	2.39	< 10	< 1	0.06	10	0.35
BB15235	201	202	10	< 0.2	1.04	34	< 10	320	< 0.5	< 2	0.14	< 0.5	7	22	25	2.74	< 10	< 1	0.06	20	0.25
BB15236	201	202	10	< 0.2	1.88	16	< 10	490	< 0.5	< 2	0.60	< 0.5	14	37	41	3.27	< 10	< 1	0.12	20	0.55
BB15237	201	202	10	< 0.2	1.82	16	< 10	220	< 0.5	< 2	0.22	< 0.5	13	31	20	3.13	< 10	< 1	0.11	20	0.43
BB15238	201	202	5	< 0.2	1.88	14	< 10	210	< 0.5	< 2	0.26	< 0.5	9	31	19	3.27	< 10	< 1	0.12	20	0.48
BB15239	201	202	< 5	< 0.2	1.80	18	< 10	290	< 0.5	< 2	0.17	< 0.5	8	29	16	3.08	< 10	< 1	0.11	10	0.35
BB15240	201	202	25	< 0.2	1.56	14	< 10	170	< 0.5	< 2	0.14	< 0.5	10	32	28	3.42	< 10	< 1	0.14	30	0.37
BB15241	201	202	10	0.2	1.84	14	< 10	240	< 0.5	< 2	0.19	< 0.5	8	33	24	2.83	< 10	< 1	0.11	20	0.42
BB15242	201	202	< 5	< 0.2	1.82	8	< 10	250	< 0.5	< 2	0.24	< 0.5	9	43	18	2.91	< 10	< 1	0.08	20	0.53

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## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB15203	201	202	390	< 1	< 0.01	16	400	16	< 0.01	< 2	4	13	0.05	< 10	< 10	56	< 10	68
BB15204	201	202	210	< 1	< 0.01	20	470	26	0.01	2	5	13	0.05	< 10	< 10	47	< 10	92
BB15205	201	202	135	< 1	< 0.01	16	530	16	0.03	< 2	3	16	0.04	< 10	< 10	35	< 10	74
BB15206	201	202	330	< 1	< 0.01	23	430	12	0.01	2	5	21	0.07	< 10	< 10	50	< 10	78
BB15207	201	202	235	< 1	< 0.01	20	300	26	0.01	< 2	3	19	0.06	< 10	< 10	51	< 10	56
BB15208	201	202	230	< 1	< 0.01	30	770	10	0.03	2	5	14	0.14	< 10	< 10	48	< 10	66
BB15209	201	202	260	< 1	< 0.01	16	390	14	< 0.01	< 2	3	23	0.08	< 10	< 10	56	< 10	52
BB15210	201	202	250	< 1	0.01	18	330	10	< 0.01	< 2	4	22	0.08	< 10	< 10	59	< 10	62
BB15211	201	202	255	< 1	< 0.01	23	230	12	< 0.01	2	5	24	0.07	< 10	< 10	63	< 10	64
BB15212	201	202	405	< 1	< 0.01	30	300	12	< 0.01	< 2	6	25	0.06	< 10	< 10	54	< 10	80
BB15213	201	202	580	< 1	< 0.01	9	390	10	< 0.01	< 2	2	13	0.05	< 10	< 10	43	< 10	34
BB15214	201	202	900	< 1	< 0.01	36	610	18	< 0.01	< 2	8	14	0.04	< 10	< 10	45	< 10	102
BB15215	201	202	315	< 1	0.01	23	720	10	0.01	< 2	4	34	0.07	< 10	< 10	47	< 10	72
BB15216	201	202	225	< 1	0.01	20	180	20	< 0.01	< 2	3	23	0.07	< 10	< 10	54	< 10	44
BB15217	201	202	580	< 1	< 0.01	14	450	30	0.01	2	3	24	0.07	< 10	< 10	38	< 10	40
BB15218	201	202	315	< 1	< 0.01	20	340	38	< 0.01	2	4	27	0.07	< 10	< 10	54	< 10	52
BB15219	201	202	480	< 1	< 0.01	15	340	14	< 0.01	2	4	18	0.08	< 10	< 10	46	< 10	50
BB15220	201	202	330	< 1	< 0.01	20	610	30	0.01	2	5	34	0.04	< 10	< 10	61	< 10	70
BB15221	201	202	315	< 1	< 0.01	18	410	10	0.01	< 2	8	27	0.10	< 10	< 10	56	< 10	64
BB15222	201	202	500	< 1	0.01	23	270	10	< 0.01	2	6	29	0.09	< 10	< 10	63	< 10	62
BB15223	201	202	355	< 1	0.01	18	800	12	0.04	< 2	4	22	0.05	< 10	< 10	43	< 10	70
BB15224	201	202	130	< 1	< 0.01	14	450	14	0.03	< 2	3	18	0.06	< 10	< 10	38	< 10	64
BB15225	201	202	340	< 1	0.01	22	670	18	0.03	< 2	5	24	0.07	< 10	< 10	55	< 10	124
BB15226	201	202	270	2	< 0.01	15	620	12	0.02	2	3	20	0.06	< 10	< 10	49	< 10	62
BB15227	201	202	275	< 1	0.01	20	400	14	0.01	< 2	4	19	0.07	< 10	< 10	55	< 10	72
BB15228	201	202	855	< 1	0.01	34	770	10	0.03	< 2	11	43	0.07	< 10	< 10	71	< 10	114
BB15229	201	202	715	< 1	0.01	19	340	8	< 0.01	< 2	6	27	0.14	< 10	< 10	75	< 10	72
BB15230	201	202	290	< 1	0.01	18	340	8	< 0.01	< 2	5	31	0.10	< 10	< 10	60	< 10	62
BB15231	201	202	120	< 1	< 0.01	14	510	20	0.03	2	3	28	0.05	< 10	< 10	47	< 10	54
BB15232	201	202	160	< 1	< 0.01	21	340	12	< 0.01	2	3	14	0.08	< 10	< 10	52	< 10	84
BB15233	201	202	195	< 1	< 0.01	20	290	12	< 0.01	2	3	17	0.07	< 10	< 10	57	< 10	70
BB15234	201	202	105	< 1	< 0.01	14	560	46	0.01	< 2	2	22	0.03	< 10	< 10	45	< 10	58
BB15235	201	202	210	< 1	< 0.01	21	440	12	< 0.01	< 2	4	22	0.04	< 10	< 10	43	< 10	76
BB15236	201	202	545	< 1	0.01	35	570	16	0.03	< 2	6	42	0.07	< 10	< 10	55	< 10	78
BB15237	201	202	410	< 1	0.01	22	590	12	0.01	< 2	4	21	0.08	< 10	< 10	57	< 10	82
BB15238	201	202	400	< 1	0.01	21	510	14	0.01	< 2	3	25	0.08	< 10	< 10	63	< 10	78
BB15239	201	202	240	< 1	0.01	17	610	12	0.01	< 2	3	18	0.06	< 10	< 10	64	< 10	78
BB15240	201	202	210	< 1	< 0.01	28	580	12	0.03	< 2	4	19	0.06	< 10	< 10	59	< 10	104
BB15241	201	202	205	< 1	0.01	20	460	12	0.03	2	4	21	0.07	< 10	< 10	60	< 10	70
BB15242	201	202	245	< 1	0.01	27	350	10	0.01	< 2	4	23	0.08	< 10	< 10	54	< 10	70

CERTIFICATION:



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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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To: EUREKA JOINT VENTURE  
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BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project: EUREKA-EUREKA  
Comments:

Page: 4-A  
Total: 6  
Certificate Date: 26-OCT-1999  
Invoice No.: I9931092  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
BB15243	201	202	5	< 0.2	1.95	8	< 10	330	< 0.5	< 2	0.16	< 0.5	9	35	25	2.88	< 10	< 1	0.11	10	0.50
BB15244	201	202	15	< 0.2	1.87	6	< 10	340	< 0.5	< 2	0.13	< 0.5	10	32	25	2.93	< 10	< 1	0.14	10	0.53
BB15245	201	202	5	0.2	1.89	2	< 10	500	< 0.5	< 2	0.72	< 0.5	9	24	37	2.42	< 10	< 1	0.07	10	1.06
BB15246	201	202	< 5	0.2	1.69	10	< 10	300	< 0.5	< 2	0.13	< 0.5	8	26	23	2.66	< 10	< 1	0.06	10	0.44
BB15247	201	202	< 5	< 0.2	2.27	8	< 10	120	< 0.5	< 2	0.17	< 0.5	10	32	12	3.42	< 10	< 1	0.59	30	0.71
BB15248	201	202	< 5	< 0.2	3.13	< 2	< 10	160	0.5	< 2	0.19	< 0.5	13	39	23	4.17	< 10	< 1	0.74	30	0.85
BB15249	201	202	< 5	< 0.2	2.43	8	< 10	190	< 0.5	< 2	0.14	< 0.5	10	38	14	3.48	< 10	< 1	0.18	10	0.61
BB15250	201	202	15	< 0.2	1.80	26	< 10	260	< 0.5	< 2	0.14	< 0.5	9	29	22	2.72	< 10	< 1	0.09	20	0.38
BB15859	201	202	< 5	< 0.2	2.06	14	< 10	180	< 0.5	< 2	0.18	< 0.5	8	35	19	2.76	< 10	< 1	0.06	10	0.48
BB15860	201	202	5	< 0.2	2.27	14	< 10	220	< 0.5	< 2	0.19	< 0.5	9	32	16	3.37	< 10	< 1	0.08	10	0.37
BB15861	201	202	5	< 0.2	2.66	16	< 10	300	< 0.5	< 2	0.20	< 0.5	14	42	24	3.08	< 10	< 1	0.06	10	0.58
BB15862	201	202	120	0.2	1.56	18	< 10	210	< 0.5	< 2	0.31	< 0.5	8	27	16	2.23	< 10	< 1	0.07	10	0.47
BB15863	201	202	40	0.6	1.77	14	< 10	380	< 0.5	< 2	0.15	< 0.5	6	47	24	2.54	< 10	< 1	0.08	10	0.40
BB15864	201	202	5	< 0.2	2.02	10	< 10	290	< 0.5	< 2	0.25	< 0.5	9	35	25	2.83	< 10	< 1	0.08	20	0.52
BB15865	201	202	< 5	< 0.2	2.19	16	< 10	370	< 0.5	< 2	0.25	< 0.5	10	35	29	2.86	< 10	< 1	0.08	10	0.49
BB15866	201	202	< 5	< 0.2	2.25	18	< 10	210	< 0.5	< 2	0.25	< 0.5	7	29	14	2.87	< 10	< 1	0.13	10	0.59
BB15867	201	202	< 5	< 0.2	2.48	2	< 10	290	< 0.5	< 2	0.52	< 0.5	11	37	12	3.55	< 10	< 1	0.55	20	1.00
BB15868	201	202	< 5	< 0.2	1.36	18	< 10	170	< 0.5	< 2	0.09	< 0.5	8	27	22	3.06	< 10	< 1	0.16	10	0.36
BB15869	201	202	< 5	< 0.2	2.01	6	< 10	220	< 0.5	< 2	0.53	< 0.5	14	30	25	3.25	< 10	< 1	0.46	50	0.80
BB15870	201	202	< 5	< 0.2	0.83	54	< 10	360	< 0.5	< 2	0.30	< 0.5	12	19	27	2.93	< 10	< 1	0.09	20	0.24
BB15871	201	202	< 5	< 0.2	1.42	26	< 10	330	< 0.5	< 2	0.69	0.5	10	28	32	2.76	< 10	< 1	0.05	30	0.39
BB15872	201	202	5	< 0.2	1.89	10	< 10	420	< 0.5	< 2	0.52	< 0.5	10	34	27	2.93	< 10	< 1	0.08	20	0.57
BB15873	201	202	< 5	< 0.2	1.57	18	< 10	500	< 0.5	< 2	0.20	< 0.5	9	27	27	2.64	< 10	< 1	0.06	10	0.33
BB15874	201	202	< 5	< 0.2	1.59	40	< 10	320	< 0.5	< 2	0.19	< 0.5	7	28	17	2.42	< 10	< 1	0.07	10	0.34
BB15875	201	202	< 5	< 0.2	1.65	18	< 10	300	< 0.5	< 2	0.19	< 0.5	9	29	21	2.38	< 10	< 1	0.04	10	0.39
BB15876	201	202	< 5	< 0.2	1.55	28	< 10	520	< 0.5	< 2	0.19	< 0.5	7	26	18	2.48	< 10	< 1	0.07	10	0.33
BB15877	201	202	< 5	< 0.2	2.20	42	< 10	410	< 0.5	< 2	0.18	< 0.5	8	35	21	2.89	< 10	< 1	0.06	10	0.51
BB15878	201	202	< 5	< 0.2	1.76	10	< 10	200	< 0.5	< 2	0.35	< 0.5	9	31	11	2.70	< 10	< 1	0.14	20	0.61
BB15879	201	202	< 5	< 0.2	2.34	14	< 10	360	< 0.5	< 2	0.37	< 0.5	11	37	18	3.21	< 10	< 1	0.21	30	0.77
BB15880	201	202	< 5	< 0.2	1.33	14	< 10	250	< 0.5	< 2	0.22	< 0.5	8	24	17	2.25	< 10	< 1	0.09	20	0.32
BB15881	201	202	< 5	< 0.2	1.80	10	< 10	240	< 0.5	< 2	0.18	< 0.5	11	35	17	3.09	< 10	< 1	0.20	10	0.52
BB15882	201	202	< 5	0.8	1.63	< 2	< 10	230	< 0.5	< 2	0.12	< 0.5	8	25	15	2.59	< 10	< 1	0.05	10	0.33
BB15883	201	202	< 5	< 0.2	1.76	8	< 10	240	< 0.5	< 2	0.09	< 0.5	8	28	16	2.75	< 10	< 1	0.04	10	0.31
BB15884	201	202	< 5	< 0.2	1.67	14	< 10	280	< 0.5	< 2	0.11	< 0.5	10	29	29	2.86	< 10	< 1	0.07	10	0.37
BB15885	201	202	< 5	0.2	1.86	14	< 10	380	< 0.5	< 2	0.27	< 0.5	9	32	25	2.84	< 10	< 1	0.10	20	0.41
BB15886	201	202	< 5	< 0.2	2.36	14	< 10	420	< 0.5	< 2	0.27	< 0.5	11	37	20	3.07	< 10	< 1	0.14	10	0.54
BB15887	201	202	< 5	< 0.2	1.90	20	< 10	620	< 0.5	< 2	0.25	< 0.5	8	32	14	2.99	< 10	< 1	0.10	20	0.43
BB15888	201	202	< 5	< 0.2	2.59	< 2	< 10	200	< 0.5	< 2	0.17	< 0.5	12	37	18	3.44	< 10	< 1	0.08	10	0.45
BB15889	201	202	< 5	< 0.2	2.21	8	< 10	300	< 0.5	< 2	0.22	< 0.5	10	34	11	2.56	< 10	< 1	0.05	10	0.41
BB15890	201	202	< 5	< 0.2	2.03	32	< 10	280	< 0.5	< 2	0.13	< 0.5	10	45	17	3.18	< 10	< 1	0.06	10	0.32

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Page : 4-B  
Total : 6  
Certificate Date: 26-OCT-1999  
Invoice No. : 19931092  
P.O. Number :  
Account : RDF

Project : EUREKA-EUREKA  
Comments:

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB15243	201	202	235	< 1	< 0.01	22	410	12	0.01	< 2	4	17	0.08	< 10	< 10	57	< 10	76
BB15244	201	202	455	< 1	< 0.01	27	380	18	0.01	< 2	4	14	0.09	< 10	< 10	60	< 10	94
BB15245	201	202	430	< 1	0.01	28	600	8	0.04	< 2	6	32	0.07	< 10	< 10	47	< 10	106
BB15246	201	202	350	< 1	< 0.01	20	510	12	0.03	< 2	3	17	0.05	< 10	< 10	48	< 10	76
BB15247	201	202	320	< 1	< 0.01	18	560	12	0.01	< 2	4	9	0.14	< 10	< 10	38	< 10	66
BB15248	201	202	405	< 1	< 0.01	25	380	16	< 0.01	< 2	5	13	0.15	< 10	< 10	46	< 10	74
BB15249	201	202	350	< 1	< 0.01	19	270	10	< 0.01	2	4	14	0.11	< 10	< 10	59	< 10	52
BB15250	201	202	190	< 1	< 0.01	19	240	14	< 0.01	< 2	3	23	0.07	< 10	< 10	52	< 10	60
BB15859	201	202	195	< 1	0.01	18	170	12	< 0.01	2	4	20	0.08	< 10	< 10	60	< 10	46
BB15860	201	202	240	< 1	0.01	16	400	10	0.01	< 2	4	21	0.09	< 10	< 10	79	< 10	54
BB15861	201	202	260	< 1	0.01	24	150	12	< 0.01	< 2	4	23	0.10	< 10	< 10	65	< 10	56
BB15862	201	202	150	< 1	0.01	16	560	12	0.01	2	3	29	0.08	< 10	< 10	48	< 10	62
BB15863	201	202	145	1	< 0.01	18	390	18	0.01	< 2	4	21	0.05	< 10	< 10	50	< 10	54
BB15864	201	202	250	< 1	0.01	20	430	10	< 0.01	< 2	5	24	0.08	< 10	< 10	59	< 10	64
BB15865	201	202	300	< 1	0.01	21	390	22	0.01	< 2	5	28	0.08	< 10	< 10	62	< 10	60
BB15866	201	202	180	< 1	0.01	13	420	10	< 0.01	< 2	4	22	0.11	< 10	< 10	64	< 10	50
BB15867	201	202	460	< 1	0.01	14	950	8	0.01	< 2	6	32	0.13	< 10	< 10	71	< 10	82
BB15868	201	202	135	1	< 0.01	21	480	12	0.01	< 2	3	16	0.07	< 10	< 10	57	< 10	52
BB15869	201	202	375	< 1	0.01	21	870	10	0.01	< 2	6	24	0.10	< 10	< 10	56	< 10	94
BB15870	201	202	700	1	< 0.01	22	680	16	0.02	< 2	4	28	0.04	< 10	< 10	40	< 10	76
BB15871	201	202	500	< 1	0.01	25	550	24	0.03	< 2	6	28	0.05	< 10	< 10	46	< 10	146
BB15872	201	202	345	< 1	0.01	23	620	12	0.01	< 2	6	36	0.09	< 10	< 10	58	< 10	84
BB15873	201	202	315	< 1	< 0.01	19	340	14	0.01	< 2	4	25	0.06	< 10	< 10	46	< 10	72
BB15874	201	202	250	< 1	< 0.01	16	200	12	< 0.01	< 2	3	23	0.07	< 10	< 10	59	< 10	42
BB15875	201	202	310	< 1	< 0.01	16	210	26	< 0.01	4	4	22	0.08	< 10	< 10	48	< 10	46
BB15876	201	202	200	< 1	< 0.01	13	520	20	< 0.01	< 2	3	32	0.07	< 10	< 10	61	< 10	42
BB15877	201	202	230	< 1	0.01	20	240	14	< 0.01	< 2	4	27	0.07	< 10	< 10	65	< 10	54
BB15878	201	202	250	< 1	0.01	15	390	12	< 0.01	< 2	5	23	0.09	< 10	< 10	56	< 10	42
BB15879	201	202	380	< 1	0.01	18	500	10	< 0.01	< 2	7	31	0.10	< 10	< 10	65	< 10	66
BB15880	201	202	430	< 1	< 0.01	13	460	14	0.01	< 2	3	22	0.06	< 10	< 10	50	< 10	50
BB15881	201	202	435	< 1	< 0.01	21	830	12	< 0.01	< 2	4	15	0.08	< 10	< 10	59	< 10	86
BB15882	201	202	170	< 1	< 0.01	14	180	14	< 0.01	2	3	12	0.07	< 10	< 10	58	< 10	48
BB15883	201	202	195	< 1	< 0.01	15	230	12	< 0.01	2	3	13	0.05	< 10	< 10	55	< 10	56
BB15884	201	202	290	< 1	< 0.01	24	230	12	0.01	< 2	4	18	0.05	< 10	< 10	49	< 10	70
BB15885	201	202	275	< 1	0.01	21	230	12	< 0.01	2	4	30	0.07	< 10	< 10	61	< 10	60
BB15886	201	202	325	< 1	0.01	23	320	14	< 0.01	< 2	4	30	0.09	< 10	< 10	74	< 10	70
BB15887	201	202	205	< 1	0.01	18	350	12	0.01	2	3	27	0.08	< 10	< 10	72	< 10	58
BB15888	201	202	365	< 1	0.01	20	400	12	< 0.01	6	4	18	0.09	< 10	< 10	75	< 10	66
BB15889	201	202	220	< 1	0.01	18	180	10	< 0.01	< 2	4	21	0.09	< 10	< 10	64	< 10	56
BB15890	201	202	410	< 1	< 0.01	22	390	14	< 0.01	< 2	4	23	0.06	< 10	< 10	72	< 10	74

CERTIFICATION:



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## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA		< 5	< 0.2	1.80	20	< 10	310	< 0.5	< 2	0.17	< 0.5	7	29	16	2.81	< 10	< 1	0.07	10	0.30
BB15891	201	202	< 5	< 0.2	1.80	20	< 10	310	< 0.5	< 2	0.17	< 0.5	7	29	16	2.81	< 10	< 1	0.07	10	0.30
BB15892	201	202	10	< 0.2	1.52	28	< 10	330	< 0.5	< 2	0.11	< 0.5	6	28	26	2.27	< 10	< 1	0.07	20	0.26
BB15893	201	202	< 5	< 0.2	1.21	< 2	< 10	260	< 0.5	< 2	0.13	< 0.5	10	23	17	2.32	< 10	< 1	0.09	20	0.28
BB15894	201	202	10	< 0.2	1.36	< 2	< 10	360	< 0.5	< 2	0.60	< 0.5	11	28	28	2.92	< 10	< 1	0.09	10	0.56
BB15895	201	202	< 5	< 0.2	1.70	2	< 10	380	< 0.5	< 2	0.43	< 0.5	11	33	33	3.06	< 10	< 1	0.11	10	0.54
BB15896	201	202	< 5	0.2	1.91	< 2	< 10	280	< 0.5	< 2	0.14	< 0.5	9	28	23	2.70	< 10	< 1	0.06	10	0.35
BB15897	201	202	< 5	< 0.2	1.51	6	< 10	220	< 0.5	< 2	0.17	< 0.5	8	27	19	2.50	< 10	< 1	0.06	20	0.34
BB15898	201	202	10	< 0.2	1.53	6	< 10	240	< 0.5	< 2	0.16	< 0.5	7	26	19	2.51	< 10	< 1	0.09	20	0.34
BB15899	201	202	< 5	< 0.2	2.06	4	< 10	290	< 0.5	< 2	0.20	< 0.5	10	32	21	2.98	< 10	< 1	0.10	20	0.45
BB15900	201	202	< 5	< 0.2	1.83	10	< 10	310	< 0.5	< 2	0.22	< 0.5	7	28	19	2.80	< 10	< 1	0.16	10	0.47
BB15901	201	202	< 5	< 0.2	1.85	4	< 10	500	< 0.5	< 2	0.33	< 0.5	11	32	26	2.81	< 10	< 1	0.12	10	0.46
BB15902	201	202	< 5	< 0.2	1.94	8	< 10	220	< 0.5	< 2	0.20	< 0.5	9	35	20	3.04	< 10	< 1	0.12	20	0.52
BB15903	201	202	10	< 0.2	1.87	< 2	< 10	210	< 0.5	< 2	0.20	< 0.5	8	35	18	2.76	< 10	< 1	0.10	20	0.48
BB15904	201	202	10	0.2	1.75	8	< 10	270	< 0.5	< 2	0.20	< 0.5	8	29	20	2.56	< 10	< 1	0.10	10	0.40
BB15905	201	202	< 5	< 0.2	1.92	10	< 10	270	< 0.5	< 2	0.27	< 0.5	8	38	19	2.99	< 10	< 1	0.17	10	0.60
BB15906	201	202	10	< 0.2	1.87	10	< 10	340	< 0.5	< 2	0.45	< 0.5	17	50	28	3.33	< 10	< 1	0.19	20	0.58
BB15907	201	202	< 5	< 0.2	1.97	< 2	< 10	230	< 0.5	< 2	0.30	< 0.5	9	29	10	2.75	< 10	< 1	0.15	10	0.50
BB15908	201	202	< 5	< 0.2	1.41	10	< 10	200	< 0.5	< 2	0.09	< 0.5	9	27	23	2.59	< 10	< 1	0.05	10	0.38
BB15910	201	202	< 5	< 0.2	1.54	< 2	< 10	170	< 0.5	< 2	0.10	< 0.5	7	23	14	2.87	< 10	< 1	0.05	10	0.32
BB15912	201	202	< 5	0.2	0.65	10	< 10	250	< 0.5	< 2	0.14	< 0.5	6	16	24	2.48	< 10	< 1	0.06	10	0.06
BB15913	201	202	5	< 0.2	1.73	16	< 10	220	< 0.5	< 2	0.17	< 0.5	7	34	28	2.62	< 10	< 1	0.08	20	0.42
BB15914	201	202	< 5	< 0.2	1.95	2	< 10	280	< 0.5	< 2	0.29	< 0.5	9	35	22	2.74	< 10	< 1	0.08	20	0.46
BB15915	201	202	< 5	< 0.2	1.76	10	< 10	270	< 0.5	< 2	0.30	< 0.5	7	28	19	2.48	< 10	< 1	0.06	10	0.39
BB15916	201	202	< 5	< 0.2	1.74	18	< 10	270	< 0.5	< 2	0.30	< 0.5	9	32	21	2.64	< 10	< 1	0.08	20	0.45
BB15917	201	202	< 5	< 0.2	1.39	8	< 10	260	< 0.5	< 2	0.67	< 0.5	9	27	27	2.51	< 10	< 1	0.08	10	0.52
BB15918	201	202	< 5	< 0.2	1.01	18	< 10	180	< 0.5	< 2	0.43	< 0.5	6	21	13	1.97	< 10	< 1	0.05	< 10	0.40
BB15920	201	202	< 5	< 0.2	1.48	14	< 10	320	< 0.5	< 2	0.56	< 0.5	10	29	30	2.59	< 10	< 1	0.06	10	0.57
BB15921	201	202	< 5	< 0.2	1.72	12	< 10	290	< 0.5	< 2	0.42	< 0.5	8	31	21	2.74	< 10	< 1	0.07	10	0.55
BB15922	201	202	< 5	< 0.2	1.27	16	< 10	200	< 0.5	< 2	0.31	< 0.5	10	24	12	2.49	< 10	< 1	0.06	20	0.32
BB15923	201	202	< 5	< 0.2	1.66	8	< 10	350	< 0.5	< 2	0.45	< 0.5	9	27	25	2.22	< 10	< 1	0.04	10	0.36
BB15924	201	202	< 5	< 0.2	1.50	2	< 10	290	< 0.5	< 2	0.41	< 0.5	6	25	21	2.11	< 10	< 1	0.04	20	0.36
BB15925	201	202	< 5	< 0.2	2.06	12	< 10	420	< 0.5	< 2	0.40	< 0.5	7	29	23	2.70	< 10	< 1	0.06	30	0.36
BB15926	201	202	< 5	< 0.2	1.98	16	< 10	260	< 0.5	< 2	0.22	< 0.5	9	26	15	2.55	< 10	< 1	0.08	20	0.36
BB15927	201	202	< 5	< 0.2	1.33	8	< 10	150	< 0.5	< 2	0.23	< 0.5	5	20	11	1.88	< 10	< 1	0.07	30	0.34
BB15928	201	202	< 5	< 0.2	1.27	14	< 10	190	< 0.5	< 2	0.24	< 0.5	7	22	14	2.24	< 10	< 1	0.10	40	0.37
BB15929	201	202	< 5	< 0.2	2.04	16	< 10	210	< 0.5	< 2	0.22	< 0.5	7	29	14	3.00	< 10	< 1	0.17	40	0.51
BB15930	201	202	< 5	< 0.2	1.65	22	< 10	310	< 0.5	< 2	0.15	< 0.5	8	30	27	2.63	< 10	< 1	0.06	10	0.32
BB15931	201	202	< 5	< 0.2	2.95	12	< 10	210	< 0.5	< 2	0.12	< 0.5	10	44	13	3.80	< 10	< 1	0.24	10	0.78
BB15932	201	202	< 5	< 0.2	1.93	8	< 10	320	< 0.5	< 2	0.26	< 0.5	9	33	14	2.65	< 10	< 1	0.09	10	0.50
BB15933	201	202	< 5	< 0.2	1.37	14	< 10	240	< 0.5	< 2	0.33	< 0.5	8	23	28	2.76	< 10	< 1	0.12	30	0.42

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

Project: EUREKA JOINT VENTURE  
 Comments: C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page: 5-B  
 Total: 6  
 Certificate Date: 26-OCT-1999  
 Invoice No.: 19931092  
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 Account: RDF

## CERTIFICATE OF ANALYSIS

### A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB15891	201	202	350	< 1	< 0.01	15	330	10	0.01	< 2	3	22	0.07	< 10	< 10	71	< 10	54
BB15892	201	202	150	< 1	< 0.01	14	290	14	< 0.01	< 2	3	30	0.06	< 10	< 10	51	< 10	40
BB15893	201	202	315	< 1	< 0.01	19	390	12	< 0.01	< 2	3	17	0.06	< 10	< 10	47	< 10	72
BB15894	201	202	340	< 1	0.01	25	740	12	0.02	< 2	4	38	0.07	< 10	< 10	51	< 10	86
BB15895	201	202	355	< 1	0.01	31	600	12	< 0.01	< 2	5	29	0.08	< 10	< 10	54	< 10	94
BB15896	201	202	250	< 1	< 0.01	16	430	12	0.01	< 2	3	18	0.06	< 10	< 10	55	< 10	58
BB15897	201	202	165	< 1	< 0.01	16	360	12	< 0.01	< 2	3	22	0.07	< 10	< 10	50	< 10	60
BB15898	201	202	200	< 1	< 0.01	16	350	10	0.01	< 2	4	20	0.06	< 10	< 10	49	< 10	54
BB15899	201	202	285	< 1	0.01	18	280	12	< 0.01	< 2	4	26	0.08	< 10	< 10	57	< 10	58
BB15900	201	202	260	< 1	0.01	18	250	8	< 0.01	< 2	5	23	0.09	< 10	< 10	49	< 10	58
BB15901	201	202	395	< 1	0.01	25	280	12	0.01	< 2	4	32	0.08	< 10	< 10	58	< 10	62
BB15902	201	202	230	< 1	0.01	20	320	10	0.01	< 2	4	19	0.09	< 10	< 10	53	< 10	68
BB15903	201	202	190	< 1	< 0.01	19	360	12	0.02	< 2	4	18	0.07	< 10	< 10	48	< 10	60
BB15904	201	202	240	< 1	0.01	18	390	12	0.01	< 2	3	22	0.06	< 10	< 10	51	< 10	60
BB15905	201	202	240	< 1	0.01	21	300	14	0.03	< 2	4	25	0.10	< 10	< 10	54	< 10	68
BB15906	201	202	585	< 1	0.02	48	540	14	0.01	< 2	6	29	0.10	< 10	< 10	58	< 10	72
BB15907	201	202	265	< 1	0.01	16	530	10	< 0.01	< 2	4	22	0.09	< 10	< 10	54	< 10	52
BB15908	201	202	275	< 1	< 0.01	18	140	10	< 0.01	< 2	4	10	0.04	< 10	< 10	40	< 10	48
BB15910	201	202	195	< 1	< 0.01	14	210	16	< 0.01	< 2	2	9	0.05	< 10	< 10	50	< 10	38
BB15912	201	202	290	< 1	< 0.01	24	560	8	0.01	< 2	1	22	0.01	< 10	< 10	43	< 10	72
BB15913	201	202	155	< 1	< 0.01	20	400	12	< 0.01	< 2	4	5	0.06	< 10	< 10	56	< 10	62
BB15914	201	202	235	< 1	0.01	19	390	10	< 0.01	< 2	5	25	0.08	< 10	< 10	50	< 10	62
BB15915	201	202	190	< 1	0.01	16	400	10	< 0.01	< 2	4	25	0.07	< 10	< 10	46	< 10	54
BB15916	201	202	245	< 1	0.01	18	470	10	< 0.01	< 2	4	25	0.08	< 10	< 10	45	< 10	62
BB15917	201	202	345	< 1	0.01	23	620	10	0.01	< 2	4	37	0.06	< 10	< 10	45	< 10	64
BB15918	201	202	170	< 1	0.01	14	630	8	< 0.01	< 2	2	24	0.04	< 10	< 10	35	< 10	46
BB15920	201	202	305	< 1	0.01	25	560	10	< 0.01	< 2	4	28	0.07	< 10	< 10	48	< 10	54
BB15921	201	202	215	< 1	0.01	22	660	10	< 0.01	< 2	4	27	0.07	< 10	< 10	50	< 10	70
BB15922	201	202	405	< 1	< 0.01	13	690	12	0.01	< 2	3	22	0.06	< 10	< 10	50	< 10	54
BB15923	201	202	185	< 1	0.01	19	600	10	0.03	< 2	4	34	0.06	< 10	< 10	39	< 10	46
BB15924	201	202	125	< 1	< 0.01	14	470	10	0.01	< 2	4	31	0.06	< 10	< 10	38	< 10	42
BB15925	201	202	285	< 1	0.01	17	400	14	0.01	< 2	5	34	0.06	< 10	< 10	42	< 10	48
BB15926	201	202	355	< 1	0.01	14	490	12	< 0.01	< 2	4	19	0.06	< 10	< 10	45	< 10	56
BB15927	201	202	140	< 1	0.01	10	340	10	< 0.01	< 2	3	18	0.06	< 10	< 10	33	< 10	42
BB15928	201	202	290	< 1	0.01	13	450	16	< 0.01	< 2	3	19	0.07	< 10	< 10	38	< 10	52
BB15929	201	202	195	< 1	0.01	14	300	10	< 0.01	< 2	5	20	0.10	< 10	< 10	51	< 10	56
BB15930	201	202	315	< 1	< 0.01	18	280	12	< 0.01	< 2	3	14	0.10	< 10	< 10	71	< 10	40
BB15931	201	202	285	< 1	< 0.01	20	180	14	< 0.01	< 2	5	14	0.10	< 10	< 10	70	< 10	60
BB15932	201	202	235	< 1	0.01	20	150	12	< 0.01	< 2	4	22	0.08	< 10	< 10	58	< 10	50
BB15933	201	202	305	< 1	< 0.01	31	520	12	0.02	< 2	3	24	0.03	< 10	< 10	37	< 10	92

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: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 6-A  
 Total : 6  
 Certificate Date: 26-OCT-1999  
 Invoice No. : I9931092  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	
BB15934	201	202	< 5	< 0.2	1.62	14	< 10	360	< 0.5	< 2	0.50	< 0.5	7	30	23	2.20	< 10	< 1	0.09	10	0.52
BB15935	201	202	10	< 0.2	1.29	14	< 10	370	< 0.5	< 2	0.58	< 0.5	12	27	23	2.64	< 10	< 1	0.10	20	0.48
BB15936	201	202	< 5	< 0.2	1.76	14	< 10	320	< 0.5	< 2	0.51	< 0.5	12	35	30	2.95	< 10	< 1	0.11	20	0.55
BB15937	201	202	< 5	< 0.2	1.30	30	< 10	340	< 0.5	< 2	0.58	< 0.5	13	24	28	3.22	< 10	< 1	0.29	40	0.48
BB15938	201	202	< 5	< 0.2	1.91	14	< 10	290	< 0.5	< 2	0.17	< 0.5	11	29	17	2.58	< 10	< 1	0.06	10	0.40
BB15939	201	202	< 5	< 0.2	1.68	10	< 10	190	< 0.5	< 2	0.16	< 0.5	7	27	29	2.44	< 10	< 1	0.07	10	0.36
BB15940	201	202	< 5	< 0.2	1.49	22	< 10	240	0.5	< 2	0.18	< 0.5	8	22	13	2.80	< 10	< 1	0.08	60	0.27
BB15941	201	202	< 5	< 0.2	2.55	16	< 10	140	< 0.5	< 2	0.47	< 0.5	11	43	28	3.48	< 10	< 1	0.35	70	0.90
BB15942	201	202	< 5	< 0.2	1.58	18	< 10	140	< 0.5	< 2	0.16	< 0.5	7	27	22	2.78	< 10	< 1	0.07	10	0.35
BB15943	201	202	< 5	< 0.2	2.18	38	< 10	230	1.5	< 2	0.09	< 0.5	7	29	38	4.48	< 10	< 1	0.23	30	0.25
BB15944	201	202	< 5	< 0.2	1.89	2	< 10	270	< 0.5	< 2	0.44	< 0.5	9	53	32	2.49	< 10	< 1	0.08	20	0.63
BB15945	201	202	< 5	< 0.2	1.70	6	< 10	310	< 0.5	< 2	0.40	< 0.5	7	30	22	2.46	< 10	< 1	0.06	10	0.53
BB15946	201	202	< 5	< 0.2	2.15	12	< 10	500	< 0.5	< 2	0.26	< 0.5	18	31	16	3.08	< 10	< 1	0.05	10	0.45
BB15947	201	202	< 5	< 0.2	1.44	4	< 10	350	< 0.5	< 2	0.56	< 0.5	8	26	26	2.38	< 10	< 1	0.05	10	0.48
BB15948	201	202	< 5	< 0.2	1.44	16	< 10	460	< 0.5	< 2	0.61	< 0.5	10	28	31	2.69	< 10	< 1	0.06	10	0.51
BB15949	201	202	< 5	< 0.2	2.08	12	< 10	290	< 0.5	< 2	0.31	< 0.5	11	31	29	3.20	< 10	< 1	0.30	30	0.54

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EUREKA JOINT VENTURE  
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Page : 6-B  
 Total : 6  
 Certificate Date: 26-OCT-1999  
 Invoice No. : 19931092  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9931092

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB15934	201	202	330	< 1	0.01	23	750	12	0.03	2	5	37	0.07	< 10	< 10	48	< 10	76
BB15935	201	202	570	< 1	0.01	24	680	10	0.03	< 2	4	36	0.07	< 10	< 10	44	< 10	86
BB15936	201	202	360	< 1	0.01	28	680	12	0.02	< 2	6	33	0.09	< 10	< 10	52	< 10	82
BB15937	201	202	570	< 1	< 0.01	25	550	14	0.03	< 2	4	26	0.05	< 10	< 10	34	< 10	62
BB15938	201	202	310	< 1	0.01	19	150	8	< 0.01	< 2	3	17	0.05	< 10	< 10	47	< 10	46
BB15939	201	202	140	< 1	< 0.01	19	150	10	< 0.01	2	4	18	0.04	< 10	< 10	49	< 10	44
BB15940	201	202	425	< 1	< 0.01	13	270	16	< 0.01	< 2	4	21	0.03	< 10	< 10	36	< 10	50
BB15941	201	202	415	< 1	< 0.01	26	150	6	< 0.01	< 2	5	21	0.12	< 10	< 10	35	< 10	28
BB15942	201	202	165	< 1	< 0.01	21	180	8	< 0.01	2	3	17	0.05	< 10	< 10	42	< 10	48
BB15943	201	202	210	< 1	< 0.01	23	430	14	< 0.01	< 2	7	15	0.04	< 10	10	37	< 10	58
BB15944	201	202	190	< 1	0.01	27	280	10	< 0.01	< 2	6	29	0.07	< 10	< 10	43	< 10	52
BB15945	201	202	195	< 1	0.01	18	420	12	< 0.01	4	4	29	0.06	< 10	< 10	43	< 10	52
BB15946	201	202	1970	< 1	< 0.01	20	650	12	0.01	< 2	4	22	0.04	< 10	< 10	62	< 10	104
BB15947	201	202	305	< 1	0.01	22	550	6	0.01	< 2	4	34	0.04	< 10	< 10	40	< 10	54
BB15948	201	202	355	< 1	0.01	26	690	8	0.01	4	4	34	0.06	< 10	< 10	44	< 10	80
BB15949	201	202	280	< 1	0.01	22	350	16	< 0.01	< 2	5	26	0.10	< 10	< 10	46	< 10	70

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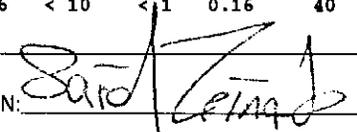
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Page: 1-A  
 Total: 3  
 Certificate Date: 27-OCT-1999  
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## CERTIFICATE OF ANALYSIS A9931091

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
BB28864	201	202	< 5	< 0.2	4.13	4	< 10	190	1.0	< 2	0.19	< 0.5	13	71	19	5.05	10	< 1	1.45	60	1.32
BB28865	201	202	10	< 0.2	3.37	8	< 10	210	1.0	< 2	0.33	< 0.5	14	59	21	4.70	10	< 1	0.94	60	1.16
BB28866	201	202	< 5	< 0.2	3.10	10	< 10	150	0.5	< 2	0.13	< 0.5	11	40	9	4.21	< 10	< 1	0.83	40	1.04
BB28867	201	202	< 5	< 0.2	4.09	6	< 10	180	1.5	< 2	0.29	< 0.5	11	63	22	4.83	10	< 1	1.02	120	1.16
BB28868	201	202	< 5	< 0.2	3.39	8	< 10	220	0.5	< 2	0.12	< 0.5	13	52	21	4.33	< 10	< 1	0.57	30	0.91
BB28869	201	202	< 5	< 0.2	2.95	10	< 10	190	0.5	< 2	0.16	< 0.5	12	44	23	4.26	< 10	< 1	0.81	60	0.87
BB28870	201	202	< 5	< 0.2	2.58	2	< 10	180	0.5	< 2	0.19	< 0.5	11	44	19	3.60	< 10	< 1	0.26	30	0.76
BB28871	201	202	15	0.2	2.29	12	< 10	90	1.0	< 2	0.36	< 0.5	8	34	20	3.57	< 10	< 1	0.13	110	0.54
BB28872	201	202	< 5	< 0.2	3.14	6	< 10	180	0.5	< 2	0.12	< 0.5	13	52	21	4.21	< 10	< 1	0.94	50	0.98
BB28873	201	202	< 5	0.6	2.94	2	< 10	70	< 0.5	< 2	0.09	< 0.5	6	29	11	2.85	< 10	< 1	0.20	10	0.45
BB28874	201	202	< 5	< 0.2	2.83	2	< 10	170	1.5	< 2	0.38	< 0.5	19	39	41	4.90	< 10	< 1	1.03	120	0.91
BB28875	201	202	5	< 0.2	1.81	14	< 10	60	0.5	< 2	0.18	< 0.5	10	25	49	3.58	< 10	< 1	0.44	90	0.58
BB28876	201	202	< 5	< 0.2	3.62	50	< 10	150	1.0	< 2	0.06	< 0.5	14	39	29	5.09	< 10	< 1	0.99	30	0.83
BB28877	201	202	< 5	< 0.2	2.90	20	< 10	150	0.5	< 2	0.21	< 0.5	12	41	23	4.11	< 10	< 1	0.96	90	0.87
BB28878	201	202	10	< 0.2	3.96	48	< 10	300	1.0	< 2	0.29	< 0.5	15	60	42	5.04	10	< 1	1.48	170	1.14
BB28879	201	202	10	< 0.2	2.87	24	< 10	200	1.0	< 2	0.23	< 0.5	15	47	27	4.47	< 10	< 1	1.11	100	0.92
BB28880	201	202	< 5	< 0.2	2.91	12	< 10	210	0.5	< 2	0.18	< 0.5	14	52	32	4.16	< 10	< 1	1.11	140	0.96
BB28881	201	202	25	< 0.2	3.12	28	< 10	220	1.0	< 2	0.20	< 0.5	13	59	30	4.58	< 10	< 1	0.88	100	1.00
BB28882	201	202	5	< 0.2	2.30	28	< 10	140	< 0.5	< 2	0.13	< 0.5	9	35	18	3.63	< 10	< 1	0.38	60	0.63
BB29096	201	202	< 5	< 0.2	3.50	122	< 10	170	0.5	< 2	0.08	< 0.5	15	53	28	4.57	< 10	< 1	0.88	80	0.93
BB29097	201	202	< 5	< 0.2	2.79	28	< 10	110	1.0	< 2	0.06	< 0.5	16	36	26	4.39	< 10	< 1	0.85	40	0.92
BB29098	201	202	5	< 0.2	1.53	8	< 10	90	0.5	< 2	0.05	< 0.5	17	15	11	4.36	< 10	< 1	0.08	40	0.15
BB29099	201	202	250	0.6	2.83	12	< 10	190	0.5	< 2	0.11	< 0.5	16	41	26	4.72	< 10	< 1	0.95	50	0.91
BB29100	201	202	35	1.0	2.29	14	< 10	130	1.0	< 2	0.19	< 0.5	16	34	34	4.55	< 10	< 1	0.59	90	0.63
BB29101	201	202	10	< 0.2	3.33	12	< 10	190	1.0	< 2	0.12	< 0.5	15	44	28	4.30	< 10	< 1	0.64	60	0.77
BB29102	201	202	5	< 0.2	3.90	10	< 10	230	1.5	< 2	0.21	< 0.5	16	58	32	4.94	10	< 1	1.44	60	1.10
BB29495	201	202	< 5	< 0.2	2.59	8	< 10	280	0.5	< 2	0.31	< 0.5	14	43	32	3.85	< 10	< 1	0.29	40	0.81
BB29496	201	202	< 5	< 0.2	3.15	12	< 10	140	0.5	< 2	0.11	< 0.5	14	43	33	5.13	< 10	< 1	0.62	70	0.85
BB29497	201	202	< 5	< 0.2	3.73	6	< 10	210	1.5	< 2	0.36	< 0.5	22	68	27	5.14	< 10	< 1	1.45	160	1.25
BB29498	201	202	< 5	< 0.2	3.70	8	< 10	240	0.5	< 2	0.15	< 0.5	15	59	20	4.77	< 10	< 1	1.16	70	1.09
BB29499	201	202	< 5	< 0.2	3.40	8	< 10	220	0.5	< 2	0.20	< 0.5	17	40	59	5.46	< 10	< 1	1.54	80	1.30
BB29500	201	202	25	< 0.2	2.97	8	< 10	200	1.0	< 2	0.28	< 0.5	19	37	22	4.72	< 10	< 1	0.88	60	0.99
BB34886	201	202	< 5	< 0.2	3.16	4	< 10	160	2.0	< 2	0.39	< 0.5	16	38	66	4.74	< 10	< 1	0.65	160	0.99
BB34887	201	202	< 5	< 0.2	1.89	14	< 10	230	0.5	< 2	0.23	< 0.5	11	31	24	3.48	< 10	< 1	0.10	40	0.55
BB34888	201	202	< 5	< 0.2	3.59	10	< 10	150	1.5	< 2	0.12	< 0.5	19	40	34	6.18	< 10	< 1	1.33	30	0.91
BB34889	201	202	10	< 0.2	3.24	12	< 10	610	1.0	< 2	0.42	< 0.5	15	108	26	4.14	< 10	< 1	1.03	70	1.22
BB34912	201	202	< 5	< 0.2	3.06	18	< 10	140	< 0.5	< 2	0.13	< 0.5	14	40	18	3.64	< 10	< 1	0.05	10	0.47
BB34913	201	202	10	< 0.2	1.54	36	< 10	70	< 0.5	< 2	0.08	< 0.5	9	33	14	4.29	< 10	< 1	0.06	10	0.34
BB34914	201	202	10	< 0.2	1.22	88	< 10	250	0.5	< 2	0.32	< 0.5	25	28	26	9.03	< 10	< 1	0.17	30	0.35
BB34915	201	202	15	< 0.2	2.01	24	< 10	230	0.5	< 2	0.19	< 0.5	10	35	31	3.36	< 10	< 1	0.16	40	0.53

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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To: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

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 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9931091

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB28864	201	202	585	2 < 0.01		35	390	< 2 < 0.01	< 2	10	16	0.30	< 10	< 10	69	< 10		84
BB28865	201	202	660	1 < 0.01		31	330	< 2 < 0.01	2	9	29	0.18	< 10	< 10	57	< 10		76
BB28866	201	202	360	< 1 < 0.01		27	300	6 < 0.01	< 2	5	12	0.19	< 10	< 10	46	< 10		58
BB28867	201	202	495	1 < 0.01		30	180	6 < 0.01	2	10	35	0.23	< 10	< 10	59	< 10		82
BB28868	201	202	370	1 < 0.01		34	240	6 < 0.01	2	6	14	0.21	< 10	< 10	62	< 10		76
BB28869	201	202	345	1 < 0.01		30	220	2 < 0.01	< 2	6	17	0.19	< 10	< 10	50	< 10		68
BB28870	201	202	375	1 < 0.01		24	190	< 2 < 0.01	< 2	5	17	0.10	< 10	< 10	50	< 10		54
BB28871	201	202	475	1 < 0.01		22	200	10 < 0.01	< 2	7	23	0.01	< 10	< 10	35	< 10		56
BB28872	201	202	470	1 < 0.01		29	190	2 < 0.01	< 2	7	15	0.24	< 10	< 10	54	< 10		70
BB28873	201	202	275	1 < 0.01		13	330	8 < 0.01	< 2	4	7	0.04	< 10	< 10	35	< 10		36
BB28874	201	202	605	< 1 0.01		32	560	24 < 0.01	< 2	7	22	0.12	< 10	< 10	37	< 10		86
BB28875	201	202	250	1 < 0.01		23	280	16 < 0.01	< 2	4	14	0.05	< 10	< 10	23	< 10		60
BB28876	201	202	325	1 < 0.01		31	290	6 < 0.01	< 2	5	9	0.20	< 10	< 10	44	< 10		84
BB28877	201	202	410	2 < 0.01		26	580	10 < 0.01	2	6	19	0.21	< 10	< 10	45	< 10		68
BB28878	201	202	665	2 0.01		56	830	2 < 0.01	2	9	24	0.24	< 10	< 10	54	< 10		100
BB28879	201	202	475	1 < 0.01		30	750	10 < 0.01	< 2	6	19	0.19	< 10	< 10	45	< 10		88
BB28880	201	202	425	1 < 0.01		28	560	< 2 < 0.01	2	6	19	0.22	< 10	< 10	45	< 10		82
BB28881	201	202	575	3 < 0.01		31	440	6 < 0.01	< 2	7	20	0.18	< 10	< 10	52	< 10		80
BB28882	201	202	325	2 < 0.01		22	310	8 < 0.01	< 2	4	15	0.12	< 10	< 10	53	< 10		72
BB29096	201	202	590	2 < 0.01		35	570	6 < 0.01	< 2	6	13	0.19	< 10	< 10	52	< 10		76
BB29097	201	202	280	1 < 0.01		37	250	2 < 0.01	< 2	4	8	0.14	< 10	< 10	34	< 10		76
BB29098	201	202	1300	1 < 0.01		24	390	2 0.01	< 2	3	7	< 0.01	< 10	< 10	17	< 10		42
BB29099	201	202	415	1 < 0.01		34	290	36 < 0.01	2	6	14	0.18	< 10	< 10	46	< 10		102
BB29100	201	202	810	1 < 0.01		31	520	24 0.01	< 2	6	20	0.09	< 10	< 10	33	< 10		86
BB29101	201	202	400	1 < 0.01		28	160	14 < 0.01	2	7	17	0.17	< 10	< 10	51	< 10		66
BB29102	201	202	460	2 0.01		37	530	10 < 0.01	2	9	19	0.24	< 10	< 10	50	< 10		78
BB29495	201	202	540	2 0.01		32	340	6 < 0.01	2	8	31	0.15	< 10	< 10	60	< 10		72
BB29496	201	202	315	2 < 0.01		34	260	2 < 0.01	< 2	5	13	0.13	< 10	< 10	44	< 10		84
BB29497	201	202	540	1 0.01		40	850	22 < 0.01	2	12	27	0.21	< 10	< 10	56	< 10		118
BB29498	201	202	630	2 < 0.01		32	140	2 < 0.01	< 2	8	18	0.29	< 10	< 10	59	< 10		92
BB29499	201	202	455	1 < 0.01		38	420	< 2 < 0.01	< 2	6	23	0.27	< 10	< 10	39	< 10		108
BB29500	201	202	310	1 < 0.01		35	410	32 < 0.01	2	6	20	0.15	< 10	< 10	36	< 10		114
BB34886	201	202	860	1 < 0.01		31	660	10 < 0.01	2	6	27	0.06	< 10	< 10	31	< 10		72
BB34887	201	202	320	2 < 0.01		28	250	8 < 0.01	< 2	5	21	0.06	< 10	< 10	48	< 10		70
BB34888	201	202	240	1 < 0.01		40	650	< 2 < 0.01	< 2	5	6	0.23	< 10	< 10	35	< 10		94
BB34889	201	202	605	1 < 0.01		33	480	12 < 0.01	< 2	8	40	0.17	< 10	< 10	58	< 10		84
BB34912	201	202	320	3 < 0.01		28	630	6 0.01	2	4	14	0.08	< 10	< 10	63	< 10		62
BB34913	201	202	335	3 < 0.01		15	580	26 0.01	6	3	21	0.07	< 10	< 10	70	< 10		54
BB34914	201	202	1295	6 < 0.01		27	1080	18 0.03	4	4	26	0.05	< 10	< 10	57	< 10		104
BB34915	201	202	355	1 < 0.01		24	400	14 0.01	< 2	6	23	0.07	< 10	< 10	52	< 10		120

CERTIFICATION:

*Said Lemay*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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To: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 2-A  
 Total : 3  
 Certificate Date: 27-OCT-1999  
 P.O. Number : I9931091  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9931091

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	201	202	FA+AA																		
BB34916	201	202	< 5	< 0.2	2.49	14	< 10	130	1.0	< 2	0.17	< 0.5	9	39	24	4.21	< 10	< 1	0.72	90	0.74
BB34917	201	202	< 5	< 0.2	2.55	16	< 10	250	0.5	< 2	0.18	< 0.5	11	45	38	4.16	< 10	< 1	0.62	50	0.81
BB34918	201	202	15	< 0.2	2.81	2	< 10	200	1.5	< 2	0.66	< 0.5	13	54	47	5.30	10	< 1	1.13	140	1.02
BB34919	201	202	40	< 0.2	1.21	30	< 10	90	0.5	< 2	0.22	< 0.5	10	26	27	3.89	< 10	< 1	0.22	40	0.33
BB34920	201	202	10	< 0.2	2.24	22	< 10	210	0.5	< 2	0.36	< 0.5	13	43	23	3.64	< 10	< 1	0.59	60	0.45
BB34921	201	202	90	< 0.2	0.74	68	< 10	100	< 0.5	< 2	0.06	< 0.5	11	15	41	2.51	< 10	< 1	0.24	50	0.17
BB34922	201	202	50	< 0.2	3.42	16	< 10	340	0.5	< 2	0.31	< 0.5	19	101	37	4.58	10	< 1	1.19	60	1.39
BB34923	201	202	25	< 0.2	2.97	14	< 10	270	0.5	< 2	0.15	< 0.5	12	33	41	4.74	10	< 1	0.72	20	0.98
BB34924	201	202	10	< 0.2	0.92	16	< 10	220	< 0.5	< 2	0.05	< 0.5	8	23	31	2.03	< 10	< 1	0.33	30	0.32
BB34925	201	202	15	< 0.2	2.11	18	< 10	200	0.5	< 2	0.20	< 0.5	15	40	67	4.04	< 10	< 1	0.52	40	0.76
BB34926	201	202	15	< 0.2	2.37	14	< 10	480	0.5	< 2	0.20	< 0.5	12	34	53	4.23	< 10	< 1	0.65	40	0.87
BB34927	201	202	10	< 0.2	1.78	8	< 10	250	< 0.5	< 2	0.18	< 0.5	9	30	25	2.99	< 10	< 1	0.19	20	0.54
BB34928	201	202	50	< 0.2	1.47	34	< 10	240	0.5	< 2	0.15	< 0.5	12	31	38	3.45	< 10	< 1	0.30	40	0.48
BB34929	201	202	55	< 0.2	1.57	50	< 10	180	< 0.5	< 2	0.06	< 0.5	9	31	31	2.54	< 10	< 1	0.25	30	0.39
BB34930	201	202	< 5	< 0.2	1.22	32	< 10	110	< 0.5	< 2	0.07	< 0.5	6	26	21	3.19	< 10	< 1	0.05	10	0.26
BB34931	201	202	10	< 0.2	1.72	22	< 10	160	< 0.5	< 2	0.11	< 0.5	12	33	27	3.24	< 10	< 1	0.09	30	0.50
BB34932	201	202	< 5	< 0.2	1.30	12	< 10	100	< 0.5	< 2	0.08	< 0.5	8	34	18	3.18	< 10	< 1	0.09	10	0.33
BB34933	201	202	25	0.2	1.86	16	< 10	230	< 0.5	< 2	0.22	< 0.5	13	36	22	3.30	< 10	< 1	0.19	20	0.57
BB34935	201	202	10	0.2	1.98	48	< 10	310	< 0.5	< 2	0.16	< 0.5	10	36	26	3.21	< 10	< 1	0.05	10	0.50
BB34936	201	202	5	< 0.2	2.05	32	< 10	330	< 0.5	< 2	0.18	< 0.5	11	36	26	3.33	< 10	< 1	0.05	10	0.55
BB34937	201	202	5	< 0.2	1.45	208	< 10	140	< 0.5	< 2	0.09	< 0.5	12	30	25	2.84	< 10	1	0.05	10	0.39
BB34938	201	202	< 5	< 0.2	1.78	88	< 10	320	< 0.5	< 2	0.09	< 0.5	15	49	28	3.98	< 10	< 1	0.06	10	0.54
BB34939	201	202	5	< 0.2	1.69	52	< 10	180	< 0.5	< 2	0.17	< 0.5	9	31	21	2.81	< 10	< 1	0.05	10	0.50
BB34940	201	202	< 5	< 0.2	1.84	62	< 10	140	< 0.5	< 2	0.11	< 0.5	9	38	18	3.81	< 10	< 1	0.07	10	0.45
BB34941	201	202	< 5	0.2	2.16	16	< 10	240	< 0.5	< 2	0.14	< 0.5	8	36	18	3.46	< 10	< 1	0.04	10	0.47
BB34942	201	202	< 5	< 0.2	2.64	10	< 10	210	< 0.5	< 2	0.09	< 0.5	11	39	18	3.41	< 10	< 1	0.04	10	0.49
BB34943	201	202	< 5	0.2	2.27	10	< 10	150	< 0.5	< 2	0.07	< 0.5	8	36	12	3.32	< 10	1	0.04	10	0.40
T14835	201	202	< 5	< 0.2	2.72	14	< 10	640	1.5	< 2	0.48	< 0.5	22	38	39	5.68	10	< 1	0.19	110	0.71
T14836	201	202	30	< 0.2	2.49	38	< 10	250	0.5	< 2	0.18	< 0.5	13	38	25	4.06	10	< 1	0.65	50	0.72
T14837	201	202	5	< 0.2	3.04	6	< 10	1040	0.5	< 2	0.36	< 0.5	16	53	31	4.48	10	1	1.12	60	1.09
T14838	201	202	10	< 0.2	3.70	10	< 10	860	1.0	< 2	0.45	< 0.5	17	62	23	5.04	10	< 1	1.18	110	1.19
T14839	201	202	< 5	< 0.2	3.57	< 2	< 10	310	0.5	< 2	0.26	< 0.5	17	65	25	4.63	10	< 1	1.27	70	1.11
T14840	201	202	< 5	< 0.2	2.60	4	< 10	220	0.5	< 2	0.24	< 0.5	12	48	20	3.60	10	< 1	0.43	40	0.75
T14841	201	202	< 5	< 0.2	2.70	6	< 10	220	1.0	< 2	0.27	< 0.5	17	35	25	4.20	10	< 1	0.78	70	0.87
T14842	201	202	30	< 0.2	1.85	16	< 10	150	0.5	< 2	0.15	< 0.5	14	28	24	3.67	< 10	< 1	0.40	40	0.54
T14843	201	202	10	< 0.2	0.73	30	< 10	130	1.0	< 2	0.16	< 0.5	7	19	22	3.56	< 10	< 1	0.21	120	0.20
T14844	201	202	10	< 0.2	3.03	16	< 10	420	0.5	< 2	0.12	< 0.5	17	73	63	5.04	10	< 1	0.73	30	1.35
T14845	201	202	30	< 0.2	2.94	50	< 10	600	1.0	< 2	0.29	< 0.5	12	112	84	5.74	10	< 1	0.88	40	1.29
T14846	201	202	35	< 0.2	0.84	36	< 10	410	< 0.5	< 2	0.04	< 0.5	3	16	22	1.91	< 10	< 1	0.17	20	0.21
T14847	201	202	145	< 0.2	0.87	328	< 10	100	0.5	< 2	0.13	< 0.5	6	5	28	4.11	< 10	< 1	0.25	20	0.18

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

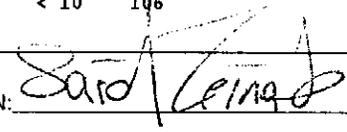
Project: EUREKA JOINT VENTURE  
 Comments: C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number: 2-B  
 Total Pages: 3  
 Certificate Date: 27-OCT-1999  
 Invoice No.: 19931091  
 P.O. Number:  
 Account: RDF

## CERTIFICATE OF ANALYSIS

### A9931091

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB34916	201	202	445	1 < 0.01		19	400	8 < 0.01	< 2	6	18	0.14	< 10	< 10		42	< 10	50
BB34917	201	202	405	1 < 0.01		35	570	16 < 0.01	< 2	5	16	0.12	< 10	< 10		74	< 10	202
BB34918	201	202	405	< 1	0.01	25	2170	16	0.41	< 2	6	59	0.13	< 10	< 10	44	< 10	42
BB34919	201	202	375	< 1	< 0.01	23	600	22	0.04	< 2	4	20	0.02	< 10	< 10	31	< 10	94
BB34920	201	202	415	1 < 0.01		24	600	10 < 0.01	< 2	7	35	0.06	< 10	< 10		45	< 10	60
BB34921	201	202	395	1 < 0.01		26	360	12	0.02	< 2	5	28	0.03	< 10	< 10	21	< 10	48
BB34922	201	202	880	1	0.01	32	670	6	< 0.01	< 2	10	25	0.17	< 10	< 10	62	< 10	84
BB34923	201	202	625	1	0.01	21	630	4	< 0.01	< 2	8	11	0.14	< 10	< 10	71	< 10	66
BB34924	201	202	250	< 1	< 0.01	19	360	12	< 0.01	< 2	4	7	0.07	< 10	< 10	38	< 10	44
BB34925	201	202	360	2	< 0.01	40	700	14	0.01	< 2	6	15	0.09	< 10	< 10	61	< 10	98
BB34926	201	202	590	3	0.01	28	680	10	0.01	< 2	7	15	0.11	< 10	< 10	58	< 10	84
BB34927	201	202	295	1 < 0.01		20	460	14	< 0.01	< 2	5	15	0.08	< 10	< 10	52	< 10	64
BB34928	201	202	345	1 < 0.01		29	650	22	0.01	< 2	5	14	0.07	< 10	< 10	51	< 10	110
BB34929	201	202	365	1 < 0.01		21	340	8	< 0.01	< 2	5	9	0.08	< 10	< 10	57	< 10	54
BB34930	201	202	180	1 < 0.01		14	690	10	0.02	< 2	2	11	0.05	< 10	< 10	73	< 10	54
BB34931	201	202	370	1 < 0.01		24	300	10	0.01	< 2	6	15	0.07	< 10	< 10	52	< 10	70
BB34932	201	202	220	1 < 0.01		23	430	12	0.01	< 2	3	9	0.05	< 10	< 10	53	< 10	68
BB34933	201	202	625	< 1	< 0.01	21	610	24	0.01	< 2	5	24	0.09	< 10	< 10	50	< 10	84
BB34935	201	202	360	1 < 0.01		23	500	10	0.01	< 2	5	18	0.05	< 10	< 10	67	< 10	78
BB34936	201	202	375	2	< 0.01	23	460	8	0.01	< 2	4	22	0.06	< 10	< 10	67	< 10	68
BB34937	201	202	330	1 < 0.01		23	200	12	0.01	< 2	4	14	0.05	< 10	< 10	48	< 10	56
BB34938	201	202	600	1 < 0.01		32	420	10	0.01	< 2	5	13	0.07	< 10	< 10	74	< 10	92
BB34939	201	202	350	1	0.01	20	450	10	< 0.01	< 2	4	17	0.06	< 10	< 10	53	< 10	54
BB34940	201	202	350	1 < 0.01		19	520	12	0.01	< 2	4	13	0.06	< 10	< 10	76	< 10	70
BB34941	201	202	230	1 < 0.01		18	290	12	0.01	< 2	4	17	0.06	< 10	< 10	73	< 10	52
BB34942	201	202	310	1 < 0.01		21	260	10	< 0.01	< 2	4	11	0.06	< 10	< 10	63	< 10	54
BB34943	201	202	240	3	< 0.01	17	280	12	< 0.01	< 2	4	10	0.07	< 10	< 10	69	< 10	50
T14835	201	202	1085	1 < 0.01		45	1000	20	< 0.01	< 2	6	35	< 0.01	< 10	< 10	40	< 10	100
T14836	201	202	540	1 < 0.01		24	480	14	< 0.01	< 2	5	17	0.14	< 10	< 10	46	< 10	80
T14837	201	202	785	1	0.01	32	690	20	< 0.01	< 2	9	32	0.22	< 10	< 10	56	< 10	100
T14838	201	202	685	2	0.01	31	680	10	< 0.01	< 2	9	102	0.17	< 10	< 10	59	< 10	72
T14839	201	202	640	< 1	0.01	32	580	8	< 0.01	< 2	8	42	0.26	< 10	< 10	64	< 10	86
T14840	201	202	505	1 < 0.01		21	530	10	< 0.01	< 2	6	21	0.13	< 10	< 10	56	< 10	62
T14841	201	202	655	< 1	< 0.01	26	520	32	< 0.01	< 2	5	20	0.12	< 10	< 10	37	< 10	92
T14842	201	202	440	1 < 0.01		22	420	14	< 0.01	< 2	4	13	0.07	< 10	< 10	35	< 10	68
T14843	201	202	150	< 1	< 0.01	16	590	16	0.10	< 2	6	23	< 0.01	< 10	< 10	26	< 10	96
T14844	201	202	545	1	0.01	40	430	26	0.05	< 2	13	16	0.13	< 10	< 10	115	< 10	140
T14845	201	202	410	1 < 0.01		45	550	24	0.08	< 2	10	32	0.19	< 10	< 10	94	< 10	156
T14846	201	202	90	4	< 0.01	9	230	24	< 0.01	< 2	4	7	0.04	< 10	< 10	30	< 10	48
T14847	201	202	305	3	< 0.01	22	590	6	0.03	< 2	12	13	0.01	< 10	< 10	13	< 10	106

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: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project : EUREKA-EUREKA  
Comments:

Page Number : 3-A  
Total : 3  
Certificate Date: 27-OCT-1999  
Invoice No. : I9931091  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9931091

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
T14848	201	202	10	< 0.2	2.05	30	< 10	220	1.5	< 2	0.12	< 0.5	8	39	36	4.67	< 10	< 1	0.54	30	0.63
T14849	201	202	15	< 0.2	1.38	22	< 10	210	< 0.5	< 2	0.12	< 0.5	11	30	28	2.60	< 10	< 1	0.07	10	0.49
T14850	201	202	< 5	< 0.2	2.36	12	< 10	550	0.5	< 2	0.10	< 0.5	14	55	39	3.81	< 10	< 1	0.27	10	1.04

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Y1A 3S9

Project: EUREKA-EUREKA  
Comments:

Page Number: 3-B  
Total: 3  
Certificate Date: 27-OCT-1999  
Invoice No.: 19931091  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS

### A9931091

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T14848	201	202	305	2	< 0.01	24	840	20	0.01	< 2	5	12	0.11	< 10	< 10	65	< 10	88
T14849	201	202	320	< 1	< 0.01	24	250	8	< 0.01	< 2	6	15	0.05	< 10	< 10	50	< 10	58
T14850	201	202	410	1	< 0.01	27	450	8	0.06	< 2	6	14	0.09	< 10	< 10	83	< 10	102

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Project: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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Y1A 3S9

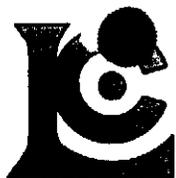
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Total: 1  
Certificate Date: 08-OCT-1999  
Invoice No.: I9930113  
P.O. Number:  
Account: RDF

Project: EUREKA-REGIONAL  
Comments:

## CERTIFICATE OF ANALYSIS A9930113

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 ppm	K %	La ppm	Mg %
BB34890	205 226	40	0.4	0.28	18	< 10	910	< 0.5	< 2	4.97	< 0.5	1	36	38	>15.00	< 10	< 1	< 0.01	< 10	0.11
BB34894	205 226	< 5	< 0.2	0.19	8	< 10	1010	< 0.5	< 2	1.85	< 0.5	< 1	39	11	9.32	< 10	< 1	< 0.01	< 10	0.10
BB34895	205 226	< 5	< 0.2	0.17	14	< 10	2070	< 0.5	< 2	1.29	< 0.5	1	42	17	8.99	< 10	< 1	< 0.01	< 10	0.12
BB34896	205 226	30	< 0.2	0.27	28	< 10	1950	< 0.5	< 2	11.65	< 0.5	1	13	15	9.51	< 10	< 1	< 0.01	< 10	0.06
BB34897	205 226	< 5	< 0.2	0.13	14	< 10	550	< 0.5	< 2	0.05	< 0.5	3	137	26	0.91	< 10	< 1	0.01	< 10	< 0.01
BB34898	205 226	140	1.4	0.44	264	< 10	3820	< 0.5	< 2	0.05	< 0.5	3	56	41	>15.00	< 10	< 1	0.05	10	0.04
BB34899	205 226	215	1.4	0.45	394	< 10	890	< 0.5	< 2	0.28	3.0	< 1	103	31	>15.00	< 10	4	0.01	< 10	0.05
BB34900	205 226	100	0.2	0.05	6650	< 10	250	< 0.5	< 2	0.57	< 0.5	3	174	2	1.55	< 10	< 1	0.01	< 10	0.25

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Analytical Chemists \* Geochemists \* Registered Assayers

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British Columbia, Canada V7J 2C1  
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To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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WHITEHORSE, YT  
Y1A 3S9

Project : EUREKA-REGIONAL  
Comments:

Page : 1-B  
Total : 1  
Certificate Date: 08-OCT-1999  
Invoice No. : 19930113  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9930113

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
BB34890	205 226	2610	5 < 0.01		3	400	28	2.24	2	1	166 < 0.01	< 10	< 10	< 10	64	< 10	140
BB34894	205 226	3180	2 < 0.01		6	320	< 2	0.17	< 2	1	138 < 0.01	< 10	< 10	< 10	49	< 10	54
BB34895	205 226	2440	1 < 0.01		6	350	< 2	0.10	< 2	2	118 < 0.01	< 10	< 10	< 10	51	< 10	42
BB34896	205 226	1640	8 < 0.01		< 1	370	76	>5.00	6	1	684 < 0.01	< 10	< 10	< 10	36	< 10	38
BB34897	205 226	1060	< 1 < 0.01		11	100	10	0.04	< 2	1	20 < 0.01	< 10	< 10	< 10	4	< 10	30
BB34898	205 226	670	< 1 < 0.01		17	1480	42	0.10	8	2	140 < 0.01	< 10	< 10	< 10	18	< 10	216
BB34899	205 226	410	16 < 0.01		6	1330	1005	0.17	2	2	152 < 0.01	< 10	< 10	< 10	80	< 10	632
BB34900	205 226	415	1 < 0.01		5	40	22	0.73	2	< 1	36 < 0.01	< 10	< 10	< 10	1	< 10	16

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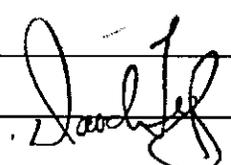
EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

Project : EUREKA-REGIONAL  
Comments:

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 01-OCT-1999  
Invoice No. : I9930096  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9930096

SAMPLE	PREP CODE	Au ppb RUSH	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 ppm	K %	La ppm	Mg %
BB34884	241 202	10	< 0.2	0.83	72	< 10	470	< 0.5	< 2	0.50	< 0.5	12	34	21	7.30	< 10	< 1	0.07	10	0.56
BB34885	241 202	< 5	< 0.2	0.63	80	< 10	1270	< 0.5	< 2	1.02	< 0.5	8	16	24	>15.00	< 10	< 1	0.06	10	0.40
BB34901	241 202	< 5	< 0.2	0.90	12	< 10	290	< 0.5	< 2	1.07	< 0.5	8	25	18	1.82	< 10	< 1	0.06	10	0.59
BB34902	241 202	20	< 0.2	0.92	14	< 10	530	< 0.5	< 2	1.01	< 0.5	9	35	16	2.41	< 10	< 1	0.06	10	0.53
BB34903	241 202	100	0.2	1.02	24	< 10	850	< 0.5	< 2	1.02	< 0.5	10	37	23	2.55	< 10	< 1	0.07	10	0.59
BB34904	241 202	50	< 0.2	0.93	14	< 10	360	< 0.5	< 2	0.64	< 0.5	7	32	11	2.18	< 10	< 1	0.06	10	0.45
BB34905	241 202	10	< 0.2	0.97	10	< 10	200	< 0.5	< 2	0.54	< 0.5	6	28	10	2.05	< 10	< 1	0.05	10	0.39
BB34906	241 202	10	< 0.2	1.09	10	< 10	310	< 0.5	< 2	0.62	< 0.5	8	31	19	2.15	< 10	< 1	0.07	10	0.51
BB34907	241 202	10	< 0.2	0.96	18	< 10	440	< 0.5	< 2	0.69	< 0.5	9	33	15	2.37	< 10	< 1	0.06	10	0.54
BB34908	241 202	< 5	0.2	1.06	8	< 10	330	< 0.5	< 2	0.61	< 0.5	8	32	23	1.86	< 10	< 1	0.06	10	0.54
BB34909	241 202	< 5	< 0.2	1.13	8	< 10	290	< 0.5	< 2	0.64	< 0.5	8	32	24	1.84	< 10	< 1	0.06	10	0.53
BB34910	241 202	10	< 0.2	1.17	18	< 10	470	< 0.5	< 2	0.92	0.5	10	35	25	2.43	< 10	< 1	0.08	10	0.60
BB34911	241 202	< 5	< 0.2	1.01	18	< 10	390	< 0.5	< 2	1.16	< 0.5	9	31	18	2.20	< 10	< 1	0.07	10	0.65

CERTIFICATION: 



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212 Brooksbank Ave., North Vancouver  
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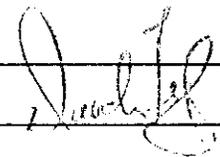
Client: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

Project: EUREKA-REGIONAL  
Comments:

Page Number: 1-B  
Total Pages: 1  
Certificate Date: 01-OCT-1999  
Invoice No.: I9930096  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9930096

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB34884	241	202	1680	6	0.02	37	1380	10	0.01	< 2	3	35	0.04	< 10	< 10	48	< 10	78
BB34885	241	202	3130	6	< 0.01	20	4280	2	0.05	< 2	3	70	0.04	< 10	< 10	41	< 10	56
BB34901	241	202	340	2	0.02	21	650	2	< 0.01	< 2	3	43	0.06	< 10	< 10	36	< 10	56
BB34902	241	202	335	1	0.03	23	820	6	0.01	< 2	3	43	0.08	< 10	< 10	54	< 10	62
BB34903	241	202	570	2	0.03	27	700	8	0.02	< 2	3	49	0.07	< 10	< 10	55	< 10	76
BB34904	241	202	310	1	0.02	18	770	6	0.01	< 2	3	38	0.08	< 10	< 10	52	< 10	58
BB34905	241	202	245	1	0.03	16	660	8	0.01	< 2	3	33	0.08	< 10	< 10	43	< 10	62
BB34906	241	202	205	2	0.03	24	710	6	0.01	< 2	3	36	0.07	< 10	< 10	47	< 10	64
BB34907	241	202	525	1	0.03	26	730	6	0.01	< 2	3	38	0.06	< 10	< 10	46	< 10	74
BB34908	241	202	225	1	0.03	25	720	10	0.04	< 2	3	36	0.06	< 10	< 10	39	< 10	86
BB34909	241	202	240	1	0.02	28	650	12	0.02	< 2	3	40	0.05	< 10	< 10	38	< 10	90
BB34910	241	202	330	2	0.03	32	740	10	0.03	< 2	4	50	0.06	< 10	< 10	47	< 10	84
BB34911	241	202	735	3	0.03	27	710	6	0.01	< 2	3	52	0.06	< 10	< 10	42	< 10	72

CERTIFICATION: 



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212 Brooksbank Ave., North Vancouver  
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Project: EUREKA  
Comments:

Page Number: 1-A  
Total Pages: 1  
Certificate Date: 03-SEP-1999  
Invoice No.: 19927076  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9927076

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
BB 26741	205	226	845	4.0	0.69	96	< 10	420	< 0.5	14	0.01	< 0.5	3	230	151	1.82	< 10	1	0.07	20	0.01
BB 26742	205	226	20	1.0	0.64	40	< 10	100	< 0.5	< 2	0.03	< 0.5	< 1	119	5	0.60	< 10	< 1	0.05	30	< 0.01
BB 26743	205	226	< 5	4.8	0.87	58	< 10	90	< 0.5	< 2	0.01	< 0.5	2	74	256	1.05	< 10	10	0.02	150	< 0.01

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: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project: EUREKA  
Comments:

Page: 1-B  
Total: 1  
Certificate Date: 03-SEP-1999  
Invoice No.: I9927076  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9927076

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB 26741	205	226	35	5 < 0.01		4	600	144 < 0.01	2	1	92 < 0.01	< 10	< 10	< 10	29	< 10		32
BB 26742	205	226	45	62 < 0.01		4	130	60 0.02	< 2	1	7 < 0.01	< 10	< 10	< 10	5	< 10		22
BB 26743	205	226	15	1 < 0.01		3	180	366 1.12	6	2	11 < 0.01	< 10	< 10	< 10	4	< 10		108

CERTIFICATION: \_\_\_\_\_



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Project: EUREKA-EUREKA  
 Comments:

Page: 1-A  
 Total: 3  
 Certificate Date: 12-JUL-1999  
 Invoice No.: I9921719  
 P.O. Number:  
 Account: RDF

## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE	Au g/t FA+AA	Au FA g/t	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 ppm	K %	La ppm
BB04986	205 226	< 0.005	-----	< 0.2	0.83	2	< 10	80	< 0.5	< 2	1.51	< 0.5	5	96	13	1.59	< 10	< 1	0.60	< 10
BB04987	205 226	< 0.005	-----	< 0.2	0.01	2	< 10	10	< 0.5	< 2	0.02	< 0.5	< 1	215	1	0.28	< 10	< 1	< 0.01	< 10
BB04988	205 226	< 0.005	-----	< 0.2	0.03	6	< 10	80	< 0.5	< 2	0.01	< 0.5	1	178	3	0.67	< 10	< 1	< 0.01	< 10
BB29011	205 226	< 0.005	-----	0.2	0.28	1610	< 10	230	< 0.5	< 2	0.04	0.5	9	120	65	8.57	< 10	3	0.05	< 10
BB29012	205 226	< 0.005	-----	< 0.2	0.01	6	< 10	10	< 0.5	< 2	< 0.01	< 0.5	< 1	150	3	0.36	< 10	< 1	< 0.01	< 10
BB29017	205 226	< 0.005	-----	0.6	0.34	10	< 10	280	< 0.5	< 2	0.04	< 0.5	1	127	15	1.88	< 10	< 1	0.17	30
BB29020	205 226	< 0.005	-----	0.2	0.21	88	10	2830	< 0.5	< 2	< 0.01	0.5	< 1	124	3	0.75	< 10	< 1	0.08	< 10
BB29024	205 226	< 0.005	-----	< 0.2	0.40	8	< 10	150	< 0.5	< 2	0.10	< 0.5	9	168	154	1.22	< 10	< 1	0.13	< 10
BB29026	205 226	0.010	-----	2.2	0.01	2	< 10	180	< 0.5	< 2	< 0.01	< 0.5	1	220	4	0.47	< 10	< 1	< 0.01	< 10
BB29027	205 226	< 0.005	-----	< 0.2	0.03	< 2	10	40	< 0.5	< 2	0.01	< 0.5	< 1	155	3	0.29	< 10	< 1	0.01	< 10
BB29028	205 226	0.030	-----	4.0	0.13	26	< 10	80	< 0.5	6	< 0.01	< 0.5	1	99	942	0.84	< 10	< 1	0.01	< 10
BB29029	205 226	0.005	-----	3.0	0.01	40	< 10	10	< 0.5	< 2	< 0.01	< 0.5	17	105	248	4.82	< 10	< 1	< 0.01	< 10
BB29030	205 226	0.015	-----	0.2	0.44	20	< 10	140	< 0.5	< 2	< 0.01	< 0.5	2	43	11	1.02	< 10	1	0.01	10
BB29031	205 226	0.320	-----	24.2	0.01	34	< 10	60	< 0.5	14	< 0.01	2.5	< 1	187	316	0.38	< 10	5	< 0.01	10
BB29032	205 226	0.055	-----	2.0	0.09	6	< 10	60	< 0.5	2	< 0.01	< 0.5	8	138	13	1.47	< 10	< 1	< 0.01	< 10
BB29034	205 226	0.015	-----	1.6	0.06	78	< 10	70	< 0.5	< 2	< 0.01	< 0.5	1	213	8	0.64	< 10	2	0.01	< 10
BB29035	205 226	0.010	-----	0.4	0.42	10	< 10	70	< 0.5	< 2	0.10	< 0.5	1	93	12	1.12	< 10	< 1	0.05	< 10
BB29042	205 226	0.035	-----	0.2	0.49	28	< 10	110	< 0.5	< 2	0.09	< 0.5	< 1	122	11	0.45	< 10	< 1	0.07	< 10
BB29043	205 226	0.035	-----	0.6	1.35	4	< 10	50	< 0.5	< 2	0.19	< 0.5	1	34	15	2.56	< 10	< 1	0.40	20
BB29044	205 226	0.020	-----	0.2	1.34	2	< 10	60	< 0.5	< 2	0.09	< 0.5	2	66	11	2.99	< 10	< 1	0.53	20
BB29045	205 226	0.060	-----	0.8	0.94	32	< 10	70	< 0.5	< 2	0.15	< 0.5	3	38	21	3.62	< 10	1	0.31	< 10
BB29046	205 226	0.010	-----	0.6	0.40	14	< 10	30	< 0.5	< 2	0.03	< 0.5	4	120	16	2.31	< 10	< 1	0.14	< 10
BB29047	205 226	0.025	-----	0.8	0.78	14	< 10	70	< 0.5	< 2	0.03	< 0.5	3	59	49	6.71	< 10	< 1	0.27	< 10
BB29048	205 226	0.015	-----	0.4	0.34	8	< 10	80	< 0.5	< 2	0.01	< 0.5	< 1	100	17	1.27	< 10	< 1	0.10	10
BB29049	205 226	0.005	-----	< 0.2	0.25	64	< 10	40	< 0.5	< 2	< 0.01	< 0.5	< 1	133	11	0.74	< 10	< 1	0.04	< 10
BB29050	205 226	0.205	-----	5.4	0.18	124	< 10	< 10	< 0.5	< 2	0.04	0.5	9	67	202	>15.00	< 10	4	0.03	< 10
BB29057	205 226	< 0.005	-----	< 0.2	0.14	< 2	< 10	90	< 0.5	< 2	< 0.01	< 0.5	< 1	155	3	0.28	< 10	< 1	0.06	< 10
BB29058	205 226	< 0.005	-----	< 0.2	0.17	60	< 10	60	< 0.5	< 2	0.01	< 0.5	7	155	18	4.62	< 10	< 1	0.05	< 10
BB29074	205 226	< 0.005	-----	< 0.2	0.88	< 2	< 10	50	< 0.5	< 2	0.04	< 0.5	< 1	46	13	0.67	< 10	< 1	0.21	30
BB29075	205 226	0.045	-----	< 0.2	0.72	32	< 10	70	0.5	< 2	0.03	< 0.5	4	91	31	6.42	< 10	< 1	0.08	10
BB29076	205 226	>10.00	75.38	22.2	2.00	12	< 10	100	0.5	< 2	0.07	< 0.5	6	42	18	4.36	< 10	1	0.60	< 10
BB29077	205 226	0.030	-----	< 0.2	0.88	< 2	< 10	40	< 0.5	< 2	0.07	< 0.5	< 1	37	6	0.23	< 10	< 1	0.14	30
BB29078	205 226	< 0.005	-----	< 0.2	0.63	40	< 10	810	0.5	< 2	0.16	< 0.5	16	104	35	0.61	< 10	< 1	0.12	10
BB29079	205 226	0.015	-----	< 0.2	0.62	34	< 10	30	0.5	< 2	0.04	< 0.5	4	78	35	6.27	< 10	1	0.08	10
BB29080	205 226	< 0.005	-----	< 0.2	0.22	4	< 10	190	< 0.5	< 2	0.01	< 0.5	< 1	163	1	0.22	< 10	< 1	0.01	< 10
BB29084	205 226	< 0.005	-----	< 0.2	0.49	2	< 10	70	< 0.5	< 2	0.04	< 0.5	< 1	73	7	0.87	< 10	< 1	0.12	10
BB29085	205 226	< 0.005	-----	< 0.2	0.18	2	< 10	190	< 0.5	< 2	0.01	< 0.5	< 1	96	1	0.17	< 10	< 1	< 0.01	10
BB29086	205 226	< 0.005	-----	< 0.2	0.22	6	< 10	80	0.5	< 2	0.61	< 0.5	4	67	2	1.52	< 10	< 1	0.08	30
BB29087	205 226	< 0.005	-----	< 0.2	0.37	6	< 10	60	0.5	< 2	0.35	< 0.5	3	61	1	1.77	< 10	< 1	0.16	40
BB29088	205 226	< 0.005	-----	< 0.2	0.69	16	< 10	2140	1.5	< 2	0.72	0.5	5	47	1	2.41	< 10	< 1	0.21	50

CERTIFICATION:



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EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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 Y1A 3S9

Page Number : 1-B  
 Total Pages : 3  
 Certificate Date: 12-JUL-1999  
 Invoice No. : 19921719  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE	Mg %	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
BB04986	205 226	0.57	465	1 < 0.01	6	340	2	0.19	< 2	4	20	0.07	< 10	< 10	11	< 10	36	
BB04987	205 226	< 0.01	20	1 < 0.01	4	< 10	2	< 0.01	< 2	< 1	< 1	< 0.01	< 10	< 10	< 1	< 10	2	
BB04988	205 226	< 0.01	80	1 < 0.01	9	20	2	< 0.01	< 2	< 1	3	< 0.01	< 10	< 10	1	< 10	10	
BB29011	205 226	0.01	320	7 < 0.01	35	970	6	0.01	98	< 1	18	< 0.01	< 10	< 10	32	< 10	106	
BB29012	205 226	< 0.01	20	1 < 0.01	3	10	< 2	< 0.01	< 2	< 1	1	< 0.01	< 10	< 10	1	< 10	2	
BB29017	205 226	0.09	145	3 0.04	7	270	118	0.03	< 2	3	13	0.04	< 10	< 10	12	< 10	26	
BB29020	205 226	< 0.01	20	1 < 0.01	5	50	50	0.07	6	< 1	46	< 0.01	< 10	< 10	4	< 10	18	
BB29024	205 226	0.24	110	1 0.03	8	340	4	0.43	< 2	1	4	0.01	< 10	< 10	5	< 10	12	
BB29026	205 226	< 0.01	45	14 < 0.01	5	20	8	0.05	< 2	< 1	1	< 0.01	< 10	< 10	< 1	< 10	2	
BB29027	205 226	< 0.01	15	< 1 < 0.01	4	40	< 2	< 0.01	< 2	< 1	< 1	< 0.01	< 10	< 10	< 1	< 10	< 2	
BB29028	205 226	< 0.01	25	46 < 0.01	4	30	34	0.16	8	< 1	3	< 0.01	< 10	< 10	1	< 10	38	
BB29029	205 226	< 0.01	5	9 < 0.01	21	< 10	60	3.98	10	< 1	1	< 0.01	< 10	< 10	< 1	< 10	10	
BB29030	205 226	< 0.01	5	28 < 0.01	3	50	32	0.71	2	< 1	8	< 0.01	< 10	< 10	1	< 10	20	
BB29031	205 226	< 0.01	20	61 < 0.01	5	20	558	0.08	18	< 1	3	< 0.01	< 10	< 10	< 1	< 10	12	
BB29032	205 226	< 0.01	25	521 < 0.01	4	< 10	144	1.16	< 2	< 1	1	< 0.01	< 10	< 10	< 1	< 10	4	
BB29034	205 226	< 0.01	100	8 < 0.01	6	80	20	0.01	46	< 1	75	< 0.01	< 10	< 10	3	< 10	2	
BB29035	205 226	0.07	60	15 < 0.01	2	40	18	0.51	< 2	< 1	5	< 0.01	< 10	< 10	< 1	< 10	8	
BB29042	205 226	< 0.01	15	1 < 0.01	5	550	6	0.04	< 2	1	13	< 0.01	< 10	< 10	27	< 10	2	
BB29043	205 226	0.28	190	2 < 0.01	7	120	< 2	< 0.01	< 2	7	15	0.03	< 10	< 10	5	< 10	70	
BB29044	205 226	0.30	225	1 0.03	5	130	< 2	< 0.01	< 2	8	8	0.07	< 10	< 10	7	< 10	66	
BB29045	205 226	0.21	405	1 < 0.01	8	190	8	0.02	< 2	5	12	0.02	< 10	< 10	12	< 10	52	
BB29046	205 226	0.08	215	1 < 0.01	7	240	< 2	< 0.01	< 2	4	3	0.02	< 10	< 10	10	< 10	28	
BB29047	205 226	0.14	220	1 < 0.01	10	610	4	< 0.01	< 2	10	7	0.04	< 10	< 10	26	< 10	60	
BB29048	205 226	0.01	30	1 < 0.01	4	260	2	< 0.01	< 2	1	11	< 0.01	< 10	< 10	15	< 10	12	
BB29049	205 226	0.01	20	1 0.01	4	220	6	< 0.01	828	1	6	< 0.01	< 10	< 10	16	< 10	6	
BB29050	205 226	0.03	15	38 < 0.01	7	100	50	>5.00	20	< 1	4	< 0.01	< 10	< 10	26	< 10	24	
BB29057	205 226	< 0.01	10	1 < 0.01	3	30	< 2	0.01	< 2	< 1	11	< 0.01	< 10	< 10	4	< 10	< 2	
BB29058	205 226	0.01	205	3 < 0.01	38	310	< 2	0.04	16	< 1	3	< 0.01	< 10	< 10	6	< 10	120	
BB29074	205 226	0.15	55	< 1 < 0.01	3	60	< 2	< 0.01	< 2	3	4	< 0.01	< 10	< 10	4	< 10	24	
BB29075	205 226	0.05	75	3 < 0.01	23	540	24	< 0.01	< 2	4	8	< 0.01	< 10	< 10	19	< 10	104	
BB29076	205 226	0.66	350	1 < 0.01	26	180	< 2	< 0.01	< 2	5	6	0.08	< 10	< 10	12	< 10	234	
BB29077	205 226	0.08	15	< 1 < 0.01	3	50	4	< 0.01	< 2	2	5	< 0.01	< 10	< 10	3	< 10	8	
BB29078	205 226	0.07	5	< 1 < 0.01	52	560	14	0.25	< 2	3	18	< 0.01	< 10	< 10	32	< 10	196	
BB29079	205 226	0.03	70	2 < 0.01	20	710	4	< 0.01	< 2	5	4	< 0.01	< 10	< 10	21	< 10	58	
BB29080	205 226	< 0.01	10	< 1 < 0.01	3	30	< 2	< 0.01	< 2	< 1	7	< 0.01	< 10	< 10	1	< 10	< 2	
BB29084	205 226	0.07	20	< 1 < 0.01	4	100	26	< 0.01	< 2	1	3	< 0.01	< 10	< 10	7	< 10	22	
BB29085	205 226	< 0.01	10	< 1 < 0.01	2	30	< 2	< 0.01	< 2	< 1	6	< 0.01	< 10	< 10	< 1	< 10	< 2	
BB29086	205 226	0.26	230	3 0.04	4	180	6	0.51	4	1	20	< 0.01	< 10	< 10	5	< 10	12	
BB29087	205 226	0.22	295	1 0.03	2	390	6	0.02	< 2	3	12	< 0.01	< 10	< 10	7	< 10	42	
BB29088	205 226	0.45	985	1 0.01	8	400	12	0.07	< 2	4	59	< 0.01	< 10	< 10	9	< 10	54	

CERTIFICATION:



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## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE	Au g/t FA+AA	Au FA g/t	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 ppm	K %	La ppm
BB29089	205 226	< 0.005	-----	< 0.2	0.32	< 2	< 10	60	< 0.5	< 2	0.11	< 0.5	1	77	1	1.32	< 10	< 1	0.12	40
BB29090	205 226	< 0.005	-----	< 0.2	0.71	26	< 10	230	4.5	< 2	0.14	< 0.5	9	16	30	1.90	< 10	< 1	0.24	10
BB29091	205 226	< 0.005	-----	0.2	0.27	26	< 10	120	2.0	< 2	0.06	< 0.5	5	109	40	2.98	< 10	< 1	0.07	< 10
BB29092	205 226	0.005	-----	< 0.2	0.37	< 2	< 10	190	< 0.5	< 2	0.03	< 0.5	< 1	97	5	0.29	< 10	< 1	0.04	10
BB29103	205 226	0.005	-----	< 0.2	1.93	4	< 10	80	< 0.5	< 2	1.18	< 0.5	18	38	108	3.20	< 10	< 1	0.19	< 10
BB29104	205 226	0.010	-----	< 0.2	1.96	6	< 10	100	< 0.5	< 2	2.03	< 0.5	17	36	123	3.92	< 10	< 1	0.22	< 10
BB29105	205 226	0.010	-----	< 0.2	1.73	2	< 10	200	1.0	< 2	4.76	< 0.5	16	57	87	3.68	< 10	< 1	0.35	10
BB29109	205 226	< 0.005	-----	< 0.2	1.25	8	< 10	140	1.5	< 2	0.76	< 0.5	11	51	12	3.24	< 10	< 1	0.30	40
M451841	205 226	< 0.005	-----	< 0.2	0.04	< 2	< 10	< 10	< 0.5	< 2	0.02	< 0.5	< 1	212	1	0.30	< 10	< 1	0.01	< 10
M451842	205 226	0.020	-----	< 0.2	0.48	1695	< 10	1810	1.0	< 2	0.02	< 0.5	3	109	110	8.98	< 10	20	0.04	< 10
M451843	205 226	< 0.005	-----	< 0.2	0.09	12	< 10	40	< 0.5	< 2	< 0.01	< 0.5	2	203	6	0.96	< 10	< 1	0.01	< 10
M451844	205 226	< 0.005	-----	< 0.2	0.05	22	< 10	100	< 0.5	< 2	< 0.01	< 0.5	< 1	158	4	0.36	< 10	< 1	0.01	< 10
M451845	205 226	0.005	-----	< 0.2	0.01	< 2	< 10	10	< 0.5	< 2	0.01	< 0.5	1	179	3	0.33	< 10	< 1	< 0.01	< 10
M451846	205 226	< 0.005	-----	< 0.2	0.03	10	< 10	30	< 0.5	< 2	< 0.01	< 0.5	1	143	7	2.43	< 10	< 1	< 0.01	< 10
M451847	205 226	< 0.005	-----	0.2	0.02	22	< 10	10	< 0.5	< 2	6.09	< 0.5	4	97	24	0.73	< 10	< 1	< 0.01	< 10
M451848	205 226	< 0.005	-----	0.6	0.03	12	< 10	40	< 0.5	< 2	0.03	< 0.5	< 1	156	3	0.41	< 10	< 1	0.01	< 10
M451849	205 226	0.020	-----	0.4	0.16	472	< 10	80	< 0.5	< 2	0.04	< 0.5	4	126	77	4.46	< 10	< 1	0.01	< 10
M451850	205 226	0.005	-----	0.6	0.32	82	< 10	60	< 0.5	< 2	0.03	< 0.5	4	85	22	3.27	< 10	1	0.02	< 10
M451873	205 226	< 0.005	-----	< 0.2	0.05	8	< 10	620	< 0.5	< 2	< 0.01	< 0.5	< 1	244	2	0.36	< 10	< 1	< 0.01	< 10
M451874	205 226	0.275	-----	8.6	0.02	2	< 10	190	< 0.5	< 2	< 0.01	0.5	< 1	198	6	0.43	< 10	< 1	< 0.01	< 10
M451875	205 226	< 0.005	-----	< 0.2	0.01	4	< 10	10	< 0.5	< 2	< 0.01	< 0.5	< 1	196	3	0.36	< 10	< 1	< 0.01	< 10
M451876	205 226	< 0.005	-----	0.2	0.04	6	< 10	10	< 0.5	< 2	< 0.01	< 0.5	< 1	144	1	0.31	< 10	< 1	0.01	< 10
M451877	205 226	0.925	-----	29.8	0.07	26	< 10	690	< 0.5	< 2	< 0.01	2.0	2	139	30	1.80	< 10	< 1	0.09	< 10
M451878	205 226	0.015	-----	< 0.2	0.03	32	< 10	90	< 0.5	< 2	< 0.01	< 0.5	< 1	154	2	0.61	< 10	< 1	< 0.01	< 10
M451879	205 226	0.460	-----	1.8	0.12	10	< 10	30	< 0.5	2	< 0.01	< 0.5	< 1	154	3	0.43	< 10	< 1	< 0.01	< 10
M451880	205 226	< 0.005	-----	< 0.2	0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 0.5	< 1	184	1	0.29	< 10	< 1	< 0.01	< 10
M451881	205 226	< 0.005	-----	9.0	0.23	32	< 10	50	< 0.5	16	0.01	< 0.5	1	148	572	0.58	< 10	< 1	0.12	< 10
M451882	205 226	< 0.005	-----	< 0.2	0.32	4	< 10	160	< 0.5	< 2	0.02	< 0.5	2	103	6	0.77	< 10	< 1	0.22	10
M451883	205 226	0.410	-----	30.4	0.03	6	< 10	50	< 0.5	36	< 0.01	3.5	< 1	161	11	0.35	< 10	< 1	< 0.01	< 10
M451884	205 226	< 0.005	-----	0.2	0.01	2	< 10	20	< 0.5	< 2	< 0.01	< 0.5	< 1	183	2	0.32	< 10	< 1	0.01	< 10
M451885	205 226	< 0.005	-----	< 0.2	0.16	36	10	40	< 0.5	< 2	0.01	< 0.5	1	178	4	0.39	< 10	< 1	0.02	< 10
M451886	205 226	< 0.005	-----	< 0.2	0.14	14	< 10	50	< 0.5	< 2	< 0.01	< 0.5	< 1	136	4	0.35	< 10	< 1	0.04	< 10
M451887	205 226	0.005	-----	0.8	0.04	4	< 10	80	< 0.5	< 2	< 0.01	< 0.5	< 1	212	8	0.68	< 10	< 1	0.02	< 10
M451888	205 226	< 0.005	-----	< 0.2	0.35	24	< 10	130	< 0.5	< 2	0.01	< 0.5	1	120	21	0.74	< 10	1	0.05	< 10
M451889	205 226	0.100	-----	69.4	0.03	114	< 10	40	< 0.5	102	< 0.01	< 0.5	< 1	163	8	0.38	< 10	8	< 0.01	< 10
M451890	205 226	0.010	-----	0.6	0.56	6	< 10	120	< 0.5	< 2	0.92	< 0.5	2	51	27	1.36	< 10	< 1	0.04	70
M451891	205 226	< 0.005	-----	0.4	0.03	< 2	10	140	< 0.5	< 2	0.03	< 0.5	1	156	56	0.36	< 10	< 1	< 0.01	< 10
M451892	205 226	0.025	-----	4.8	0.01	2	< 10	10	< 0.5	6	< 0.01	< 0.5	< 1	163	3	0.29	< 10	< 1	< 0.01	< 10
M451893	205 226	< 0.005	-----	< 0.2	0.01	4	< 10	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	159	3	0.33	< 10	< 1	< 0.01	< 10
M451894	205 226	1.745	-----	0.2	0.09	14	10	10	< 0.5	18	< 0.01	< 0.5	< 1	135	7	0.71	< 10	< 1	< 0.01	10

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# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Page: 2-B  
Total: 3  
Certificate Date: 12-JUL-1999  
Invoice No.: 19921719  
P.O. Number:  
Account: RDF

Project: EUREKA-EUREKA  
Comments:

## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE		Mg %	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
	BB29089	205	226	0.13	180	< 1	0.04	3	180	8 < 0.01	< 2	1	10 < 0.01	< 10	< 10	< 10	5	< 10	< 10
BB29090	205	226	0.19	805	1 < 0.01		26	70	24 < 0.18	6	6	28 < 0.01	< 10	< 10	< 10	50	12	< 10	100
BB29091	205	226	0.03	95	1 < 0.01		29	170	8 < 0.01	8	5	15 < 0.01	< 10	< 10	< 10	33	< 10	< 10	56
BB29092	205	226	0.03	45	< 1 < 0.01		4	50	8 < 0.01	< 2	3	10 < 0.01	< 10	< 10	< 10	4	< 10	< 10	10
BB29103	205	226	1.70	455	< 1	0.03	27	470	< 2	0.01	2	8	41	0.01	< 10	< 10	74	< 10	44
BB29104	205	226	1.40	490	< 1	0.03	24	610	< 2	0.06	< 2	8	55	0.01	< 10	< 10	88	< 10	36
BB29105	205	226	1.81	1650	1 < 0.01		35	430	2	0.09	2	8	163 < 0.01	< 10	< 10	< 10	55	< 10	50
BB29109	205	226	0.59	285	1 < 0.01		25	410	6 < 0.01	< 2	4	20 < 0.01	< 10	< 10	< 10	23	< 10	< 10	40
M451841	205	226	0.01	25	1 < 0.01		4	< 10	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	1	< 10	< 10	< 2
M451842	205	226	0.01	75	5 < 0.01		9	1710	28	0.01	18	1	182 < 0.01	< 10	< 10	55	< 10	< 10	20
M451843	205	226	< 0.01	120	1 < 0.01		5	40	< 2 < 0.01	< 2	< 1	1	1 < 0.01	< 10	< 10	5	< 10	< 10	18
M451844	205	226	< 0.01	20	1 < 0.01		3	40	2 < 0.01	4	< 1	2	2 < 0.01	< 10	< 10	1	< 10	< 10	< 2
M451845	205	226	< 0.01	90	1 < 0.01		4	10	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	1	< 10	< 10	2
M451846	205	226	< 0.01	45	1 < 0.01		23	270	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	2	< 10	< 10	56
M451847	205	226	0.17	535	1 < 0.01		32	20	< 2	0.58	< 2	< 1	34 < 0.01	< 10	< 10	< 1	< 10	< 10	6
M451848	205	226	< 0.01	30	1 < 0.01		3	60	66	0.01	< 2	< 1	3 < 0.01	< 10	< 10	5	< 10	< 10	< 2
M451849	205	226	< 0.01	115	9 < 0.01		9	510	30 < 0.01	32	< 1	6	6 < 0.01	< 10	< 10	10	< 10	< 10	26
M451850	205	226	< 0.01	15	8 < 0.01		15	190	32	2.43	14	< 1	4 < 0.01	< 10	< 10	8	< 10	< 10	24
M451873	205	226	< 0.01	20	1 < 0.01		5	10	< 2	0.01	< 2	< 1	1 < 0.01	< 10	< 10	< 1	< 10	< 10	2
M451874	205	226	< 0.01	15	44 < 0.01		4	10	50	0.09	< 2	< 1	3 < 0.01	< 10	< 10	1	< 10	< 10	10
M451875	205	226	< 0.01	135	1 < 0.01		5	30	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	1	< 10	< 10	4
M451876	205	226	< 0.01	15	1 < 0.01		3	10	< 2	0.02	< 2	< 1	1 < 0.01	< 10	< 10	1	< 10	< 10	< 2
M451877	205	226	< 0.01	45	62 < 0.01		11	90	280	0.26	< 2	2	15 < 0.01	< 10	< 10	3	< 10	< 10	34
M451878	205	226	< 0.01	30	3 < 0.01		6	10	8 < 0.01	4	< 1	2	2 < 0.01	< 10	< 10	1	< 10	< 10	14
M451879	205	226	< 0.01	25	1 < 0.01		6	40	30 < 0.01	2	< 1	5	5 < 0.01	< 10	< 10	5	< 10	< 10	4
M451880	205	226	< 0.01	20	1 < 0.01		4	< 10	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	< 1	< 10	< 10	< 2
M451881	205	226	0.01	130	1 < 0.01		4	30	1380	0.06	10	< 1	4 < 0.01	< 10	< 10	1	< 10	< 10	10
M451882	205	226	0.01	480	2 < 0.01		5	50	28	0.02	< 2	< 1	7 < 0.01	< 10	< 10	1	< 10	< 10	14
M451883	205	226	< 0.01	25	7 < 0.01		4	90	864	0.01	< 2	< 1	1 < 0.01	< 10	< 10	1	< 10	< 10	42
M451884	205	226	< 0.01	20	4 < 0.01		4	10	10	0.01	< 2	< 1	< 1 < 0.01	< 10	< 10	< 1	< 10	< 10	< 2
M451885	205	226	0.01	30	2 < 0.01		6	40	4 < 0.01	4	< 1	15	15 < 0.01	< 10	< 10	3	< 10	< 10	2
M451886	205	226	< 0.01	35	3 < 0.01		4	30	< 2 < 0.01	8	< 1	17	17 < 0.01	< 10	< 10	4	< 10	< 10	< 2
M451887	205	226	< 0.01	35	8 < 0.01		7	100	80	0.03	< 2	< 1	9 < 0.01	< 10	< 10	3	< 10	< 10	6
M451888	205	226	< 0.01	45	6 < 0.01		5	50	6	0.14	< 2	< 1	4 < 0.01	< 10	< 10	1	< 10	< 10	8
M451889	205	226	< 0.01	25	9 < 0.01		4	90	718	0.01	112	< 1	1 < 0.01	< 10	< 10	1	< 10	< 10	8
M451890	205	226	0.15	295	1	0.12	3	250	12	0.15	< 2	5	60	0.08	< 10	< 10	8	< 10	18
M451891	205	226	0.01	20	12 < 0.01		6	< 10	56	0.03	< 2	< 1	1 < 0.01	< 10	< 10	1	< 10	< 10	< 2
M451892	205	226	< 0.01	20	4 < 0.01		4	< 10	70 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	< 1	< 10	< 10	< 2
M451893	205	226	< 0.01	25	1 < 0.01		5	< 10	< 2 < 0.01	< 2	< 1	< 1	< 1 < 0.01	< 10	< 10	< 1	< 10	< 10	< 2
M451894	205	226	< 0.01	15	1 < 0.01		5	170	< 2 < 0.01	< 2	< 1	3	3 < 0.01	< 10	< 10	8	< 10	< 10	2

CERTIFICATION:



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To: EUREKA JOINT VENTURE  
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 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 3-A  
 Total Pages : 3  
 Certificate Date: 12-JUL-1999  
 Invoice No. : 19921719  
 P.O. Number :  
 Account : RDF

Project : EUREKA-EUREKA  
 Comments:

## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE		Au g/t	Au FA	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
			FA+AA	g/t	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
M451895	205	226	0.340	-----	1.0	0.52	250	< 10	80	0.5	2	0.01	< 0.5	6	112	93	7.96	< 10	< 1	0.08	10
M451896	205	226	0.220	-----	0.6	0.61	106	< 10	80	0.5	< 2	< 0.01	< 0.5	5	115	70	5.12	< 10	1	0.15	10
M451897	205	226	0.395	-----	0.6	0.50	170	< 10	80	0.5	2	0.01	0.5	2	126	59	3.74	< 10	1	0.14	10
M451898	205	226	0.500	-----	0.6	0.46	142	< 10	100	0.5	< 2	< 0.01	< 0.5	1	129	48	3.06	< 10	1	0.12	10
M451899	205	226	0.285	-----	0.2	0.51	206	< 10	290	< 0.5	< 2	0.01	< 0.5	2	90	51	1.87	< 10	1	0.09	10
M451900	205	226	0.005	-----	< 0.2	0.03	6	< 10	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	180	1	1.06	< 10	< 1	0.01	< 10

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To: EUREKA JOINT VENTURE  
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WHITEHORSE, YT  
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Project: EUREKA-EUREKA  
Comments:

Page Number: 3-B  
Total Pages: 3  
Certificate Date: 12-JUL-1999  
Invoice No.: 19921719  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9921719

SAMPLE	PREP CODE		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
M451895	205	226	0.01	125	11 < 0.01	31	2110	10 < 0.01	< 2	1	7 < 0.01	< 10	< 10	29	< 10	80			
M451896	205	226	0.01	50	9 < 0.01	22	1350	10 < 0.01	2	1	9 < 0.01	< 10	< 10	22	< 10	46			
M451897	205	226	0.01	25	7 < 0.01	16	970	14 < 0.01	< 2	1	21 < 0.01	< 10	< 10	21	< 10	32			
M451898	205	226	0.01	30	5 < 0.01	15	790	12 < 0.01	< 2	1	22 < 0.01	< 10	< 10	19	< 10	26			
M451899	205	226	0.01	20	19 < 0.01	5	580	6 < 0.01	< 2	1	101 < 0.01	< 10	< 10	23	< 10	12			
M451900	205	226	< 0.01	35	1 < 0.01	4	10	< 2 < 0.01	< 2	< 1	1 < 0.01	< 10	< 10	1	< 10	12			

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Page Number : 1-A  
 Total Pages : 3  
 Certificate Date: 13-JUL-1999  
 Invoice No. : 19921718  
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 Account : RDF

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## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
BB04945	201	202	5	< 0.2	1.25	14	< 10	200	< 0.5	< 2	0.41	< 0.5	9	19	20	2.36	< 10	< 1	0.09	10	0.48
BB04946	201	202	< 5	< 0.2	1.53	14	< 10	270	< 0.5	< 2	0.93	< 0.5	11	23	29	2.62	< 10	< 1	0.10	10	0.79
BB04947	201	202	5	< 0.2	2.16	8	< 10	120	0.5	< 2	0.21	< 0.5	10	27	18	3.11	< 10	1	0.32	20	0.67
BB04948	201	202	15	0.2	1.62	6	< 10	200	< 0.5	< 2	0.22	< 0.5	6	21	14	1.98	< 10	< 1	0.22	20	0.51
BB04949	201	202	15	0.2	1.57	14	< 10	240	< 0.5	< 2	0.29	< 0.5	9	22	14	2.67	< 10	< 1	0.16	20	0.47
BB04950	201	202	10	< 0.2	1.28	14	< 10	200	< 0.5	< 2	0.50	< 0.5	8	22	19	2.35	< 10	< 1	0.13	10	0.57
BB04951	201	202	35	< 0.2	1.53	8	< 10	90	< 0.5	< 2	0.20	< 0.5	6	18	8	2.10	< 10	< 1	0.18	20	0.44
BB04952	201	202	20	< 0.2	3.86	12	< 10	260	0.5	< 2	0.23	< 0.5	15	49	20	4.75	10	1	0.67	10	1.04
BB04953	201	202	10	< 0.2	1.34	26	< 10	230	< 0.5	< 2	0.39	< 0.5	9	19	22	2.45	< 10	< 1	0.10	10	0.48
BB04954	201	202	10	< 0.2	1.96	24	< 10	410	< 0.5	< 2	0.15	< 0.5	8	24	19	3.36	< 10	< 1	0.05	10	0.38
BB04955	201	202	< 5	< 0.2	1.29	12	< 10	220	< 0.5	< 2	0.28	< 0.5	9	19	14	2.32	< 10	1	0.10	10	0.41
BB04956	201	202	< 5	< 0.2	1.47	16	< 10	300	< 0.5	< 2	0.89	0.5	10	24	24	2.49	< 10	< 1	0.18	10	0.83
BB04957	201	202	< 5	< 0.2	1.58	14	< 10	290	< 0.5	< 2	0.72	< 0.5	10	24	25	2.48	< 10	< 1	0.22	10	0.84
BB04958	201	202	< 5	< 0.2	1.31	10	< 10	240	< 0.5	< 2	0.51	< 0.5	9	20	24	2.34	< 10	< 1	0.06	10	0.54
BB04959	201	202	< 5	< 0.2	1.23	8	< 10	160	< 0.5	< 2	0.26	< 0.5	9	15	12	2.12	< 10	< 1	0.12	10	0.41
BB04960	201	202	< 5	< 0.2	1.40	16	< 10	260	< 0.5	< 2	0.51	< 0.5	11	33	23	2.53	< 10	< 1	0.11	20	0.58
BB04961	201	202	10	< 0.2	1.34	8	< 10	190	< 0.5	< 2	0.22	< 0.5	5	31	15	1.71	< 10	1	0.08	10	0.49
BB04962	201	202	< 5	< 0.2	1.42	8	< 10	170	< 0.5	< 2	0.25	< 0.5	6	37	12	1.95	< 10	< 1	0.16	< 10	0.68
BB04963	201	202	< 5	< 0.2	1.37	12	< 10	190	< 0.5	< 2	0.24	< 0.5	7	31	15	2.03	< 10	< 1	0.14	10	0.61
BB04964	201	202	< 5	< 0.2	1.33	14	< 10	330	< 0.5	< 2	0.47	0.5	14	54	16	2.84	< 10	1	0.08	20	0.59
BB04965	201	202	< 5	< 0.2	1.26	12	< 10	280	< 0.5	< 2	0.43	< 0.5	12	62	17	2.43	< 10	2	0.08	20	0.59
BB04966	201	202	< 5	0.2	1.36	14	< 10	320	< 0.5	< 2	0.31	< 0.5	15	32	20	2.60	< 10	1	0.05	20	0.50
BB04967	201	202	< 5	< 0.2	1.66	10	< 10	130	< 0.5	< 2	0.28	< 0.5	8	22	12	2.45	< 10	< 1	0.27	20	0.58
BB04968	201	202	< 5	< 0.2	1.37	6	< 10	250	< 0.5	< 2	0.53	< 0.5	9	35	14	2.13	< 10	< 1	0.13	10	0.63
BB04969	201	202	10	0.2	2.00	12	< 10	350	< 0.5	< 2	0.94	0.5	13	46	32	2.81	< 10	1	0.19	30	0.76
BB04970	201	202	< 5	< 0.2	1.55	10	< 10	220	< 0.5	< 2	0.47	< 0.5	10	65	11	2.19	< 10	< 1	0.14	20	0.78
BB04971	201	202	10	< 0.2	1.56	10	< 10	200	< 0.5	< 2	0.22	< 0.5	5	27	11	2.08	< 10	1	0.06	10	0.43
BB04972	201	202	< 5	< 0.2	1.28	6	< 10	180	< 0.5	< 2	0.24	< 0.5	4	27	10	1.60	< 10	1	0.10	< 10	0.50
BB04973	201	202	< 5	0.2	1.34	10	< 10	240	< 0.5	< 2	0.27	< 0.5	7	27	13	2.04	< 10	< 1	0.12	10	0.55
BB04974	201	202	10	< 0.2	1.31	8	< 10	240	< 0.5	< 2	0.29	< 0.5	6	26	12	1.91	< 10	1	0.12	10	0.53
BB04975	201	202	< 5	< 0.2	1.54	12	< 10	250	< 0.5	< 2	0.34	< 0.5	9	30	19	2.26	< 10	< 1	0.15	10	0.63
BB04976	201	202	30	0.2	1.23	24	< 10	170	< 0.5	< 2	0.19	< 0.5	6	20	23	2.37	< 10	1	0.11	20	0.37
BB04977	201	202	15	< 0.2	1.07	16	< 10	530	< 0.5	< 2	1.54	< 0.5	8	20	21	2.51	< 10	< 1	0.07	10	0.78
BB04978	201	202	10	< 0.2	1.14	10	< 10	290	< 0.5	< 2	0.50	< 0.5	8	18	14	2.11	< 10	< 1	0.05	10	0.49
BB04979	201	202	< 5	< 0.2	1.31	10	< 10	280	< 0.5	< 2	0.44	< 0.5	6	21	15	1.65	< 10	< 1	0.04	20	0.42
BB04980	201	202	< 5	< 0.2	1.07	2	< 10	270	< 0.5	< 2	0.56	< 0.5	6	18	16	1.56	< 10	< 1	0.04	20	0.39
BB04981	201	202	5	< 0.2	1.33	20	< 10	310	< 0.5	< 2	0.32	< 0.5	10	22	15	3.58	< 10	1	0.05	30	0.41
BB04982	201	202	< 5	< 0.2	1.05	12	< 10	210	< 0.5	< 2	0.26	< 0.5	7	18	12	2.22	< 10	< 1	0.04	10	0.36
BB04983	201	202	< 5	< 0.2	1.09	10	< 10	190	< 0.5	< 2	0.38	< 0.5	8	22	14	1.95	< 10	1	0.06	20	0.40
BB04984	201	202	< 5	< 0.2	1.35	10	< 10	210	< 0.5	< 2	0.39	< 0.5	7	28	16	1.94	< 10	1	0.05	20	0.47

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: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project: EUREKA-EUREKA  
Comments:

Page Number: 1-B  
Total Pages: 3  
Certificate Date: 13-JUL-1999  
Invoice No.: I9921718  
P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB04945	201	202	260	1	0.01	23	540	6	0.01	< 2	3	23	0.07	< 10	< 10	36	< 10	66
BB04946	201	202	380	1	0.02	28	700	6	0.04	< 2	4	46	0.08	< 10	< 10	45	< 10	78
BB04947	201	202	355	< 1	< 0.01	20	440	8	< 0.01	< 2	4	14	0.12	< 10	< 10	40	< 10	64
BB04948	201	202	170	< 1	< 0.01	16	380	6	0.02	< 2	3	15	0.09	< 10	< 10	27	< 10	56
BB04949	201	202	310	1	< 0.01	18	520	8	0.03	< 2	3	19	0.07	< 10	< 10	35	< 10	64
BB04950	201	202	275	1	0.01	24	720	6	0.02	< 2	3	29	0.08	< 10	< 10	40	< 10	60
BB04951	201	202	165	< 1	< 0.01	13	470	6	0.01	< 2	3	12	0.10	< 10	< 10	29	< 10	40
BB04952	201	202	395	1	0.01	29	220	8	< 0.01	< 2	7	17	0.22	< 10	< 10	73	< 10	90
BB04953	201	202	290	1	0.01	22	550	10	0.03	< 2	3	25	0.07	< 10	< 10	39	< 10	68
BB04954	201	202	275	2	< 0.01	21	220	10	< 0.01	< 2	3	18	0.06	< 10	< 10	62	< 10	56
BB04955	201	202	525	< 1	< 0.01	17	590	6	0.01	< 2	3	19	0.07	< 10	< 10	36	< 10	58
BB04956	201	202	615	< 1	< 0.01	25	620	6	0.04	< 2	4	32	0.07	< 10	< 10	36	< 10	98
BB04957	201	202	600	< 1	< 0.01	24	560	16	0.04	< 2	4	26	0.07	< 10	< 10	34	< 10	110
BB04958	201	202	285	< 1	0.01	20	600	6	< 0.01	< 2	3	28	0.07	< 10	< 10	40	< 10	54
BB04959	201	202	430	1	< 0.01	14	510	6	0.01	< 2	3	13	0.06	< 10	< 10	29	< 10	52
BB04960	201	202	385	1	< 0.01	26	620	8	0.03	< 2	4	22	0.06	< 10	< 10	40	< 10	78
BB04961	201	202	135	1	< 0.01	18	440	4	0.01	< 2	3	14	0.06	< 10	< 10	37	< 10	60
BB04962	201	202	170	1	0.01	14	540	< 2	0.01	< 2	3	11	0.09	< 10	< 10	41	< 10	54
BB04963	201	202	175	1	0.01	15	520	2	0.02	< 2	3	13	0.09	< 10	< 10	42	< 10	56
BB04964	201	202	1220	1	< 0.01	33	580	8	0.02	< 2	4	24	0.06	< 10	< 10	38	< 10	74
BB04965	201	202	695	1	< 0.01	33	590	6	0.02	< 2	3	20	0.06	< 10	< 10	36	< 10	72
BB04966	201	202	770	2	< 0.01	26	650	6	0.04	< 2	4	19	0.05	< 10	< 10	49	< 10	78
BB04967	201	202	285	1	0.01	17	590	6	0.01	< 2	3	16	0.11	< 10	< 10	34	< 10	64
BB04968	201	202	325	1	0.01	24	760	4	0.04	< 2	3	27	0.08	< 10	< 10	35	< 10	60
BB04969	201	202	720	1	0.01	42	600	30	0.06	< 2	5	33	0.08	< 10	< 10	46	< 10	90
BB04970	201	202	345	< 1	0.01	44	560	6	0.03	< 2	3	22	0.08	< 10	< 10	32	< 10	60
BB04971	201	202	155	< 1	< 0.01	15	500	10	0.03	< 2	3	17	0.06	< 10	< 10	35	< 10	52
BB04972	201	202	155	< 1	< 0.01	9	660	2	0.01	< 2	3	10	0.08	< 10	< 10	28	< 10	44
BB04973	201	202	305	1	< 0.01	14	520	8	0.01	< 2	3	13	0.08	< 10	< 10	33	< 10	56
BB04974	201	202	255	1	< 0.01	13	620	10	0.01	< 2	3	14	0.08	< 10	< 10	32	< 10	52
BB04975	201	202	290	1	< 0.01	17	600	10	0.02	< 2	3	16	0.09	< 10	< 10	38	< 10	64
BB04976	201	202	170	1	< 0.01	17	520	6	0.01	< 2	3	20	0.06	< 10	< 10	39	< 10	62
BB04977	201	202	310	1	0.01	21	820	2	0.03	< 2	3	56	0.06	< 10	< 10	44	< 10	66
BB04978	201	202	315	< 1	0.01	23	700	< 2	0.02	< 2	3	28	0.05	< 10	< 10	32	< 10	60
BB04979	201	202	130	1	0.01	16	480	6	0.01	< 2	3	23	0.05	< 10	< 10	35	< 10	62
BB04980	201	202	180	1	0.01	16	470	6	0.03	< 2	3	26	0.04	< 10	< 10	27	< 10	56
BB04981	201	202	405	1	< 0.01	20	750	8	0.04	< 2	3	23	0.04	< 10	< 10	38	< 10	70
BB04982	201	202	225	1	< 0.01	16	510	6	0.01	< 2	3	16	0.04	< 10	< 10	31	< 10	56
BB04983	201	202	305	1	< 0.01	20	510	8	0.01	< 2	3	20	0.05	< 10	< 10	29	< 10	50
BB04984	201	202	150	< 1	< 0.01	27	490	8	0.02	< 2	4	20	0.05	< 10	< 10	33	< 10	62

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

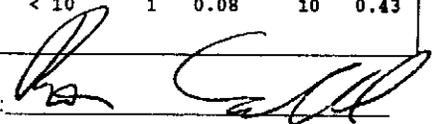
To: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Project: EUREKA-EUREKA  
 Comments:

Page Number: 2-A  
 Total Pages: 3  
 Certificate Date: 13-JUL-1999  
 Invoice No.: 19921718  
 P.O. Number:  
 Account: RDF

## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
BB04985	201	202	< 5	< 0.2	1.12	6	< 10	230	< 0.5	< 2	0.46	< 0.5	6	18	11	1.84	< 10	< 1	0.06	10	0.45
BB04989	201	202	5	< 0.2	1.13	8	< 10	290	< 0.5	< 2	1.27	< 0.5	8	18	16	2.09	< 10	< 1	0.06	10	0.64
BB04990	201	202	< 5	< 0.2	1.08	8	< 10	210	< 0.5	< 2	4.13	< 0.5	8	14	14	1.81	< 10	< 1	0.06	< 10	0.57
BB04991	201	202	< 5	< 0.2	1.34	12	< 10	290	< 0.5	< 2	0.69	< 0.5	10	20	21	2.47	< 10	1	0.06	10	0.53
BB04992	201	202	< 5	< 0.2	1.53	6	< 10	250	< 0.5	< 2	0.36	< 0.5	9	21	17	2.38	< 10	< 1	0.08	10	0.47
BB04993	201	202	< 5	< 0.2	2.70	18	< 10	480	0.5	< 2	0.27	< 0.5	9	34	27	2.94	< 10	< 1	0.04	10	0.53
BB04994	201	202	< 5	< 0.2	2.47	12	< 10	230	< 0.5	< 2	0.41	< 0.5	21	222	37	4.05	< 10	1	0.03	< 10	1.47
BB04995	201	202	< 5	< 0.2	1.36	6	< 10	170	< 0.5	< 2	0.28	< 0.5	7	57	16	1.79	< 10	1	0.05	10	0.66
BB04996	201	202	< 5	< 0.2	1.53	8	< 10	230	< 0.5	< 2	0.37	< 0.5	9	31	20	2.14	< 10	< 1	0.06	10	0.55
BB04997	201	202	< 5	< 0.2	1.62	14	< 10	240	< 0.5	< 2	0.45	< 0.5	8	29	23	2.37	< 10	< 1	0.04	10	0.52
BB04998	201	202	< 5	< 0.2	1.72	12	< 10	320	< 0.5	< 2	0.60	< 0.5	10	26	31	2.70	< 10	< 1	0.07	10	0.59
BB04999	201	202	< 5	< 0.2	1.51	12	< 10	340	< 0.5	< 2	0.52	< 0.5	10	23	35	2.73	< 10	< 1	0.06	10	0.59
BB05000	201	202	< 5	< 0.2	1.58	12	< 10	330	< 0.5	< 2	0.67	< 0.5	11	24	28	2.74	< 10	< 1	0.07	10	0.68
BB29001	201	202	5	< 0.2	1.07	22	< 10	250	< 0.5	< 2	0.28	< 0.5	7	16	19	1.96	< 10	< 1	0.05	10	0.35
BB29002	201	202	< 5	< 0.2	1.09	36	< 10	240	< 0.5	< 2	0.22	< 0.5	5	15	11	3.03	< 10	< 1	0.05	10	0.26
BB29003	201	202	10	0.2	1.10	42	< 10	270	< 0.5	< 2	0.22	< 0.5	11	15	15	2.96	< 10	1	0.05	10	0.24
BB29004	201	202	55	< 0.2	1.02	14	< 10	160	< 0.5	< 2	0.17	< 0.5	5	14	10	1.65	< 10	< 1	0.03	< 10	0.29
BB29005	201	202	45	< 0.2	1.13	22	< 10	80	< 0.5	< 2	0.16	< 0.5	6	17	12	2.09	< 10	< 1	0.15	20	0.39
BB29006	201	202	10	< 0.2	1.12	28	< 10	100	< 0.5	< 2	0.20	< 0.5	6	16	13	2.16	< 10	< 1	0.14	10	0.43
BB29007	201	202	35	< 0.2	1.08	64	< 10	230	< 0.5	< 2	0.69	< 0.5	13	15	17	7.12	< 10	< 1	0.14	20	0.36
BB29008	201	202	5	< 0.2	1.01	20	< 10	160	< 0.5	< 2	0.15	< 0.5	6	16	13	2.23	< 10	< 1	0.04	10	0.27
BB29009	201	202	70	< 0.2	1.12	28	< 10	250	< 0.5	< 2	0.30	< 0.5	8	13	15	2.38	< 10	< 1	0.16	10	0.44
BB29010	201	202	< 5	< 0.2	1.09	22	< 10	230	< 0.5	< 2	0.39	< 0.5	9	16	18	2.35	< 10	< 1	0.07	10	0.46
BB29013	201	202	15	< 0.2	1.24	22	< 10	270	< 0.5	< 2	0.46	< 0.5	12	21	23	2.69	< 10	< 1	0.10	20	0.44
BB29014	201	202	< 5	< 0.2	1.34	24	< 10	250	< 0.5	< 2	0.41	0.5	14	22	27	3.01	< 10	1	0.12	30	0.45
BB29015	201	202	< 5	< 0.2	1.49	10	< 10	390	< 0.5	< 2	0.52	< 0.5	8	22	18	1.96	< 10	< 1	0.11	30	0.52
BB29016	201	202	< 5	1.2	1.42	22	< 10	490	< 0.5	< 2	0.33	0.5	8	24	30	2.66	< 10	1	0.08	20	0.42
BB29018	201	202	< 5	< 0.2	1.09	20	< 10	220	< 0.5	< 2	0.27	< 0.5	14	18	16	2.39	< 10	1	0.05	10	0.32
BB29019	201	202	< 5	< 0.2	1.40	16	< 10	230	0.5	< 2	0.48	< 0.5	10	26	27	2.58	< 10	1	0.12	70	0.48
BB29021	201	202	< 5	< 0.2	1.11	22	< 10	200	< 0.5	< 2	0.28	< 0.5	12	17	18	2.33	< 10	1	0.10	10	0.39
BB29022	201	202	< 5	< 0.2	1.00	22	< 10	200	< 0.5	< 2	0.20	< 0.5	12	19	26	2.54	< 10	1	0.10	10	0.40
BB29023	201	202	< 5	< 0.2	1.22	10	< 10	220	< 0.5	< 2	0.40	< 0.5	10	25	15	2.04	< 10	< 1	0.09	20	0.46
BB29025	201	202	10	< 0.2	0.82	18	< 10	160	< 0.5	< 2	0.31	< 0.5	7	13	13	1.91	< 10	< 1	0.19	20	0.39
BB29033	201	202	5	< 0.2	0.61	16	< 10	180	< 0.5	< 2	0.32	< 0.5	5	11	13	1.59	< 10	< 1	0.10	20	0.26
BB29036	201	202	< 5	< 0.2	1.55	10	< 10	170	< 0.5	< 2	0.28	< 0.5	10	22	18	2.48	< 10	< 1	0.17	20	0.53
BB29037	201	202	< 5	< 0.2	1.45	14	< 10	290	< 0.5	< 2	0.45	< 0.5	11	29	21	2.39	< 10	< 1	0.14	10	0.65
BB29038	201	202	< 5	< 0.2	1.36	28	< 10	220	< 0.5	< 2	0.42	< 0.5	11	28	22	2.59	< 10	1	0.13	20	0.51
BB29039	201	202	5	< 0.2	1.66	18	< 10	150	< 0.5	< 2	0.25	< 0.5	10	25	18	2.83	< 10	< 1	0.23	20	0.58
BB29040	201	202	< 5	< 0.2	1.38	28	< 10	290	< 0.5	< 2	0.37	0.5	12	21	21	2.59	< 10	1	0.08	10	0.46
BB29041	201	202	< 5	< 0.2	1.19	24	< 10	220	< 0.5	< 2	0.21	< 0.5	8	20	25	2.28	< 10	1	0.08	10	0.43

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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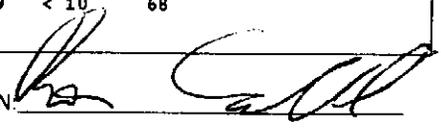
To: EUREKA JOINT VENTURE  
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## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB04985	201	202	230	1	0.01	15	650	< 2	0.01	< 2	3	26	0.06	< 10	< 10	33	< 10	52
BB04989	201	202	360	1	0.01	20	770	6	0.03	< 2	3	50	0.06	< 10	< 10	36	< 10	62
BB04990	201	202	660	< 1	0.02	19	590	< 2	0.07	< 2	2	133	0.05	< 10	< 10	27	< 10	58
BB04991	201	202	285	1	0.01	20	780	6	0.04	< 2	4	40	0.07	< 10	< 10	42	< 10	58
BB04992	201	202	315	< 1	0.01	17	580	2	0.01	< 2	4	25	0.07	< 10	< 10	40	< 10	58
BB04993	201	202	255	< 1	0.01	27	170	6	< 0.01	< 2	4	25	0.05	< 10	< 10	57	< 10	54
BB04994	201	202	295	< 1	< 0.01	170	300	< 2	< 0.01	< 2	7	26	0.05	< 10	< 10	73	< 10	56
BB04995	201	202	165	< 1	0.01	44	270	2	< 0.01	< 2	3	18	0.06	< 10	< 10	41	< 10	32
BB04996	201	202	200	< 1	0.01	22	360	6	< 0.01	< 2	4	25	0.06	< 10	< 10	43	< 10	46
BB04997	201	202	190	< 1	0.01	22	530	6	< 0.01	< 2	4	30	0.07	< 10	< 10	41	< 10	46
BB04998	201	202	335	1	0.01	29	630	8	0.01	2	5	38	0.08	< 10	< 10	51	< 10	58
BB04999	201	202	370	1	0.01	27	640	8	< 0.01	< 2	4	35	0.07	< 10	< 10	46	< 10	60
BB05000	201	202	315	1	0.02	27	770	6	0.04	< 2	4	42	0.07	< 10	< 10	46	< 10	80
BB29001	201	202	180	1	< 0.01	16	480	4	0.02	< 2	3	23	0.05	< 10	< 10	35	< 10	58
BB29002	201	202	125	1	< 0.01	13	500	8	0.03	< 2	2	20	0.04	< 10	< 10	35	< 10	50
BB29003	201	202	430	< 1	< 0.01	13	670	6	0.04	2	2	22	0.02	< 10	< 10	38	< 10	48
BB29004	201	202	105	1	< 0.01	11	490	10	0.01	< 2	1	15	0.03	< 10	< 10	29	< 10	44
BB29005	201	202	190	< 1	< 0.01	13	540	14	0.04	2	2	13	0.05	< 10	< 10	24	< 10	56
BB29006	201	202	195	< 1	< 0.01	13	550	6	0.03	< 2	2	13	0.05	< 10	< 10	27	< 10	56
BB29007	201	202	880	1	< 0.01	18	620	6	0.04	< 2	3	28	0.05	< 10	< 10	34	< 10	82
BB29008	201	202	165	< 1	< 0.01	13	490	12	0.02	< 2	1	14	0.03	< 10	< 10	34	< 10	50
BB29009	201	202	420	1	< 0.01	13	560	6	0.01	< 2	3	17	0.05	< 10	< 10	30	< 10	60
BB29010	201	202	290	< 1	0.01	19	580	10	0.02	< 2	3	23	0.05	< 10	< 10	34	< 10	70
BB29013	201	202	570	1	< 0.01	23	680	6	0.04	< 2	4	24	0.05	< 10	< 10	39	< 10	86
BB29014	201	202	775	2	< 0.01	27	690	10	0.03	< 2	4	25	0.06	< 10	< 10	40	< 10	100
BB29015	201	202	170	1	0.01	20	640	8	0.04	< 2	4	31	0.07	< 10	< 10	40	< 10	64
BB29016	201	202	320	3	< 0.01	27	820	8	0.07	< 2	4	28	0.03	< 10	< 10	44	< 10	82
BB29018	201	202	895	1	< 0.01	17	450	8	0.02	< 2	4	20	0.04	< 10	< 10	39	< 10	62
BB29019	201	202	485	2	< 0.01	23	600	12	0.04	< 2	6	25	0.06	< 10	50	36	< 10	82
BB29021	201	202	705	1	< 0.01	16	600	6	0.04	< 2	3	16	0.04	< 10	< 10	35	< 10	68
BB29022	201	202	545	1	< 0.01	23	560	< 2	0.04	2	3	12	0.04	< 10	< 10	39	< 10	82
BB29023	201	202	340	1	< 0.01	21	550	8	0.04	< 2	3	17	0.04	< 10	< 10	31	< 10	68
BB29025	201	202	330	3	< 0.01	14	690	10	0.02	2	2	14	0.04	< 10	< 10	20	< 10	54
BB29033	201	202	270	1	< 0.01	11	840	8	0.03	< 2	2	14	0.03	< 10	< 10	19	< 10	42
BB29036	201	202	415	1	< 0.01	20	540	8	0.01	< 2	3	21	0.08	< 10	< 10	34	< 10	56
BB29037	201	202	435	1	0.01	22	660	6	0.02	< 2	3	23	0.08	< 10	< 10	38	< 10	68
BB29038	201	202	435	1	< 0.01	26	590	12	0.03	< 2	4	21	0.06	< 10	< 10	37	< 10	82
BB29039	201	202	380	1	< 0.01	22	470	8	0.01	< 2	3	18	0.08	< 10	< 10	35	< 10	74
BB29040	201	202	545	1	< 0.01	23	540	6	0.03	< 2	3	19	0.04	< 10	< 10	39	< 10	84
BB29041	201	202	280	1	< 0.01	27	540	2	0.04	< 2	3	15	0.04	< 10	< 10	39	< 10	68

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 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Project : EUREKA-EUREKA  
 Comments:

Page Number : 3-A  
 Total Pages : 3  
 Certificate Date: 13-JUL-1999  
 Invoice No. : 19921718  
 P.O. Number :  
 Account : RDF

## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
BB29051	201	202	< 5	< 0.2	0.94	12	< 10	200	< 0.5	< 2	4.00	< 0.5	9	13	14	1.77	< 10	< 1	0.07	< 10	0.58
BB29052	201	202	< 5	< 0.2	0.93	6	< 10	190	< 0.5	< 2	1.33	< 0.5	8	14	14	1.77	< 10	< 1	0.06	10	0.50
BB29053	201	202	< 5	< 0.2	0.83	14	< 10	140	< 0.5	< 2	3.89	< 0.5	9	12	14	2.31	< 10	< 1	0.06	< 10	0.46
BB29054	201	202	5	< 0.2	0.90	8	< 10	210	< 0.5	< 2	0.48	< 0.5	6	14	15	1.77	< 10	< 1	0.03	< 10	0.36
BB29055	201	202	< 5	< 0.2	1.06	8	< 10	260	< 0.5	< 2	0.47	< 0.5	7	17	15	1.62	< 10	1	0.03	10	0.42
BB29056	201	202	< 5	< 0.2	0.83	14	< 10	170	< 0.5	< 2	0.76	< 0.5	10	13	14	5.18	< 10	< 1	0.05	< 10	0.38
BB29059	201	202	< 5	< 0.2	0.97	8	< 10	160	< 0.5	< 2	0.34	< 0.5	5	13	10	1.69	< 10	< 1	0.07	10	0.34
BB29060	201	202	< 5	< 0.2	1.60	10	< 10	230	< 0.5	< 2	0.29	< 0.5	6	21	18	2.30	< 10	1	0.04	10	0.48
BB29061	201	202	15	< 0.2	1.05	10	< 10	170	< 0.5	< 2	0.32	< 0.5	5	15	11	1.75	< 10	< 1	0.06	20	0.34
BB29062	201	202	< 5	< 0.2	1.17	2	< 10	180	< 0.5	< 2	0.32	< 0.5	6	16	14	1.82	< 10	1	0.04	10	0.34
BB29063	201	202	< 5	< 0.2	1.36	8	< 10	230	< 0.5	< 2	0.34	< 0.5	6	19	16	2.02	< 10	< 1	0.05	10	0.39
BB29064	201	202	< 5	< 0.2	1.42	12	< 10	220	< 0.5	< 2	0.29	< 0.5	15	20	12	2.55	< 10	1	0.04	10	0.32
BB29065	201	202	< 5	< 0.2	1.82	12	< 10	470	< 0.5	< 2	0.62	< 0.5	12	31	25	3.20	< 10	< 1	0.14	10	0.83
BB29066	201	202	5	< 0.2	1.86	10	< 10	280	< 0.5	< 2	0.31	< 0.5	9	30	14	2.86	< 10	< 1	0.11	10	0.66
BB29067	201	202	< 5	< 0.2	1.15	20	< 10	260	< 0.5	< 2	0.34	< 0.5	10	17	13	2.55	< 10	1	0.05	10	0.38
BB29068	201	202	< 5	< 0.2	1.68	14	< 10	320	< 0.5	< 2	0.56	< 0.5	9	23	21	2.65	< 10	2	0.05	10	0.49
BB29069	201	202	< 5	< 0.2	1.75	14	< 10	360	< 0.5	< 2	0.45	< 0.5	10	23	27	2.67	< 10	< 1	0.05	10	0.50
BB29070	201	202	< 5	< 0.2	1.25	10	< 10	180	< 0.5	< 2	0.28	< 0.5	5	17	15	1.83	< 10	< 1	0.03	10	0.38
BB29071	201	202	< 5	< 0.2	1.26	12	< 10	240	< 0.5	< 2	0.30	< 0.5	5	19	18	2.06	< 10	1	0.04	10	0.42
BB29072	201	202	< 5	< 0.2	1.34	6	< 10	220	< 0.5	< 2	0.27	< 0.5	6	17	15	2.01	< 10	< 1	0.03	10	0.38
BB29073	201	202	< 5	< 0.2	2.21	10	< 10	250	0.5	< 2	0.20	< 0.5	9	26	20	2.90	< 10	< 1	0.05	10	0.47
BB29082	201	202	< 5	< 0.2	1.73	16	< 10	300	< 0.5	< 2	0.51	< 0.5	10	23	30	2.73	< 10	1	0.06	10	0.57
BB29083	201	202	< 5	< 0.2	1.65	16	< 10	320	< 0.5	< 2	0.59	< 0.5	7	21	21	2.32	< 10	< 1	0.05	10	0.49

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Y1A 3S9

Project: EUREKA-EUREKA  
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Page Number: 3-B  
Total Pages: 3  
Certificate Date: 13-JUL-1999  
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P.O. Number:  
Account: RDF

## CERTIFICATE OF ANALYSIS A9921718

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB29051	201	202	810	< 1	0.03	20	590	2	0.09	< 2	2	134	0.04	< 10	< 10	25	< 10	62
BB29052	201	202	385	< 1	0.01	19	670	4	0.05	< 2	2	50	0.04	< 10	< 10	27	< 10	60
BB29053	201	202	1025	< 1	0.01	20	580	< 2	0.08	< 2	2	127	0.03	< 10	< 10	23	< 10	64
BB29054	201	202	245	< 1	< 0.01	13	630	6	0.03	< 2	2	24	0.03	< 10	< 10	28	< 10	58
BB29055	201	202	145	< 1	< 0.01	16	510	6	0.03	< 2	3	22	0.03	< 10	< 10	30	< 10	76
BB29056	201	202	415	< 1	0.01	21	590	4	0.06	< 2	3	60	0.03	< 10	< 10	25	< 10	60
BB29059	201	202	170	< 1	< 0.01	9	730	2	< 0.01	< 2	2	20	0.05	< 10	< 10	29	< 10	34
BB29060	201	202	160	< 1	< 0.01	14	460	2	< 0.01	< 2	3	23	0.05	< 10	< 10	40	< 10	56
BB29061	201	202	210	< 1	< 0.01	10	580	< 2	< 0.01	< 2	3	20	0.06	< 10	< 10	32	< 10	40
BB29062	201	202	230	1	< 0.01	12	540	6	< 0.01	< 2	3	23	0.05	< 10	< 10	34	< 10	42
BB29063	201	202	220	< 1	< 0.01	15	560	8	0.01	< 2	3	24	0.05	< 10	< 10	39	< 10	50
BB29064	201	202	605	< 1	< 0.01	12	560	6	0.02	< 2	3	24	0.03	< 10	< 10	44	< 10	44
BB29065	201	202	335	1	< 0.01	22	640	2	0.01	< 2	6	21	0.07	< 10	< 10	57	< 10	46
BB29066	201	202	235	1	< 0.01	15	360	2	< 0.01	< 2	4	16	0.07	< 10	< 10	45	< 10	54
BB29067	201	202	500	< 1	< 0.01	16	630	6	0.01	< 2	3	26	0.05	< 10	< 10	39	< 10	56
BB29068	201	202	175	1	0.01	19	580	8	0.07	< 2	4	38	0.06	< 10	< 10	43	< 10	60
BB29069	201	202	405	1	0.01	25	500	6	< 0.01	< 2	5	32	0.06	< 10	< 10	44	< 10	54
BB29070	201	202	120	< 1	< 0.01	13	390	2	< 0.01	< 2	3	22	0.04	< 10	< 10	31	< 10	38
BB29071	201	202	175	< 1	< 0.01	15	480	8	< 0.01	< 2	3	23	0.05	< 10	< 10	37	< 10	44
BB29072	201	202	300	1	< 0.01	13	440	6	< 0.01	< 2	2	22	0.03	< 10	< 10	34	< 10	42
BB29073	201	202	245	1	< 0.01	19	160	6	< 0.01	< 2	3	19	0.06	< 10	< 10	48	< 10	50
BB29082	201	202	495	< 1	0.01	25	510	8	< 0.01	< 2	4	32	0.06	< 10	< 10	46	< 10	60
BB29083	201	202	305	1	0.01	19	560	8	0.01	< 2	3	40	0.05	< 10	< 10	40	< 10	52

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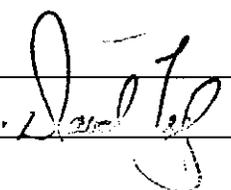
To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
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Project : EUREKA-EUREKA  
Comments:

Page Number : 1-A  
Total : 1  
Certificate Date: 12-JUL-1999  
Invoice No. : 19921556  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS A9921556

SAMPLE	PREP CODE		Au ppb	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 ppm	K %	La ppm	Mg %
	FA+AA																				
N112401	205	226	10	0.4	0.27	58	< 10	110	< 0.5	< 2	0.08	< 0.5	1	299	7	0.67	< 10	< 1	0.06	< 10	0.03
059947M	205	226	60	3.8	0.02	38	< 10	< 10	< 0.5	< 2	< 0.01	< 0.5	65	141	533	>15.00	< 10	< 1	< 0.01	< 10	< 0.01
059948M	205	226	65	8.0	0.03	26	< 10	100	< 0.5	6	< 0.01	0.5	1	305	565	0.90	< 10	3	< 0.01	< 10	< 0.01
059949M	205	226	< 5	1.0	0.41	356	< 10	580	< 0.5	< 2	0.04	0.5	1	192	30	1.39	< 10	2	0.06	10	0.01
059950M	205	226	< 5	0.2	0.09	54	< 10	260	< 0.5	< 2	0.01	< 0.5	2	444	8	0.77	< 10	3	0.01	< 10	0.01

CERTIFICATION: 



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Y1A 3S9

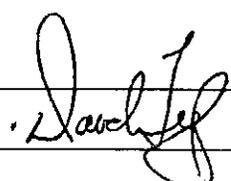
Project : EUREKA-EUREKA  
Comments:

Page Number : 1-B  
Total : 1  
Certificate Date: 12-JUL-1999  
Invoice No. : 19921556  
P.O. Number :  
Account : RDF

## CERTIFICATE OF ANALYSIS

### A9921556

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
N112401	205	226	50	14	< 0.01	8	10	14	0.05	8	< 1	13	< 0.01	< 10	< 10	3	< 10	4
059947M	205	226	25	11	< 0.01	4	40	14	>5.00	6	< 1	1	< 0.01	< 10	< 10	90	30	52
059948M	205	226	25	8	< 0.01	6	20	450	0.28	16	< 1	3	< 0.01	< 10	< 10	3	< 10	32
059949M	205	226	215	8	< 0.01	6	410	10	0.08	12	5	144	< 0.01	< 10	< 10	71	< 10	18
059950M	205	226	100	3	< 0.01	9	20	4	0.03	6	< 1	7	< 0.01	< 10	< 10	4	< 10	8

CERTIFICATION: 

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: M451873  
 Grid North: N Grid East: E Type: FLOAT Dimension: 12 x 10 x 10 cm  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: RUSTY QUARTZ VEIN FLOAT FROM CREZ BED  
 QUARTZ IS WHITE AND GLASSY WITH HAIRLINE SIDEWORK OF CLEAR QUARTZ AND MODERATE  
 ORANGE BROWN PITTING.

Sample Number: M451874  
 Grid North: N Grid East: E Type: FLOAT Dimension: 20 x 18 x 15 cm  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: RUSTY, DARK ORANGE-BROWN SURFACE WEATHERED GREY-WHITE  
 QUARTZ. MINOR MEDIUM TO COARSE LIMONITE BOX WORK AFTER PYRITE  
 TRACE MEDIUM GRAINED PYRITE CUBES AND ARSENOPYRITE.

Sample Number: M451875  
 Grid North: N Grid East: E Type: FLOAT Dimension: 55 x 35 x 25 cm  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: RUSTY SUB-ROUNDED QUARTZ VEIN POWDER WITH ABUNDANT CROSS  
 FRACTURES, MINOR QUARTZ BRECCIA NEAR MARGINS. MATRIX QUARTZ IS WHITE AND GLASSY.

Sample Number: M451876  
 Grid North: N Grid East: E Type: FLOAT Dimension: 20 x 18 x 12 cm  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: ANGULAR MILKY HARD WHITE QUARTZ VEIN FLOAT. ABUNDANT  
 IRREGULAR YELLOW STRIATED FRACTURES AND SURFACE PITTING. CLEAR QUARTZ HAS ABUNDANT  
 HAIRLINE SIDEWORK.

Sample Number: M451877  
 Grid North: N Grid East: E Type: FLOAT Dimension: 70 x 55 x 20 cm  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: ANGULAR WHITE, GLASSY QUARTZ VEIN WITH ABUNDANT RUSTY ORANGE-  
 BROWN LIMONITE SURFACE PITS. CORE REGION IS STRONGLY CROSS FRACTURED AND RUST STRIATED  
 WITH MINOR GALNA AND CHALCOPYRITE. MARGIN IS STRONGLY BRECCIATED WITH COARSE PITTING.

Sample Number: M451878  
 Grid North: N Grid East: E Type: FLOAT Dimension: 20 x 12 x 8  
 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: SUB-ROUNDED MODERATELY ORANGE-BROWN, CROSS FRACTURED WHITE  
 QUARTZ VEIN. FRACTURES ARE LIMONITIC AND SOME AREAS ARE VUGGY.

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: M451879  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 12x10x7cm  
 Abundance:

Comments: SUBANGULAR WHITE GLASSY QUARTZ VEIN. SURFACE IS MODERATELY RUSTY-ORANGE-BROWN AND HEAVILY PITTED PLUS STRONGLY CROSS FRACTURED. MANY FRACTURES ARE STAINED LIGHT ORANGE-BROWN AND ARE ALSO PITTED. LOTS OF VUGS IN QUARTZ WITH CARBONATE.

Sample Number: M451880  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 15x10x10  
 Abundance:

Comments: SUBANGULAR WHITE GLASSY QUARTZ VEIN. WEAKLY CROSS FRACTURED WITH MINOR RUSTY ORANGE STAINING. ENTIRE ROCK CONTAINS  $\pm 1\%$  FINE FLAKY SPECKS THROUGHOUT.

Sample Number: M451881  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 12x8x6cm  
 Abundance:

Comments: SUB ROUNDED MILKY WHITE QUARTZ VEIN. SURFACE CONTAINS RUSTY-ORANGE COARSE PITS AND MANGANESE BLACK FILM. ABUNDANT RUSTY-ORANGE CROSS FRACTURES. THE CORE CONTAINS  $\sim 2\%$  FINE DISSEMINATED PITS STAINED YELLOW TO ORANGE BROWN.

Sample Number: M451882  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 20x18x16cm  
 Abundance:

Comments: ANGULAR, RUSTY, CROSS FRACTURED WHITE GLASSY QUARTZ VEIN. ORANGE-BROWN OXIDE ON FRACTURES AND MODERATE COARSE SURFACE PITS. THE CORE PART OF THE SAMPLE HAS COARSE PITS PLUS BOXWORK.

Sample Number: M451883  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 25x22x20  
 Abundance:

Comments: SUB ROUNDED MILKY WHITE AND CLEAR QUARTZ VEIN FLOAT. MODERATELY RUSTY BROWN CROSS FRACTURES PLUS VUGS. THESE GALENA + Sphalerite blebs.

Sample Number: M451884  
 Grid North: N UTM: N  
 Grid East: E UTM: E  
 Type: FLOAT  
 Sample Width:  
 Dimension: 30x26x18cm  
 Abundance:

Comments: ANGULAR MILKY WHITE QUARTZ VEIN WITH MINOR PYRITE CUBES. MODERATE SURFACE PITTING, WEAKLY VUGGY AND CROSS FRACTURED.

## Rock Sample Descriptions

Project: EURBIA JV Property: EURBIA

Page 1 of 1

Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	25 x 20 x 18 cm		
M451885	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Angular, luggy, pale grey and pink mottled glassy vein quartz. Most vugs are large and irregular, coated with drusy quartz and orange brown oxide. Minor hairline fractures containing milky white quartz.								
Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	35 x 20 x 20 cm		
M451886	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Sub rounded pale grey and pink mottled quartz vein. Surface is moderately rusty brown to dark brown. Highly cross fractured with moderate rusty brown-orange filling.								
Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	20 x 15 x 12 cm		
M451887	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Sub rounded pink weathering, clear to white, glassy quartz veins. Weakly cross fractured with weak orange-brown staining. Moderate surface pits and vugs. Abundant rusty dark orange brown limonite boxwork in core of sample.								
Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	10 x 7 x 4 cm		
M451888	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Sub angular light orange brown weathering, creamy white, weakly foliated granite gneiss with foliaform clear quartz lenses (1-2mm thick). 1-5mm thick cross cutting clear glassy quartz stockwork. Fine to coarse disseminated cubic pyrite near stockwork selvage.								
Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	25 x 20 x 15 cm		
M451889	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Angular, milky white, glassy quartz vein. Abundant coarse vugs and weak honeycomb texture of medium to coarse pits stained pale yellow-green and lesser orange-brown to purple-brown.								
Sample Number:	Grid North:	N	Grid East:	E	Type: FLOAT	Dimension:	25 x 20 x 15 cm		
M451890	UTM:	N	UTM:	E	Sample Width:	Abundance:			
	Elevation:	m							
Comments:	Angular light brown weathering, pale blue-grey, weakly to moderately foliated silicious hornblende granitic gneiss. Contains ~5% coarse grained black hornblende and ~1% fine grained pyrrhotite occasionally filling thin fractures.								

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451891	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: Small angular cobble of white glassy quartz vein.  
Contains several cross fractures with orange-brown staining.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451892	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: small angular white glassy quartz vein. Very weak oxidation  
on cross fractures and minor vugs.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451893	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: Small cobble of clear glassy quartz with weak orange oxidation  
along fractures.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451894	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: Highly cross fractured angular clear glassy quartz vein. Moderately  
rusty deep brown-purple oxidation along fractures.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451895	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: Strongly oxidized cross fractured breccia.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:
M451896	UTM:	N	UTM:	E	Sample Width:	Abundance:
	Elevation:	m				

Comments: SEE figure

## Rock Sample Descriptions

Project: EURICA IV Property: EURICA

Page 1 of

Sample Number: M451897 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: SEE Figure

Sample Number: M451898 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: SEE Figure

Sample Number: M451899 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: SEE Figure

Sample Number: BB4986 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: 3-5 cm wide piece of clear, glossy quartz with pink feldspar within biotite-clonite schist. Contains minor coarse pyrite along margins.

Sample Number: BB4987 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FRONT Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: RANDOM CHIP sample taken from ~ 50 cm THICK angular white glassy quartz vein. Surface is moderately rusty orange-brown and boulder is strongly cross fractured with weak patchy orange staining.

Sample Number: BB4988 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FRONT Dimension: 40 x 30 x 30 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: WHITE-grey quartz boulder: ~ 90% grey glassy quartz with rusty orange-brown surface staining and moderately large vugs. Moderately cross fractured and oxidized.

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: N112480 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Small angular, heavily cross fractured, grey muscovite quartzite with rusty red-purple oxide coatings. Moderate fine pits and vugs also stained dull orange to red purple.

Sample Number: N112481 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Small angular, pale grey quartz pebble breccia. Matrix contains subrounded to rounded grey quartzite clasts cemented with quartzite rock flour? Clasts are 1-2mm in diameter. Abundant pits and cross fractures with orange staining.

Sample Number: N112482 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Thinly laminated micaceous quartzite with abundant cross fractures HEATED WITH light brown limonite cement and minor manganese.

Sample Number: N112483 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SAME AS ABOVE BUT orange limonite is foliaform.

Sample Number: N112484 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Several pieces of brecciated quartzite. Cement is white on outer RIND and orange near the core SPECIMEN IS NON-CALCREOUS AND BRECCIA FRAGMENTS ARE SUBANGULAR GREY QUARTZITE.

Sample Number: N112485 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SHATTERED quartz-muscovite schist containing 0.5-1.5 cm rusty quartz vein cutting core of sample. Core is strongly cross fractured and stained orange with moderate fine to medium pits

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: N112486 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: HEAVILY FRACTURED MICACEOUS QUARTZITE WITH STRONG ORANGE LIMONITE AND MANGANESE BANDING.

Sample Number: N112487 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20x15x15cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: DARK ORANGE-BROWN COMPACT LIMONITE BRECCIA. MODERATELY PITTED WITH MINOR REMNANT PYRITE PRESERVED NEAR THE CORES OF SOME SPECIMENS.

Sample Number: N112488 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: DEEP PARTLY BROWN WEATHERING MUSCOVITE SCHIST. SAMPLE IS CRUMBLY AND STRONGLY FRACTURED. CORE IS DULL GREY-BLACK.

Sample Number: N112489 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20x12x10cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: BLACK VITRIOUS COMPACT MANGANESE WITH MINOR PALE BROWN QUARTZ MUSCOVITE FRAGMENTS. MODERATELY VUGGY WITH LIMONITE RIMS

Sample Number: N112490 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: 4cm thick deeply oxidized rusty purple-orange quartz vein with abundant black vitrified manganese coatings. Abundant cross fractures with fine pitting and orange-brown staining.

Sample Number: N112491 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREY-BROWN-ORANGE FAULT BRECCIA. FRAGMENTS ARE ALL SUB-ROUNDED GREY QUARTZITE WITHIN GREY-ORANGE MATRIX.

## Rock Sample Descriptions

Project: Funika JV Property: LAKEICA

Page 1 of

Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112492</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>MILKY white to clear quartz vein breccia. Quartz clasts are cemented with orange-brown limonite. Moderate pits and vugs contained in limonite cement. Clasts range from 1-20mm in diameter and are angular.</u>								
Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112493</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>angular grey weathering muscovite quartzite, weakly foliated with strong stockwork of irregular white and clear quartz (1-2mm thick). Dull red-brown and yellow oxidation occurs along stockwork margins. Minor limonite in places.</u>								
Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112494</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>subrounded grey quartzite breccia with orange-brown limonitic matrix.</u>								
Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112495</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>Dull orange-brown quartz fault breccia. Fresh surface has clear to white angular quartz clasts (2-5mm) in weakly limonitic matrix.</u>								
Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112496</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>Shattered clear glassy quartz vein with abundant medium to coarse pits and vugs lined with orange-brown-yellow limonite.</u>								
Sample Number:	Grid North:	N	Grid East:	E	Type: <u>Float</u>	Dimension:	_____	_____	_____
<u>N112497</u>	UTM:	N	UTM:	E	Sample Width:	Abundance:	_____	_____	_____
	Elevation:	m							
Comments:	<u>Dull brown quartz vein and quartzite breccia. Angular 0.2-2mm clasts of white to clear, glassy quartz and grey quartzite set in a fine matrix of mixed orange-brown and yellow limonite.</u>								

Rock Sample Descriptions

Project: GENEVA JV Property: EUROKA

Sample Number: N112498 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: grey angular quartzite breccia in dull grey pitted matrix  
containing fine to coarse limonite.

Sample Number: N112499 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Rusty red-brown and orange-brown grey muscovite quartzite  
breccia. contains angular pebble-sized quartzite clasts in deep red-brown limonite  
matrix with fine pits and box work throughout.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: Grid North: N Grid East: E Type: FLAT Dimension: 25x25x20cm  
 059947 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: WHITE CLEAR QUARTZ VEIN WITH AGGREGATES OF COARSE PYRITE. SOME SURFACES ARE TARNISHED DULL BLACK AND SOME PATCHES OF QUARTZ ARE GREY.

Sample Number: Grid North: N Grid East: E Type: FLAT Dimension: 15x15x12cm  
 059948 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: WHITE-YELLOW-CLEAR QUARTZ VEIN WITH GREY PATCHY CHALCEDONIC QUARTZ. DRUSY AND VUGGY TEXTURE WITH FLECKS OF PYRITE AND ARSENOPYRITE.

Sample Number: Grid North: N Grid East: E Type: FLAT Dimension: 10x10x8cm  
 059949 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: QUARTZ BRECCIA. MATRIX IS TAN SILICA WITH LARGE GREY AND BLACK ANGULAR QUARTZ FRAGMENTS. SOME BLACK BLEBS ARE OXIDIZED SULPHIDE. OTHER PARTS OF THE MATRIX ARE STRONGLY PITTED AND YELLOW STAINED.

Sample Number: Grid North: N Grid East: E Type: FLAT Dimension: 15x15x12cm  
 059950 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: CREAM AND PATE GREY CHALCEDONIC QUARTZ WITH MINOR VUGS. WEAR AUTOKLASTIC BRECCIA NEAR MARGINS.

Sample Number: Grid North: N Grid East: E Type: FLAT Dimension: 5x5x3cm  
 N112401 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: CLEAR WHITE QUARTZ VEIN. MODERATELY FRACTURED WITH BRIGHT RED MINERAL ALONG FRACTURES (hematite)?

Sample Number: Grid North: N Grid East: E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: N UTM: E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: EURGLA JV Property: EURGLA

Page 1 of

Sample Number: BB06384 - Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: SEE FIGURE

Sample Number: M451841 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: 40 x 30 x 30 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: GLASSY MILKY WHITE BOUNDED QUARTZ BOULDER. STRONGLY  
 FRACTURED BUT VERY LITTLE VULS OR PITS. MINOR OXIDATION ALONG FRACTURES PLUS TRACE  
 MANGANESE AND ARSENOPYRITE (?).

Sample Number: M451842 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: 10x5x5 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: COBBLE OF RUSTY WEATHERING QUARTZ / LIMONITE BRECCIA.  
 LIMONITE MAKES UP ~70% OF MATRIX AND IS RED-ORANGE-YELLOW AND COMPACT.  
 NO VISIBLE SULPHIDE.

Sample Number: M451843 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: 7x4x4 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: WHITE CLEAR QUARTZ VEIN. MODERATELY OXIDIZED ON FRACTURES  
 AND NO PITTING. MODERATE MANGANESE STAINING AND IRREGULAR PATCHES OF CLEAR RED QUARTZ  
 IN CENTRE OF SAMPLE.

Sample Number: M451844 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: ANGULAR GLASSY QUARTZ VEIN WITH MICACEOUS PARTINGS AND  
 DISSEMINATED PYRITE ALONG LAMINAE.

Sample Number: M451845 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: 30x30x20 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: MILKY WHITE STRONGLY CROSS FRACTURED QUARTZ VEIN. NARROW ZONES  
 OF OXIDATION ALONG FRACTURE SELVAGE. SURFACE IS WEAKLY PITTED.

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: M451846 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 40x30x25  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Strongly cross fractured quartz breccia boulder. Purple-orange oxidation throughout.

Sample Number: M451847 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 40x30x25cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: MILKY WHITE QUARTZ VEIN WITH WEAK TO MODERATE OXIDATION along FRACTURES. FRESH SURFACE SHOWS PATCHES OF COARSE CUBIC PYRITE PLUS TRACE ARSENOPYRITE MODERATELY ABUNDANT MUSCOVITE IN MATRIX plus blue clay.

Sample Number: M451848 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 15x15x15cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: MILKY WHITE QUARTZ VEIN WITH ABUNDANT CROSS FRACTURES, PITS AND VUGS.

Sample Number: M451849 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 18x15x15cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: EXTREMELY CROSS FRACTURED AND OXIDIZED WHITE GLASSY QUARTZ VEIN.

Sample Number: M451850 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 10x7x7cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: ROUNDED QUARTZ FELDSPAR Porphyry Float. Yellow-green clay alteration throughout and narrow stringers of pyrite.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: <u>BB29011</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: <u>17x15x15cm</u>	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>EXTREMELY OXIDIZED DARK GREY QUARTZ BRECCIA FLOAT WITH DARK RED LIMONITE FRACTURES.</u>								
Sample Number: <u>BB29012</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: <u>20x15x15cm</u>	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>CLEAR QUARTZ VEIN WITH MODERATELY OXIDIZED FRACTURES. ABUNDANT FINE GRAINED BLACK FLOCKS.</u>								
Sample Number: <u>BB29017</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: _____	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>SUCROSE GRITTY QUARTZITE WITH NARROW WHITE QUARTZ VEINS CROSS CUTTING. MINERALIZED WITH 2-5% CUBIC PYRITE THROUGHOUT AND TRACE ARSENOPYRITE.</u>								
Sample Number: <u>BB29020</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: <u>200x200x100u</u>	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>TAN MOTTLED QUARTZ BRECCIA SLAB. WHITE QUARTZ FRAGMENTS IN TAN SILICA MATRIX. MODERATELY UBBY BUT NO SULPHIDES SEEN.</u>								
Sample Number: <u>BB29024</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: <u>20x20x20u</u>	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>PURE GREEN DIOPSIDE SLAB WITH MINOR RED GARNET AND BIORITE IN MATRIX. YELLOW-BROWN OXIDATION ON SURFACE AND MINERALIZED WITH MINOR PATCHY PYRITE, CHALCOPYRITE AND GALENA.</u>								
Sample Number: <u>BB29025</u>	Grid North: _____	N	Grid East: _____	E	Type: <u>Float</u>	Dimension: <u>40x30x30u</u>	_____	_____	_____
	UTM: _____	N	UTM: _____	E	Sample Width: _____	Abundance: _____	_____	_____	_____
	Elevation: _____	m					_____	_____	_____
Comments:	<u>SUB-ROUNDED GLASSY WHITE QUARTZ VEIN. WEAKLY OXIDIZED ALONG FRACTURES AND CONTAINS PATCHES OF COARSE CUBIC PYRITE.</u>								

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: Grid North: N Grid East: E Type: FLOAT Dimension: 15x8x8cm  
 UTM: N UTM: E Sample Width: Abundance:

BB29027

Elevation: m

Comments: clear glassy red quartz vein with black flecks throughout matrix.

Sample Number: Grid North: N Grid East: E Type: Dimension: 40x30x30cm  
 UTM: N UTM: E Sample Width: Abundance:

BB29028

Elevation: m

Comments: Rusty weathering QUARTZ BRECCIA. MATRIX IS DOMINANTLY WHITE AND CLEAR QUARTZ WITH DARK GREY QUARTZ FRAGMENTS. STRONGLY CROSS FRACTURED. MINERALIZED WITH FINE GRAINED CUBIC PYRITE AND MINOR CHALCOPYRITE.

Sample Number: Grid North: N Grid East: E Type: FLOAT Dimension: 8x6x5cm  
 UTM: N UTM: E Sample Width: Abundance:

BB29029

Elevation: m

Comments: YELLOW STAINED CLAY ALTERED QUARTZ FELDSPAR PORPHYRY WITH FINE GRAINED PYRITE STRINGS.

Sample Number: Grid North: N Grid East: E Type: BEDROCK Dimension:  
 UTM: N UTM: E Sample Width: 10cm Abundance:

BB29050

Elevation: m

Comments: MASSIVE FINE AND COARSE GRAINED PYRITE PLUS CRUSHED WHITE QUARTZ STOCKWORK WITHIN STRONGLY CLAY ALTERED GRANITE GNEISS.

Sample Number: Grid North: N Grid East: E Type: FLOAT Dimension: 20x15x15cm  
 UTM: N UTM: E Sample Width: Abundance:

BB29030

Elevation: m

Comments: QUARTZ FELDSPAR BRECCIA WITH MODERATE YELLOW SURFACE WEATHERING. GREY ON FRESH SURFACE. CLEAR QUARTZ FRAGMENTS IN CLAY ALTERED FELDSPAR MATRIX MINERALIZED WITH 3-5% CUBIC PYRITE.

Sample Number: Grid North: N Grid East: E Type: FLOAT Dimension: 20x20x20  
 UTM: N UTM: E Sample Width: Abundance:

BB29031

Elevation: m

Comments: glassy and grey angular quartz vein mineralized with 1% galena and minor pyrite plus chalcopyrite.

## Rock Sample Descriptions

Project: Gunka JV Property: BULLA

Page 1 of

Sample Number: BB29032 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 35x30x30cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Angular clear and white quartz veins with bands of dark grey quartz. Grey bands are mineralized with up to 10% fine grained pyrite plus lesser galena and chalcopyrite.

Sample Number: BB29034 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 15x15x15cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Clear white quartz vein with abundant dark grey quartz bands. Trace pyrite in grey bands.

Sample Number: BB29035 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 40cm Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Orange weathering gouge shear zone with abundant crushed white quartz veinlets.

Sample Number: BB29042 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 10x10x8cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Grey-blue clay altered fault breccia. Shear plane clearly seen on one edge. Quartz, quartzite and schist fragments throughout matrix.

Sample Number: BB29043 - BB29049 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock / chip Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SEE FIGURE

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: EUREKA JV Property: EUREKA

Page 1 of

Sample Number: M059955 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 25x20x20 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Rusty weathering glassy quartz veins with moderate pits and vugs. Vugs range in color from orange to yellow to white-pink.

Sample Number: M059956 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Grey quartzite breccia with minor limonite healed matrix.

Sample Number: M059957 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20x15x10 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Grey matrix with angular white quartz fragments and abundant orange limonitic pits. Narrow stringers of dark grey infilling.

Sample Number: M059958 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20x20x12  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Well laminated quartzite with dislodged limonite bands. Limonite is dark brown-orange and compact. Minor manganese staining.

Sample Number: M059959 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 25x25x20 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Well rounded rusty weathering white quartz crackle breccia healed with orange limonite cement.

Sample Number: M059960 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Strongly cross fractured grey quartzite. Minor brecciation with yellow-brown limonite cement.

## Rock Sample Descriptions

Project: EUREKA IV Property: GUINZA

Page 1 of

Sample Number: M058181 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREY PEBBLE QUARTZITE BRECCIA WITH NARROW SILICA BAND  
CROSS CUTTING central part of SAMPLE. MINOR OXIDE IN MATRIX.

Sample Number: M058182 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREY-WHITE PEBBLE BRECCIA. QUARTZITE FRAGMENTS IN  
QUARTZITE ROCK FLOUR MATRIX.

Sample Number: M058183 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREY PEBBLE BRECCIA WITH CREAM COLORED to yellow stained  
MATRIX AND grey angular QUARTZITE CLASTS.

Sample Number: M058184 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SAME AS ABOVE.

Sample Number: M058185 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: QUARTZITE BRECCIA. Fragments very angular clear and white.  
5-8% Mnomic veins and oxidized fractures.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: UNCEA JV Property: ARMINIUS

Page 1 of

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29074 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: Strongly clay altered quartz-muscovite schist with minor sericite.  
Abundant clear quartz veinlets and laminae.

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29075 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: Red crumbly quartz-muscovite schist, strong oxidation along  
foliation rendering sample very friable.

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29076 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: DARK GREEN Friable chlorite schist with abundant clear  
quartz laminae and fragments.

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29077 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: DENSE WHITE sugary clay with abundant muscovite and clear  
quartz fragments.

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29078 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: DENSE grey-blue clay gouge, EXTREMELY STICKY and NO quartz  
fragments.

Sample Number: Grid North: N Grid East: E Type: PLACER PIT SHEAR Dimension: -  
 BB29079 UTM: N UTM: E Sample Width: Abundance:  
 Elevation: m

Comments: Red-orange clay altered gritty muscovite quartzite with thin clear  
glassy quartz laminae.

## Rock Sample Descriptions

Project: EUREKA JV Property: ARMENIUS

Page 1 of

Sample Number: BB29084 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: PLACE PIT ~~STAY~~ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: Yellow-tan clay altered quartz - muscovite schist with abundant clear quartz laminae and fragments.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m \_\_\_\_\_  
 Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: BUCKA JV Property: ADONIUS

Page 1 of

Sample Number: BB29057 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLOAT Dimension: 40x35x22cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: Angular white-clear quartz veins with weak muscovite partings  
AND minor oxidized cross fractures. minor black flecks in matrix.

Sample Number: BB29058 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLOAT Dimension: 10x10x8cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: ORANGE WEATHERING LIMONITIC QUARTZ BRECCIA.

Sample Number: BB29080 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLOAT Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: BLEACHED WHITE QUARTZITE FRAGMENTS WITH ABUNDANT clear  
quartz laminae. STRONGLY PITTED AND ABUNDANT BLACK FLECKS THROUGHOUT.

Sample Number: BB29085 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: CHP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: BLEACHED CLAY ALTERED QUARTZITE WITH TINY BLACK FLECKS  
THROUGHOUT MATRIX.

Sample Number: BB29086 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: strongly altered granite gneiss with abundant clear white quartz  
veinlets and lenses. minor epidote developed along foliation planes. Non-oxidized  
with 1% fine grained pyrite.

Sample Number: BB29087 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SAME AS ABOVE

## Rock Sample Descriptions

Project: EUREKA JV Property: MORNIUS

Page 1 of

Sample Number: BB29088 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 20cm Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: CHLORITE EPIDOTE vein WITH CRUSTED CLEAR WHITE QUARTZ FRAGMENTS.

Sample Number: BB29089 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Strongly clay altered granite gneiss with trace pyrite and moderate clear quartz stockwork.

Sample Number: BB29090 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: BLUE-BLACK STICKY CLAY SLTAR WITH NARROW intervals of dark green clay.

Sample Number: BB29091 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.0m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Orange-yellow ± grey sltar with crushed angular white quartz fragments.

Sample Number: BB29092 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.2m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: WHITE-GREY SLTAR WITH ABUNDANT grey quartz laminae. Strongly pitted.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: Eureka IV Property: Adrianus

Page 1 of

Sample Number: M059961 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock / pseudo Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 14.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: MODERATE TO STRONGLY CITRINIZED QUARTZ - MUSCOVITE - FELDSPAR  
SCHIST WITH INTERMITTANT GONGY SECTIONS, CLEAR QUARTZ LENSES AND LAMINAE ARE ABUNDANT.

Sample Number: M059962 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock / pseudo Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 11.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: RED-ORANGE WEATHERING QUARTZ - MUSCOVITE SCHIST WITH ABUNDANT  
TITIN CLEAR QUARTZ LAMINAE. MINOR BLEACHED GONGY SECTIONS

Sample Number: M059963 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock / pseudo Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 18.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: MODERATELY TO STRONGLY CITRINIZED AND OXIDIZED QUARTZ - MUSCOVITE  
FELDSPAR SCHIST WITH ABUNDANT CLEAR QUARTZ LENSES

Sample Number: M059964 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock / pseudo Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 25.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: CITRINIZED FELDSPAR-QUARTZ - MUSCOVITE SCHIST WITH ABUNDANT CLEAR  
QUARTZ LENSES.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

## Rock Sample Descriptions

Project: EUREKA JV Property: ARMENIUS

Page 1 of

Sample Number: BB29103 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK/CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.8m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREEN-GREY TO ORANGE-BROWN MIXED CLAY BOUGE WITH MINOR QUARTZ - CHLORITE SCHIST FRAGMENTS

Sample Number: BB29104 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK/CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.5m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREEN to orange to brown weathering Quartz chlorite schist and chlorite-biotite schist. Highly fractured with minor clear quartz filling.

Sample Number: BB29105 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Bedrock/CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.7m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: GREEN-GREY TO YELLOW-WHITE CLAY BOUGE WITH QUARTZITE AND SCHIST FRAGMENTS.

Sample Number: BB29109 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: BEDROCK/CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.6m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: ORANGE-BROWN CLAY BOUGE WITH ROTTEN QUARTZ-SERICITE-CHLORITE SCHIST FRAGMENTS.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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Telephone: (867) 667-4415

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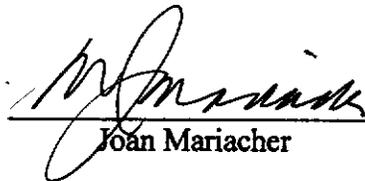
**AFFIDAVIT**

I, Joan Mariacher, of VANCOUVER, B.C. make oath and say:

That to the best of my knowledge the attached Statement of

Expenditures for exploration work on the ARMENIUS 1-16, 89-136, 153-156 &  
EVREKA 1-187, 189-202  
mineral claims on Claim Sheet 1150/10 is accurate.

094107

  
Joan Mariacher

Sworn before me at VANCOUVER, B.C.

this 26TH day of

JANUARY, 2000



Notary, Yukon Territory

**ARMENIUS 1-16, 89-136, 153 - 156 AND EUREKA CLAIMS 1-182, 189-202**  
**Statement of Expenditures**  
**January 25, 2000**

Labour

A. Archer, geologist - April to December - 30 hrs @ \$66/hr .....	\$ 2,118.60
R. Carne, geologist - April to December - 10½ hrs @ \$56/hr .....	629.16
W. Eaton, geologist - April to January 2000 - 96¾ hrs @ \$56/hr .....	5,797.26
T. Becker, geologist - April to December - 26 5/8 hrs @ \$43/hr .....	1,225.02
B. Wengzynowski - geologist - April to January 2000	
- 344 7/8 hrs @ 43/hr .....	15,867.70
B. Gay, geologist - April to October - 27¾ days @ \$247.50/day .....	7,348.89
J. Mariacher - April to January 2000 - 8½ hrs @ \$41.67/hr .....	378.99
and 74¼ @ \$46.67/hr .....	3,707.81
M. Cooke - April to January 2000 - 23½ hrs @ \$36.70/hr .....	922.82
Pamicon Developments Ltd .....	<u>4,232.22</u>
	\$42,228.47

Expenses

Field room and board - 54½ days @ \$115/day .....	\$ 6,706.23
Chemex Labs .....	11,100.29
Truck rental - Norcan, gas, etc .....	2,932.52
Freight .....	285.74
Drafting and printing .....	<u>2,266.46</u>
	\$23,291.24
<b>TOTAL</b>	<u><b>\$65,519.71</b></u>

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project EUREKA JOINT VENTURE  
Date APRIL - MAY 31, 1999

LABOUR				
Field	A. ARCHER - 4 HRS AT 66/HR		264.00	
	B. CARNE - 10 HRS AT 56/HR	APRIL	560.00	
	- 2 HRS AT 56/HR	MAY	112.00	
	D. EATON - 4 HRS AT 56/HR	MAY	224.00	
	T. BECKER - 23 HRS AT 43/HR	APRIL	989.00	
	- 6 HRS AT 43/HR MISSED IN APRIL		258.00	
	B. WENBYNOWSKI - 40 HRS AT 43/HR	MAY	1700.00	
	B. COY - 2 3/4 DAYS AT 247.50/DAY	MAY	680.63	
Office	M. COOKE - 7 1/2 HRS AT 36.70/HR	APRIL	275.25	
Accounting and Expediting	J. MARIACKER - 2 1/4 HRS AT 41.67/HR	APRIL	93.76	
	- 2 1/4 HRS AT 41.67/HR	MAY	93.76	5270.40
<b>OTHER SERVICES</b>				
Room & Board in Whitehorse	1 1/2 DAYS AT 60/DAY		90.00	
Field equipment from AC stock	3 DAYS AT 20/DAY + 443.53 + 7.00 + 24.00	APRIL	534.73	
Printing	147.25	Photocopies 295 APRIL + 41 MAY - 2360.10	226.35	
Rentals from AC	MAY 30 - 1/4 31 - 15 BX 11 AT 10/DAY + 2 1 COM HAND FEELS AT 30/DAY			
	RACA + 1 GPS AT 7.67/DAY		36.50	
Drafting	1 1/2 hrs at \$36 /hr.	APRIL	54.00	941.58
<b>EXPENSES</b>				
Petty Cash	5.55 + 73.34	APRIL	78.87	
Telephone	EXPENSES		5.83	
	BILL W. EXPENSES - 22.40 + 72.90		95.30	
	ATLAS TRAVEL - 33.75 + 31.70		65.45	
	BEAVER LUMBER		46.77	
	SECOND AVENUE SHELL	APRIL	13.09	
	REC GEN - CL MAPS		3.00	
	NORDAN LEASING		103.22	
	CALL		31.65	
	MAC'S FIREWEED		46.25	
	HORWOOD'S OFFICE		8.28	
	HOUKIN'S PHOTO		9.89	521.60
MANAGEMENT	6% - ON EXPENSES	APRIL	31.30	
	- ON FIELD ATC			31.30
GST (R100247687)	7% ON 6764.88			473.54
E=GST exempt				7238.42



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EUREKA JOINT VENTURE

Date

JULY 31, 1999

<b>LABOUR</b>			
Field	A. ARCHER - 5 HR AT 66/HR	330.00	
Office	M. COOKE - 4 1/4 HR AT 36.70/HR	165.15	
Accounting and Expediting	J. MARIACHER - 13 1/4 HR AT 46.67/HR	618.38	1113.53
<b>OTHER SERVICES</b>			
Room & Board in Whitehorse			
Field equipment from AC stock			
Printing	Photocopies 20 @ .25	5.00	
Rentals from AC			
Drafting	hrs at \$ /hr.		5.00
<b>EXPENSES</b>			
Petty Cash			
Telephone	286	2.86	
INT TRANSPORTATION		61.02	
MACH FIREWEED		26.05	89.93
MANAGEMENT	6% - ON EXPENSES - ON FIELD AC	5.40 359.62	365.02 1573.48
GST (R100247667)	7% ON 1573.48		110.14
E=GST exempt			1683.62

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project  
Date

EUREKA JOINT VENTURE  
AUGUST 31, 1999

LABOUR			
Field	D. EATON - 13 HRS AT 56/HR	728.00	
Office			
Accounting and Expediting	J. MARIACHEL - 3 1/4 HRS AT 46.67/HR	151.68	879.68
<b>OTHER SERVICES</b>			
Room & Board in Whitehorse			
Field equipment from AC stock			
Printing	Photocopies 5 AT .25	1.25	
Rentals from AC			
Drafting	hrs at \$ /hr.		1.25
			880.93
<b>EXPENSES</b>			
Petty Cash			
Telephone			
<b>MANAGEMENT</b>			
	6% - ON EXPENSES		
	- ON FIELD A/C		
GST (R100247667)	7% ON 880.93		61.67

E-GST exempt

942.60

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project EUREKA JOINT VENTURE  
Date SEPTEMBER 30, 1999

LABOUR			
Field	A. ARCHER - 7 HR AT 66/HR	462.00	
	D. EATON - 33 HR AT 56/HR	1848.00	
	B. WENGLYNSKI - 84 HR AT 43/HR	3612.00	
	B. GAY - 10 DAYS AT 247.50/DAY	2475.00	
Office	M. COOKE - 1/4 HR AT 36.70/HR	18.25	
Accounting and Expediting	J. MARIACHER - 17 3/4 HR AT 46.67/HR	828.39	9240.74
<b>OTHER SERVICES</b>			
	Room & Board in Whitehorse 5 DAYS AT 60/DAY	300.00	
	Field equipment from AC stock 6.75 + 564.80 + PER DIEM	1171.55	
	Printing Photocopies 77 @ .75	19.75	
	Rentals from AC SEPT 21-30 - 5 BY 11 AT 10/DAY + 3 1600S AT 10/DAY TOTAL + 2 60S AT 11.33/DAY TOTAL	353.30	
Drafting	hrs at \$ /hr.		1844.14
<b>EXPENSES</b>			
	Petty Cash 9.50 B	9.50	
	Telephone 0.91	0.91	
	D. EATON EXPENSES - 170.00 BY + 184.11 BY	352.11	
	B. WENG EXPENSES - 100.10 BY + 164.05 BY	264.15	
	MAZ'S FIREWEED	31.84	
	NORDAN LEASING	1099.54	
	SECOND AVENUE SHELL	48.04	
	DAWSON CITY GENERAL STORE	155.18	1929.27
MANAGEMENT	6% - ON EXPENSES - ON FIELD P/L	117.56 20.91	138.47 13185.58
GST (R100247667)	7% ON 13185.58		922.99

E-GST exempt

14108.57

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EUREKA JOINT VENTURE

Date

OCTOBER 31, 1999

LABOUR			
Field	A. ARCHER - 10 HR AT 66/HR	660.00	
	D. EATON - 15 HR AT 56/HR	840.00	
	B. WENGZYNOWSKI - 66 1/2 HR AT 43/HR (AAM-344)	2859.50	
	B. GARY - 3 1/2 DAYS AT 247.50/DAY	866.25	
Office	M. Cooke - 2 HR AT 36.70/HR	73.40	
Accounting and Expediting	J. Mariacher - 22 1/4 HR AT 46.67/HR	1038.41	6337.56
<b>OTHER SERVICES</b>			
	Room & Board in Whitehorse 5 days at \$60/day	300.00	
	Field equipment from AC stock 8 DAYS AT 30/DAY	240.00	
	Printing Photocopies @ .25 183	45.75	
	Rentals from AC OCT 1-5 - 56 1/2 AT 10/DAY + 5 1/2 COM AT 10/DAY TOTAL 2 GRS AT 15.33/DAY TOTAL	176.65	
Drafting	hrs at \$36/hr		767.40
<b>EXPENSES</b>			
	Petty Cash 11.5501 + 9.5003	21.05	
	Telephone 4.96	4.96	
	SUNRISE SERVICE	30.75	
	CAIL - 53.55 + 25.75	79.30	
	REC GEN - CL MARS	4.00	
	PNT TRANSPORTATION	19.54	
	NORCAN LEASING	280.00	
	CORPORATE EXPRESS	13.98	453.58
MANAGEMENT	6% on EXPENSES on FIELD A/C	27.21 345.47	372.63 7926.17
GST (R100247667)	7% on 7926.17		554.83
E-GST exempt			8481.00

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EUREKA JOINT VENTURE

Date

NOVEMBER 30, 1999

LABOUR				
Field	A. ARCHER - 7 HRS AT 66/HR		462.00	
	R. CARNE - 2 HRS AT 56/HR		112.00	
	D. EATON - 8 HRS AT 56/HR		448.00	
	B. WENZLYNOWSKI - 64 HRS AT 43/HR (ARGENTINA/EUREKA)		2752.00	
Office	M. Cooke - 6 HRS at <sup>70</sup> \$36.90/hr		220.20	
Accounting and Expediting	J. Mariacher - 3 1/2 HRS at \$41.67/hr		145.85	4140.05
<b>OTHER SERVICES</b>				
Room & Board in Whitehorse	days at \$60/day			
Field equipment from AC stock				
Printing	105.30	Photocopies	30 @ .25 = 7.50	112.80
Rentals from AC				
Drafting	2 1/2 HRS at \$36/hr		77.40	
Loomis Courier	1 US AT 33/EA		33.00	919.80
<b>EXPENSES</b>				
Petty Cash				
Telephone				
SINKER SERVICE			69.27	
PNT TRANSPORTATION			35.73	105.00
MANAGEMENT	6% on Expenses on Field A/C		6.30	30.24
			23.94	5195.09
GST (R100247667)	7% on 5195.09			363.66
E=GST exempt				5558.75



# PAMICON DEVELOPMENTS LIMITED

PAMICON DEVELOPMENTS LIMITED  
#611 - 675 WEST HASTINGS ST., VANCOUVER, B.C.  
CANADA V6B 1N2  
TELEPHONE: (604) 684-5901  
FAX: (604) 684-0279

## INVOICE

TO: NEWMONT EXPLORATIONS LIMITED  
One Norwest Center  
1700 Lincoln Street  
Denver, Colorado 80203

DATE: July 31, 1999  
AMOUNT: \$4,232.22  
INVOICE NO.: 2844

RE: Yukon General - AC  
July 1st - 31st

### WAGES

M. Stammers	2.50	Days @	275.00	\$687.50	
J. Tindel	2.00	Days @	275.00	\$550.00	
E. Sinnott	2.00	Days @	275.00	<u>\$550.00</u>	
					\$1,787.50

### EXPENSES

#### DIRECT CHARGES

Misc. Travel					
M. Stammers Expenses - Field Program			\$2,100.21		
Truck Repair			<u>\$122.26</u>		
					\$2,222.47

### CONSULTING FEES

Direct Charges			<u>\$222.25</u>		
					<u>\$222.25</u>

### TOTAL INVOICE

\$4,232.22

GST REGISTRATION NUMBER: R104056957



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER**

**I 9 9 2 1 5 5 6**

## BILLING INFORMATION

Date: 12-JUL-1999  
Project: EUREKA-EUREKA ✕  
P.O. No.:  
Account: RDF

### Comments:

Billing: For analysis performed on  
Certificate A9921556

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	205 - Geochem ring to approx 150 mesh ICP-32 0-3 Kg crush and split	2.60 7.40 2.60		
	983 - Au ppb FA+AA	10.25	22.85	114.25
Total Cost \$				114.25
Client Discount ( 25%) \$				-28.56
Net Cost \$				85.69
(Reg# R100938885 ) GST \$				6.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>91.69</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHERO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

INVOICE NUMBER

I 9 9 2 1 7 1 8

## BILLING INFORMATION

Date: 13-JUL-1999  
Project: EUREKA-EUREKA X  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9921718

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
103	201 - Dry, sieve to -80 mesh	1.35		
	202 - save reject	0.90		
	ICP-32	7.40		
	983 - Au ppb FA+AA	10.25	19.90	2049.70
				Total Cost \$ 2049.70
				Client Discount ( 25%) \$ -512.43
				Net Cost \$ 1537.27
				(Reg# R100938885 ) GST \$ 107.61
				<b>TOTAL PAYABLE (CDN) \$ 1644.88</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER** **I 9 9 2 1 7 1 9**

### BILLING INFORMATION

Date: 19-JUL-1999  
Project: EUREKA-EUREKA ✓  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9921719

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
85	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	494 - Au g/t FA+AA	10.25	22.85	1942.25
1	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	494 - Au g/t FA+AA	10.25		
	997 - Au FA g/t	12.30	35.15	35.15

Total Cost \$	1977.40
Client Discount ( 25%) \$	-494.35
Net Cost \$	1483.05
(Reg# R100938885 ) GST \$	103.81
<b>TOTAL PAYABLE (CDN) \$</b>	<b>1586.86</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER**

**I 9 9 2 7 0 7 6**

## BILLING INFORMATION

Date: 03-SEP-1999  
Project: EUREKA (A)  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9927076

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 ICP-32 0-3 Kg crush and split	2.60 7.40 2.60		
	983 - Au ppb FA+AA	10.25	22.85	68.55

Total Cost \$	68.55
Client Discount ( 25%) \$	<u>-17.14</u>
Net Cost \$	51.41
(Reg# R100938885 ) GST \$	<u>3.60</u>
<b>TOTAL PAYABLE (CDN) \$</b>	<b>55.01</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER** **I 9 9 3 1 0 9 1**

BILLING INFORMATION	
Date:	27-OCT-1999
Project:	EUREKA-EUREKA ✕
P.O. No.:	
Account:	RDF
Comments:	
Billing:	For analysis performed on Certificate A9931091
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
	<b>CHEMEX LABS LTD.</b> 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
83	201 - Dry, sieve to -80 mesh	1.35		
	202 - save reject	0.90		
	ICP-32	7.40		
	983 - Au ppb FA+AA	10.25	19.90	1651.70
				Total Cost \$ 1651.70
				Client Discount ( 25%) \$ -412.93
				Net Cost \$ 1238.77
				(Reg# R100938885 ) GST \$ 86.71
				<b>TOTAL PAYABLE (CDN) \$ 1325.48</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER**

**I 9 9 3 1 0 9 2**

## BILLING INFORMATION

Date: 27-OCT-1999  
Project: EUREKA-EUREKA ↙  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9931092

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
216	201 - Dry, sieve to -80 mesh	1.35		
	202 - save reject	0.90		
	ICP-32	7.40		
	983 - Au ppb FA+AA	10.25	19.90	4298.40
Total Cost \$				4298.40
Client Discount ( 25%) \$				-1074.60
Net Cost \$				3223.80
(Reg# R100938885 ) GST \$				225.67
<b>TOTAL PAYABLE (CDN) \$</b>				<b>3449.47</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER** **I 9 9 3 1 0 9 3**

### BILLING INFORMATION

Date: 22-OCT-1999  
Project: EUREKA-EUREKA ✓  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9931093

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
4	205 - Geochem ring to approx 150 mesh ICP-32 Gold metallics 0-3 Kg crush and split	2.60 7.40 27.50 2.60	40.10	160.40
Total Cost \$				160.40
Client Discount ( 25%) \$				<u>-40.10</u>
Net Cost \$				120.30
(Reg# R100938885 ) GST \$				<u>8.42</u>
<b>TOTAL PAYABLE (CDN) \$</b>				<b>128.72</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER**

**I 9 9 3 1 0 9 4**

## BILLING INFORMATION

Date: 26-OCT-1999  
Project: EUREKA-EUREKA ↙  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9931094

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
37	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	983 - Au ppb FA+AA	10.25	22.85	845.45
1	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	983 - Au ppb FA+AA	10.25		
	997 - Au FA g/t	12.30	35.15	35.15

Total Cost \$	880.60
Client Discount ( 25%) \$	<u>-220.15</u>
Net Cost \$	660.45
(Reg# R100938885 ) GST \$	<u>46.23</u>
<b>TOTAL PAYABLE (CDN) \$</b>	<b>706.68</b>



# Chemex Labs Ltd.

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

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

**INVOICE NUMBER** I 9 9 3 2 6 2 4

**BILLING INFORMATION**

Date: 10-NOV-1999  
 Project: EUREKA  
 P.O. No.:  
 Account: RDF

Comments:

Billing: For analysis performed on  
 Certificate A9932624

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	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	983 - Au ppb FA+AA	10.25	22.85	114.25
Total Cost \$				114.25
Client Discount ( 25%) \$				-28.56
Net Cost \$				85.69
(Reg# R100938885 ) GST \$				6.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>91.69</b>



# Chemex Labs, Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
994 Glendale Ave., Unit 7,  
Sparks, NV, U.S.A. 89431-5730  
PHONE: 775-356-5395  
FAX: 775-355-0179

To: NEWMONT METALLURGICAL SERVICES

10101 E DRY CREEK RD.  
ENGLEWOOD, COLORADO  
80112

INVOICE NUMBER

I 9 9 2 4 7 2 3

## BILLING INFORMATION

Date: 12-AUG-1999  
Project: AC23500  
P.O. No.:  
Account: PNX

Comments:

*Armenius*  
*Armenius*  
*Expatriate*

Billing: For analysis performed on  
Certificate A9924723

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

Please Remit Payments to:

**CHEMEX LABS, INC.**  
994 Glendale Ave., Unit 7,  
Sparks, NV USA 89431-5730

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	205 - Geochem ring to approx 150 mesh	2.10		
	294 - 4-7 Kg crush and split	2.75		
	3202 - Rock - save entire reject	0.50		
	TR-7	10.95		
	983 - Au ppb FA+AA	8.25		
	23 - Bi ppm	1.25	25.80	51.60

Total Cost \$	51.60
Client Discount ( 40% ) \$	-20.64
<b>TOTAL PAYABLE (U.S.) \$</b>	<b>30.96</b>

*47.06*



# Chemex Labs, Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
994 Glendale Ave., Unit 7,  
Sparks, NV, U.S.A. 89431-5730  
PHONE: 775-356-5395  
FAX: 775-355-0179

To: NEWMONT METALLURGICAL SERVICES

10101 E DRY CREEK RD.  
ENGLEWOOD, COLORADO  
80112

INVOICE NUMBER

I 9 9 2 4 7 2 4

## BILLING INFORMATION

Date: 12-AUG-1999  
Project: AC23500  
P.O. No.:  
Account: PNX

Comments:

*Armenius  
Claims*

Billing: For analysis performed on  
Certificate A9924724

*Expatriate*

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

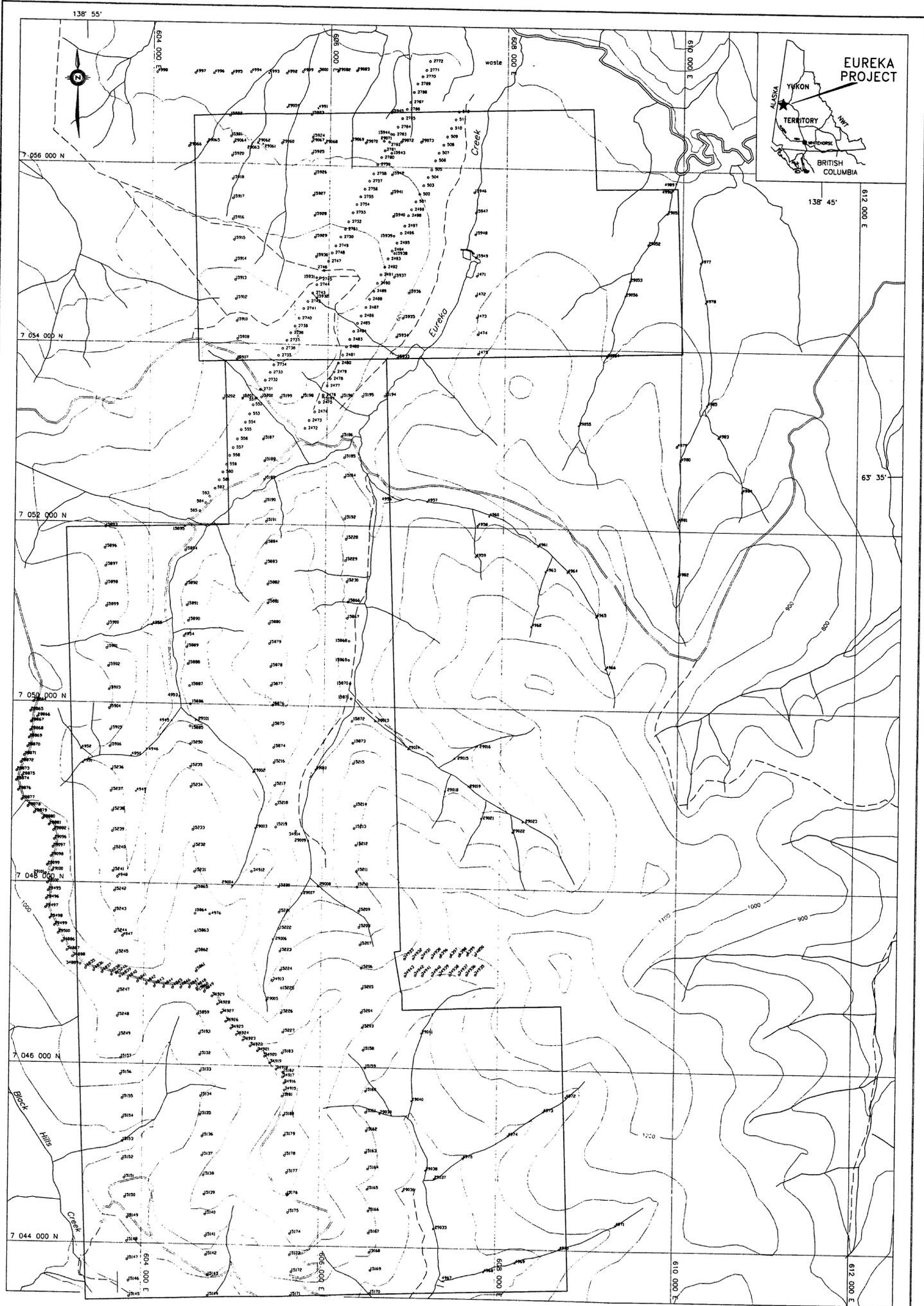
Please Remit Payments to:

**CHEMEX LABS, INC.**  
994 Glendale Ave., Unit 7,  
Sparks, NV USA 89431-5730

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
97	201 - Dry, sieve to -80 mesh	1.10		
	202 - save reject	0.75		
	TR-7	10.95		
	983 - Au pph FA+AA	8.25		
	23 - Bi ppm	1.25	22.30	2163.10

Total Cost \$	2163.10
Client Discount ( 40%) \$	<del>-865.24</del>
<b>TOTAL PAYABLE (U.S.) \$</b>	<b>1297.86</b>

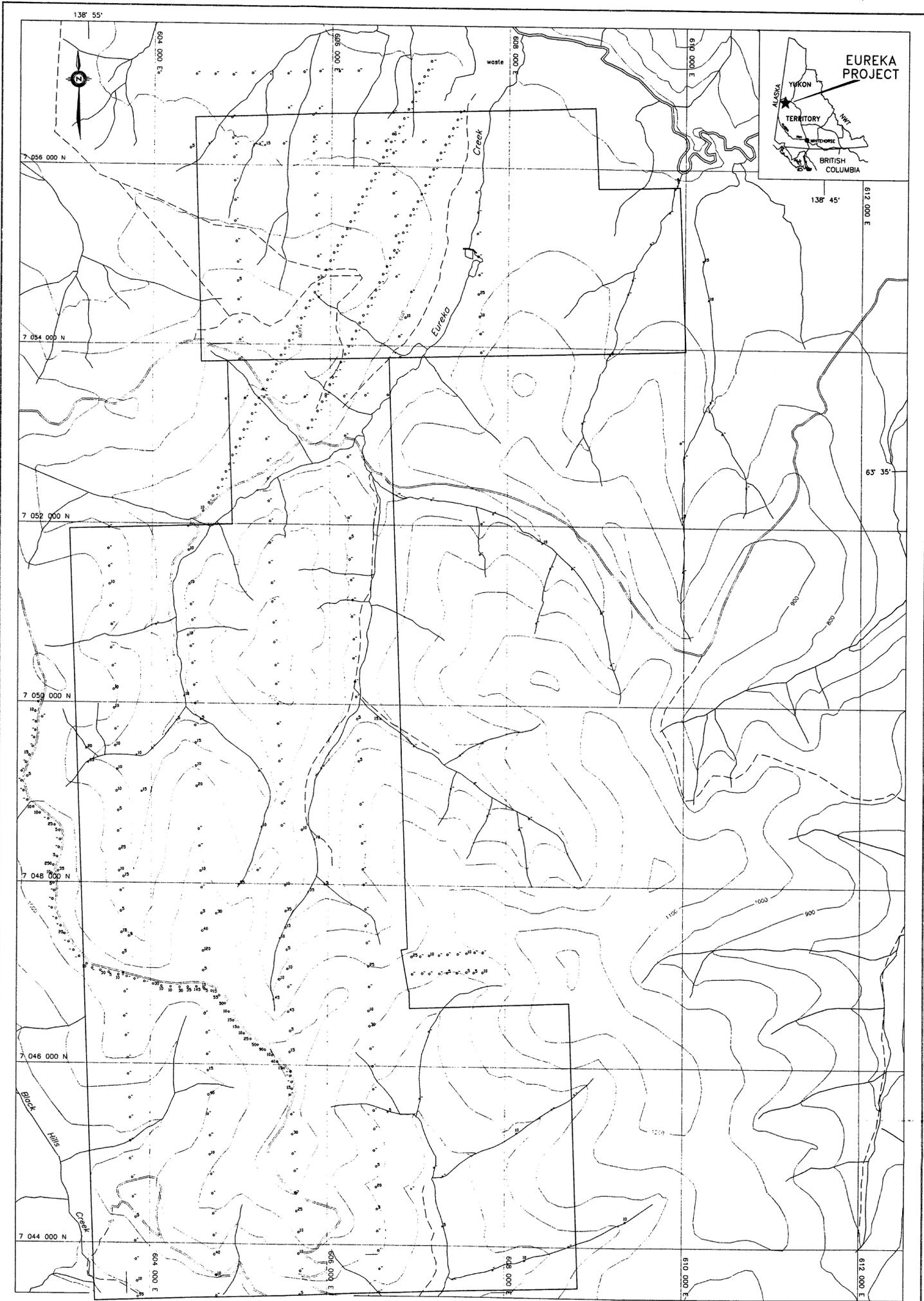
*1974.75*



• 15887 Soil sample location with sample number  
 • 15906 Silt sample location with sample number

TRUE NORTH  
 UTM NORTH  
 MAGN. NORTH  
 NTS 105-0/10  
 UTM ZONE 7  
 CONTOUR INTERVAL 100m

<b>EXPATRIATE RESOURCES LTD.</b> <b>NORDAC RESOURCES LTD.</b>	
FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED <b>SILT AND SOIL          SAMPLE LOCATION 094107</b> EUREKA PROJECT	
Scale 1:20,000 0 200 400 800 1200 1600 2000 m	
DRAWN/REVISED BY: AC FILE: ...EUREKA\AC098\F120-SL.DWG	PROJECT: EUREKA DATE: FEBRUARY, 2000



- Soil sample location with Au value in ppb
- Silt sample location with Au value in ppb

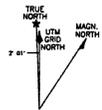
EXPATRIATE RESOURCES LTD.  
 NORDAC RESOURCES LTD.

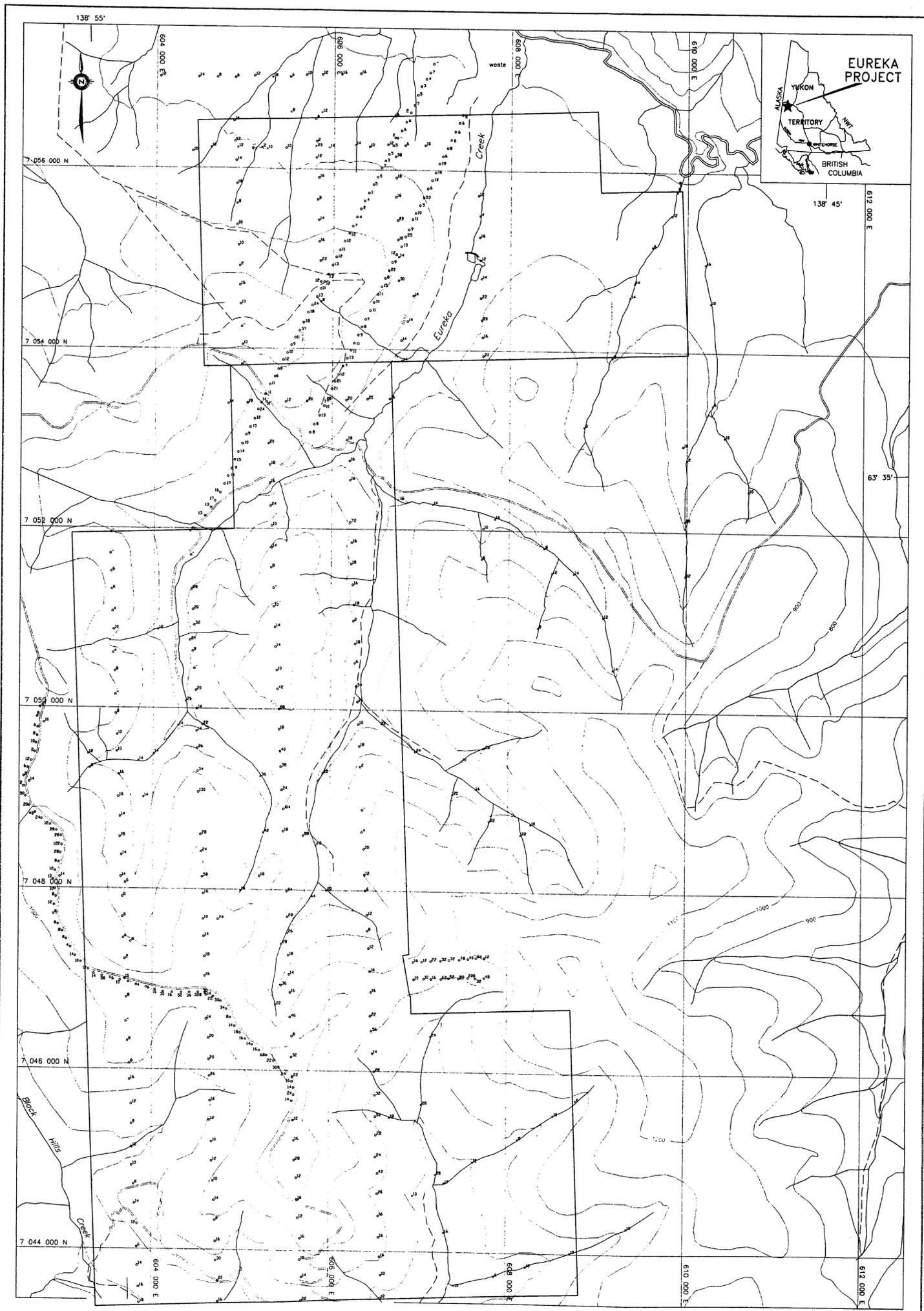
FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED 094107  
**GOLD GEOCHEMISTRY**  
 EUREKA PROJECT

Scale 1:20,000  
 0 200 400 800 1200 1600 2000 m

DRAWN/REVISED BY: AG	PROJECT: EUREKA
FILE: ...EUREKA\ACAD\99\EU20-AU.DWG	DATE: FEBRUARY, 2000

NTS 105-0/10  
 UTM ZONE 7  
 CONTOUR INTERVAL 100m





- \* Soil sample location with As value in ppm
- \* Silt sample location with As value in ppm

EXPATRIATE RESOURCES LTD.  
 NORDAC RESOURCES LTD.

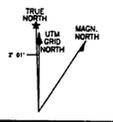
FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ARSENIC GEOCHEMISTRY**  
 EUREKA PROJECT **094107**

Scale 1:20,000  
 0 200 400 800 1200 1600 2000 m

DRAWN/REVISED BY: AG	PROJECT: EUREKA
FILE: ...EUREKA\ACAD99\EU20-AS.DWG	DATE: FEBRUARY, 2000

NTS 105-0/10  
 UTM ZONE 7  
 CONTOUR INTERVAL: 100m



138° 55'

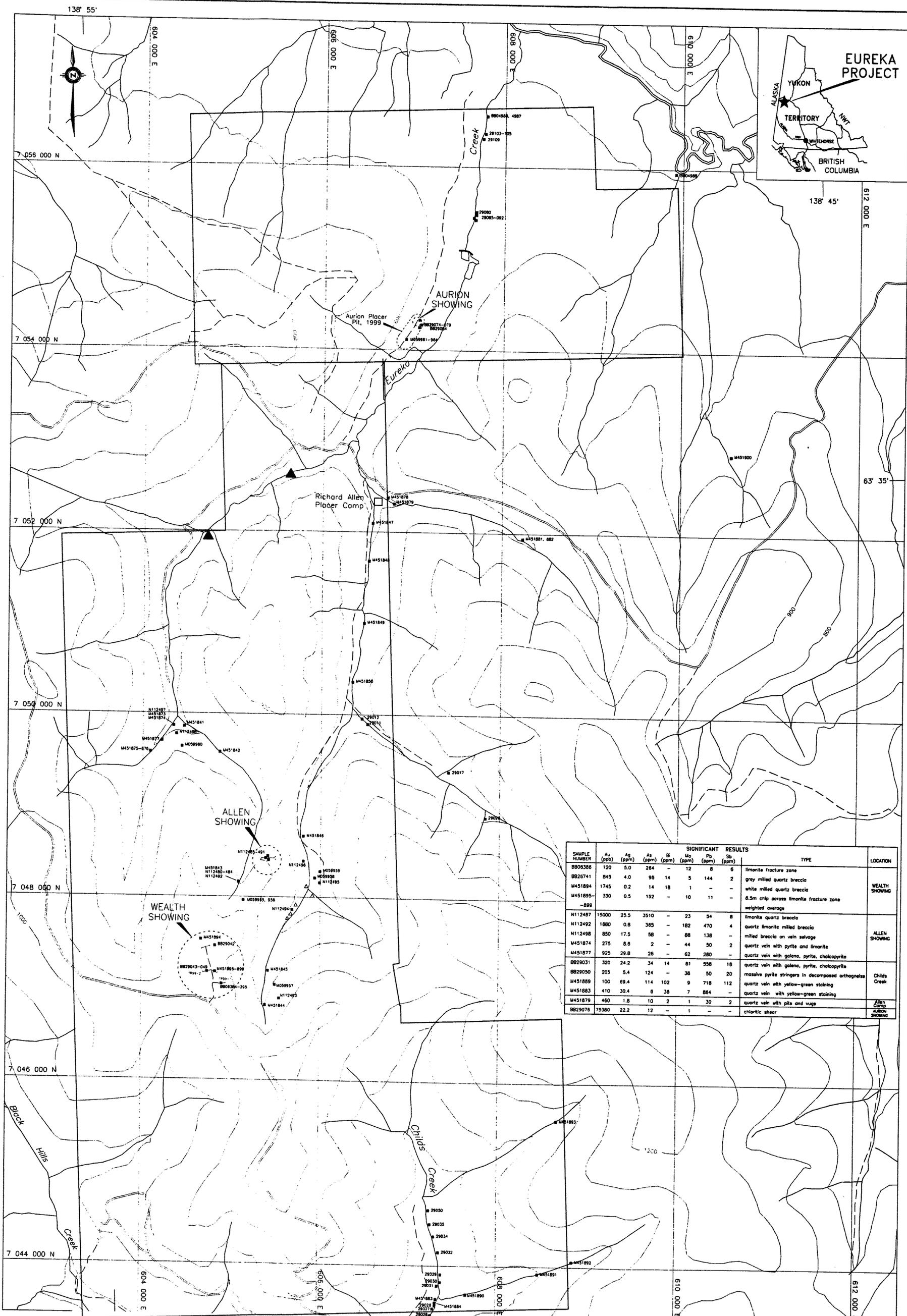
EUREKA PROJECT



138° 45'

612 000 E

63° 35'



SAMPLE NUMBER	SIGNIFICANT RESULTS							TYPE	LOCATION
	Au (g/t)	Ag (ppm)	As (ppm)	Bi (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)		
BB03386	120	5.0	264	-	12	8	6	limonite fracture zone	WEALTH SHOWING
BB26741	845	4.0	96	14	5	144	2	grey milled quartz breccia	
M451894	1745	0.2	14	18	1	-	-	white milled quartz breccia	
M451895	330	0.5	152	-	10	11	-	6.5m chip across limonite fracture zone	
-899	-	-	-	-	-	-	-	weighted average	
N112487	15000	25.5	3510	-	23	54	8	limonite quartz breccia	ALLEN SHOWING
N112492	1880	0.8	365	-	182	470	4	quartz limonite milled breccia	
N112498	850	17.5	58	-	88	138	-	milled breccia on vein selvage	
M451874	275	8.6	2	-	44	50	2	quartz vein with pyrite and limonite	
M451877	925	29.8	26	-	62	280	-	quartz vein with galena, pyrite, chalcocite	Childs Creek
BB29031	320	24.2	34	14	81	558	18	quartz vein with galena, pyrite, chalcocite	
BB29050	205	5.4	124	-	38	50	20	massive pyrite stringers in decomposed orthogneiss	
M451889	100	69.4	114	102	9	718	112	quartz vein with yellow-green staining	
M451883	410	30.4	6	36	7	864	-	quartz vein with yellow-green staining	
M451879	460	1.8	10	2	1	30	2	quartz vein with pits and vugs	Allen Camp
BB29076	75380	22.2	12	-	1	-	-	chloritic shear	Aurion Showing

LEGEND

- M451845 1999 rock sample location and sample number
- ALLEN SHOWING Area of gold mineralization
- - - Pre-existing bulldozer or excavator trench
- △ 1950 vintage placer shaft
- ▲ 1998 heavy mineral sample (placer fines)

TRUE NORTH  
UTM GRID NORTH  
MAGN. NORTH  
2' 01"

NTS 105-0/10  
UTM ZONE 7  
CONTOUR INTERVAL 100m

EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.

FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED 094107

**ROCK SAMPLE LOCATION**  
EUREKA PROJECT

Scale 1:20,000  
0 200 400 800 1200 1600 2000 m

DRAWN/REVISED BY: AG PROJECT: EUREKA  
FILE: ...EUREKA\ACAD09\EU20-ROX.DWG DATE: FEBRUARY, 2000